5ESS® Switch
Input Messages
5E14 and Later Software Releases
Document: 235-600-700
Issue Date: December 2003
Issue Number: 18.00C
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Product Line: 5ESS Switch
Title: Input Messages
Information Product Code: 235-600-700
Issue Number: 18.00C
Publication Date: December 2003

(1) Was the information product:

<table>
<thead>
<tr>
<th>Question</th>
<th>Yes</th>
<th>No</th>
<th>Not Applicable</th>
</tr>
</thead>
<tbody>
<tr>
<td>In the language of your choice?</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>In the desired media (paper, CD-ROM, etc.)?</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Available when you needed it?</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Please provide any additional comments:

(2) Please rate the effectiveness of the information product:

<table>
<thead>
<tr>
<th></th>
<th>Excellent</th>
<th>More than satisfactory</th>
<th>Satisfactory</th>
<th>Less than satisfactory</th>
<th>Unsatisfactory</th>
<th>Not applicable</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ease of use</td>
<td></td>
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<tr>
<td>Technical accuracy</td>
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<td>Quality of translation</td>
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<tr>
<td>Appearance</td>
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</tbody>
</table>

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(3) If you could change one thing about this information product, what would it be?


(4) Please write any other comments about this information product:


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Company/organization: _______________________________________

Telephone number: __________________________________________

Address: ___________________________________________________

____________________________________________________________

Email Address: ______________________________________________

Job function: ________________________________________________
1. INTRODUCTION

1.1 PURPOSE

The 5ESS® Switch Input Messages document describes the input messages (IMs) available for use on the 5ESS®
switch input channels. This document is a reference guide for 5ESS® switch support personnel. This document is
available in electronic media only.

The messages in this document and its updates represent complete documentation for the 5E14 and later software
releases.

The 5ESS® switch IMs are used to control, maintain, and monitor the switching system, including the processors,
peripherals, and other software. For example, the messages can direct the system to:

- Execute diagnostic and exercise programs and report the results.
- Perform tests and report the results.
- Report the status of various subsystems.
- Report traffic information.
- Enter translation information into memory.
- Restore units to service or remove units from service.

Because of the many available options, some IMs are complex. Before using these particular messages, become
familiar with conventions used in this document to describe them (refer to the User Guidelines section).

Some messages may adversely affect service. These messages show a WARNING appearing opposite the key
block. Use these messages only during periods of light traffic. Before using one of these messages, read thoroughly
the manual page containing the message description.

1.1.1 UPDATE INFORMATION

This document is being updated to include documentation for the 5E17(1) software release of the 5ESS® switch. It
also includes numerous enhancements AND responses to customer requests for more information.

The following messages/appendixes have been updated:

ALM:FAC-C
CFR:SPRMEM-E
EXC:PM-D
INH:FAC-C
INIT:FAC-C
OP:FAC-C
OP:ST-GQPHLNK
OP:ST-GQPHPIPE
OP:ST-SERV
RMV:GQPHPIPE
RST:GQPHPIPE
ST:NIPMP-E
SW:SERV
TRC:UTIL-C
TRC:UTIL-D
TRC:UTIL-E
TST:PATH-C

1.1.1.1 SUPPORTED SOFTWARE RELEASES
In accordance with the 5ESS® Switch Software Support Plan, the 5E13 software release is rated Discontinued Availability (DA) as of August 30, 2002. The information supporting 5E13 and earlier is being removed over time, instead of concurrently, from all documentation.

If you are supporting offices that use a software release prior to 5E14 and you have a need for the information that is being removed, retain the associated pages as they are removed from the paper documents, or retain the earlier copy of the CD-ROM.

The purpose of this documentation is to facilitate early dissemination of information. Its contents are subject to change pursuant to the general non-disclosure agreements between Lucent Technologies and 5ESS® switch owners for the purpose of planning. To the best of Lucent Technologies’s knowledge, the information contained in this document is accurate and complete as of the date of publication. HOWEVER, LUCENT TECHNOLOGIES EXPRESSLY DISCLAIMS ANY WARRANTY AS TO ACCURACY OR COMPLETENESS NOR DOES LUCENT TECHNOLOGIES ASSUME ANY RESPONSIBILITY FOR THE USE OF THE INFORMATION BY OTHERS. Lucent Technologies reserves the right to change or delete any portions of the document or to add information in the future.

1.1.1.2 TERMINOLOGY

1.1.1.2.1 Communication Module Name Change

Global Messaging Server (GMS) is the official name of the communication module, model 3 (CM3) hardware. Where the term GMS may be expected in software-influenced items such as input and output messages, master control center screens, and recent change/verify screens, the term CM3 may be found until such time as the term is changed in the software code.

1.1.1.2.2 Bellcore/Telcordia Name Change

As of March 18, 1999, Bellcore officially changed its name to Telcordia Technologies. Not all pages of this document are being reissued to reflect this change; instead, the pages will be reissued over time, as technical and other changes are required. Customers on standing order for this document may see that, on previous-issue pages, the Bellcore name is still exclusively used.

Customers receiving new orders for this document will see the Telcordia Technologies name used as appropriate throughout the document, and the Bellcore name used only to identify items that were produced under the Bellcore name. Exceptions may exist in software-influenced elements such as input/output messages, master control center screens, and recent change/verify screens. These elements will not be changed in this document until such time as they are changed in the software code. Document updates will not be made specifically to remove historical references to Bellcore.

1.1.1.2.3 5ESS®-2000 Switch Name Change

This 5ESS® switch document may contain references to the 5ESS® switch, the 5ESS-2000 switch, and the 5ESS® AnyMedia® Switch. The official name of the product has been changed back to the 5ESS® switch. The documentation will not be totally reissued to change these references. Instead, the changes will be made over time, as technical changes to the document are required. In the interim, assume that any reference to the 5ESS-2000 switch or the 5ESS® AnyMedia® Switch is also applicable to the 5ESS® switch. It should be noted that this name change may not have been carried forward into software-influenced items such as input and output messages, master control center screens, and recent change/verify screens.

1.1.1.2.4 Document Specific Terminology

National ISDN is an evolving platform in which new features will continue to be introduced for new revenue opportunities, improved operational efficiencies, and for support of specific applications. NI 1, NI 2, and NI 3
represent specific features as documented in Bellcore SRs 1937, 2120, and 2457. The industry is migrating to an additional terminology to more specifically denote the availability of National ISDN features: NI 95, NI 96, etc. A feature is included in a specific version (such as, NI 96) if it is available by the switch vendors by the first quarter of the year.

As a result of the World Telecommunications Standardization Conference held March 1-12, 1993, the International Telegraph and Telephone Consultative Committee (CCITT), no longer exists as an organization under the International Telecommunication Union (ITU). According to the ITU, the CCITT is now referred to as the International Telecommunication Union - Telecommunication Standardization Sector (ITU-TS).

For new and revised Recommendations issued by the ITU-TS, the term "CCITT Recommendation X.xxx" will be replaced by the "ITU-T Recommendation X.xxx" designation. For a transition period from 1993 to 1997, if the Recommendation had a previous CCITT designation, the new name will include "(formerly CCITT Recommendation X.xxx)". Names of existing CCITT Recommendations will not change unless revised.

1.1.1.3 HANDLE DATE AND TIME TRANSITION TO YEAR 2000

For any time-stamp data that occurs in 5ESS® switch operations after the time is transitioned to the year 2000 and beyond, the year 00 shall be interpreted as 2000 after 12/31/1999. The data (billing, log files, and so forth) shall continue to work even right after transition to the year 2000 from midnight 12/31 1999.

1.1.2 ORGANIZATION

The IM manual includes the:

Introduction - explains the purpose of the document and the organization of the material presented.

User Guidelines - contains information about the conventions used in documenting IMs. The structure and layout of IMs, as well as their naming and usage conventions, are discussed. This section also explains the on-line help feature, the input message edit and history function, the format notation used in this document, and the organization and content of the message descriptions contained in this document.

Acronym List - defines acronyms and abbreviations used in the IM manual.

Indexes - contains helpful indexes. These indexes may be used as guides for locating and selecting specific message descriptions in the IM manual.

• The Functional Index summarizes the purpose of each IM, categorizing the IM according to unit or function.

• The Topical Index shows the relation of IMs divided into topics (categories).

Appendixes - contains information that is referred to by two or more IM descriptions, such as listings of audits and traffic (TRFC) sections.

The rest of the IM manual contains message descriptions presented in alphabetical order by message ID.

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We are constantly striving to improve the quality and usability of this information product. Please use one of the following options to provide us with your comments:

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You may email your comments to comments@lucent.com

Please include with your comments the title, ordering number, issue number, and issue date of the information product, your complete mailing address, and your telephone number.

If you have questions or comments about the distribution of our information products, see Section 1.3, Distribution.

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- 1-317-322-6416 or fax to 1-317-322-6699; from outside the continental United States.

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For technical assistance, call Technical Support Services (TSS) at:

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1.5 SECURED/PROPRIETARY FEATURES

For all secured features, a right to use (RTU) fee must be paid before enabling information is provided. There may be additional proprietary documentation needed to interpret information regarding these features. Contact your Account Team Representative for additional information.

For a complete list of secured feature identifiers (SFID), refer to the Translation Guide (TG-5) manual, 235-080-100.

1.6 REFERENCES

This is a standard 5ESS® switch document that is also applicable to the Compact Digital Exchange (CDX) and Very Compact Digital Exchange (VCDX) switching systems. Information applicable to only CDX or VCDX may be found in the following documents:

235-120-010  Compact Digital Exchange (CDX) Reference Guide
235-120-020  Compact Digital Exchange (CDX) User’s Guide
Additional references are given as needed, within individual message descriptions. An "x" or "x"s in the last three positions of a release specific document number indicate the digits that change from release to release. Refer to 235-001-001, Documentation Description and Ordering Guide for the document number associated with each software release.
2. USER GUIDELINES

2.1 INTRODUCTION

This section explains the rules to which 5ESS® switch input messages (IMs) must conform, and the conventions that are used in this manual to show how messages are constructed.

The term messages refers to the commands that are used to control and monitor the 5ESS® switch system (IMs).

Each 5ESS® switch system is set to accept only one message language, human-machine language (MML). MML is the human interface language developed by the International Telecommunication Union - Telecommunication Standardization Sector (ITU-TS) (formerly CCITT).

2.2 MESSAGE DESCRIPTIONS

The message descriptions form the bulk of the IM manual. Message descriptions are documented on manual pages.

The term "manual page" refers to the description of an IM without regard to how many physical sheets of paper or screens are used to complete the description.

Each IM manual page consists of several elements that form the message description.

2.3 MANUAL PAGE - GENERAL PARTS

This section gives a general description of each part of a manual page.

2.3.1 Page Headers (Paper Only)

The header consists of two lines across the top of each manual page. The header on the inside of the manual page identifies the document number and the issue date. The header on the outside of the manual page shows the name of the document (for example, 5ESS® Switch Input Messages), and the message name.

2.3.2 Message Name

The message name is made up of the command code and parameter names from the message format omitting any variables and optional values and has a maximum length of 20 characters. This is used like a dictionary heading to give a general idea of placement in the manual.

2.3.3 Page Footers (Paper Only)

The footer on the inside of the page contains the issue number. The outside footer shows the message ID and page number. The message ID is explained with the key block items.

2.3.4 The Key Block

The key block is the block of text in the upper right corner of the manual page. The key block includes:

- ID
- RELEASE
- COMMAND GROUP
- APPLICATION

2.3.4.1 ID
The ID is the unique identifier of the IM. Every message ID is composed of two parts separated by a colon. The part to the left of the colon is the command code of the message. One or more parameter names from the format usually make up the remaining portion of the ID. If there is more than one parameter name to the right of the colon, these parameter names are separated by a hyphen. For example: EXC:SODD-RED-OP.

2.3.4.2 RELEASE

This was formerly labeled GENERIC. The 5ESS® switch software release or range of releases to which the message description applies. Here are some examples of possible software release entries:

<table>
<thead>
<tr>
<th>Release Type</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>5E14 only</td>
<td>The message description applies only to release 14.</td>
</tr>
<tr>
<td>5E14 and later</td>
<td>The message description applies to release 14 and to all later releases.</td>
</tr>
<tr>
<td>5E14 - 5E15</td>
<td>The message description applies to release 14 through release 15.</td>
</tr>
</tbody>
</table>

If changes from one release to another have affected a format, two or more separate manual pages are provided. Such a split is indicated by the last character of the message ID. If separate manual pages exist for the same message, the ID for the first manual page is followed by "-A", the second by "-B", and so forth.

Please note that this "dash-letter" suffix is dynamic depending on the number of software releases being supported and the number of versions of a message.

2.3.4.3 COMMAND GROUP

The command group identifies the message as a member of a group of input messages having a certain authority/priority level on the switch. This code can sometimes be changed by the service provider. What is documented on the manual page is the command group originally assigned by AT&T in the initial software release.

2.3.4.4 APPLICATION

This specifies the application to which the message pertains.

<table>
<thead>
<tr>
<th>Application Code</th>
<th>Explanation</th>
</tr>
</thead>
<tbody>
<tr>
<td>5</td>
<td>USA 5ESS® switch. May also apply to CDX, VCDX, or WNC. Refer to the help facility to verify applicability for these systems.</td>
</tr>
<tr>
<td>3B</td>
<td>administrative module (AM) software.</td>
</tr>
<tr>
<td>CNI</td>
<td>Common Network Interface.</td>
</tr>
<tr>
<td>CDX</td>
<td>Compact Digital Exchange only.</td>
</tr>
<tr>
<td>VCDX</td>
<td>Very Compact Digital Exchange. May also apply to the AEWNC. Refer to the help facility to verify applicability for this system.</td>
</tr>
<tr>
<td>AEWNC</td>
<td>Air ExtensionSM Wireless Network Controller only.</td>
</tr>
</tbody>
</table>

This implies that a listing such as "5,3B" means that this message applies to both USA 5ESS® switch and the administrative module software.

2.3.5 WARNING

Input messages that may adversely affect service are flagged with a warning message at the left side of the key block. An explanation of the warning is given in the PURPOSE section.

2.3.6 PURPOSE

This section of the manual page contains a brief explanation of the purpose of the message and includes the explanation of any associated warnings.
2.3.7 FORMAT

Message formats are a kind of notation that is used in this document to show the possible ways in which IMs can be constructed. Formats are described in greater detail in the MANUAL PAGE-SECTION DETAILS section of the User Guidelines.

2.3.8 EXPLANATION OF MESSAGE

This section of the manual page explains the meaning of the various parameter names, parameter values, and variables in the format.

2.3.9 SYSTEM RESPONSE

The system responds to IMs with an acknowledgment that appears one space after the terminating character of the IM on the TTY device. This will normally happen about five seconds after the message is entered.

These acknowledgments give information about the status of the message (for example, accepted, rejected, in progress, and so forth). Standard system responses are listed in the APP:RESPONSES appendix in the Appendixes section of the Input Messages manual. Standard craftshell responses are listed in Table 2-1 at the end of the User Guidelines. If a message has a response that is not standard, the response is explained in this section of the manual page.

2.3.10 REFERENCES

This section lists all related input and output messages, documentation references, Master Control Center (MCC) display pages and recent change views.

2.4 MANUAL PAGE - SECTION DETAILS

2.4.1 FORMAT Section

The format is the most important part of every manual page. The FORMAT shows the syntax of the message (that is, the way the message must be constructed so that the system will understand it correctly).

2.4.1.1 Example

Here is an example of how the FORMAT section of a typical manual page might look:

[1] OP:PMCR,TYPE=STAT[,HOURLY|,DAILY=a|,NOHOURLY|,NODAILY];

[2] OP:PMCR,TYPE=RET,INTVL=b,FORM=c;

[3] OP:PMCR,TYPE=DEM,FORM=c;

Many IMs can be input in more than one format. When appropriate, distinct formats are shown separately and given a number (in square brackets). In the example, there are three formats. (The OP:PMCR message requests various plant measurements detailing system performance statistics.)

Format 1 is a status report request. It reports hourly and/or daily data.

Format 2 is a retained report request. It reports hourly and/or daily data that was retained from a previous status report.

Format 3 is a demand report request. It reports up-to-the-hour data collected for the next daily report.
2.4.1.2 Format Notation

The message formats shown in this document may include one or more types of format notation that are not part of the message itself. The purpose of this notation is to show the choices the user has in entering the message.

<p>| | | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>[ ]</td>
<td>Brackets enclose optional entries. Optional entries may be included in the message or may be omitted.</td>
<td></td>
</tr>
<tr>
<td>{ }</td>
<td>Braces enclose two or more entries where one entry, but only one, must be included in the message.</td>
<td></td>
</tr>
<tr>
<td></td>
<td>OR bars separate a selection of entries enclosed by braces or brackets. One of the entries separated by OR bars, but only one, may be selected.</td>
<td></td>
</tr>
<tr>
<td>. . .</td>
<td>Vertical ellipsis marks (three vertical dots) following a format means that there may be more than one line when an OM is printed. These additional lines will conform to the same format, but may contain different data.</td>
<td></td>
</tr>
<tr>
<td>. . .</td>
<td>Three ellipsis marks with embedded spaces, either at the beginning of a line or at the end of a line, indicate that a format string is divided into multiple lines in the manual page. This is for documentation purposes only.</td>
<td></td>
</tr>
</tbody>
</table>

Remember that brackets, braces, OR bars, and ellipsis marks are never used when you are actually entering a message. They are only used in message formats to show you how a message must be constructed.

2.4.1.3 Notation Examples

The following examples illustrate the use of brackets, braces, OR bars, and ellipsis.

**ENTRY1 ENTRY2**
Both ENTRY1 and ENTRY2 must be used.

**ENTRY1** [ENTRY2]
Both entries are optional. Both, either, or neither may be used.

{ENTRY1|ENTRY2}
Either ENTRY1 or ENTRY2 must be used. Using both is not permitted.

[ENTRY1|ENTRY2]
Either ENTRY1 or ENTRY2, but not both, may be used. Both entries may be omitted.

[ENTRY1|ENTRY2|ENTRY3]
All three entries may be omitted; however, if any of these entries is used, your options are: ENTRY1 and ENTRY2 or ENTRY1 and ENTRY3. It is not permissible to use both ENTRY2 and ENTRY3.

[ENTRY1|ENTRY2|ENTRY3]
One of these three entries must be used, but it is not permissible to use more than one.

[ENTRY1]...[ENTRY1]
Signifies repetition of ENTRY1.

a b c
Signifies that there may be more than one line when an OM is printed.

2.4.1.4 Special Conventions

A special format convention governs cases where a colon is followed by a series of consecutive optional entries separated by commas. In these cases, the colon replaces the comma for the first optional entry that is actually used.

For example, DGN:MTC is documented with the following format:

DGN:MTC=a[:[RPT=b][,RAW][,UCL][,REX][,DEX]][,PH=c[&d]][,TLP][,CONT][,MT=e];

The following examples show the punctuation of this message when some (but not all) of the optional entries are chosen.

DGN:MTC=a;RPT=b,RAW,UCL,REX,PH=c,TLP;
DGN:MTC=a:RAW,UCL,REX,PH=c,TLP;
2.4.2 Message Syntax

The structure of messages consists of a series of fields that must be entered in a prescribed order. Fields and the entries that can be made in them are summarized in Table 2-2 of the User Guidelines.

This is the general syntax of a message:
\[ \text{command code:parameter block(s):...:[data parameters block(s)];} \]

IMs consist of two or more fields. The first field of an IM always contains a command code that identifies the action that the message is being used to accomplish. This command code is always followed by a colon.

The colon is followed by one or more parameter blocks. A parameter block consists of parameter names with associated parameter values. Parameter blocks are separated by colons. Parameter blocks identify units, functions, or data that the command code is acting upon.

A parameter name may appear by itself, or it may be followed by a single parameter value, a list of values, or a range of values. Parameter names are alphanumeric and must begin with a letter.

A parameter value is separated from a parameter name by an equal sign (=). Parameter values may be numeric or alphanumeric. When parameter values are shown in the FORMAT section of the manual page as lowercase letters, they represent variables that are replaced by specific data when the message is entered. If the value of the variable contains lowercase letters, the value must be enclosed in double quotes to retain the integrity of the lowercase letters.

Values in a list are separated by hyphens. Any two values that indicate the limits of a range are separated by two ampersands (&&), instead of a hyphen.

2.4.2.1 Syntax Examples

The following examples illustrate command codes and parameter blocks in various IMs.

<table>
<thead>
<tr>
<th>Command</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>CLR:UMEM;</td>
<td>Two fields: the command code (CLR), and one parameter block (UMEM).</td>
</tr>
<tr>
<td>ABT:TASK:TLWS=a;</td>
<td>Three fields: the command code (ABT), and two parameter blocks (TASK and TLWS=a)</td>
</tr>
<tr>
<td>UPD:GEN:BACKOUT:UCL;</td>
<td>Four fields: the command code (UPD), and three parameter blocks (GEN, BACKOUT, and UCL).</td>
</tr>
<tr>
<td>OP:STATUS,PROCESS,ALL;</td>
<td>Three fields: the command code (OP) and two parameter blocks (STATUS and PROCESS,ALL).</td>
</tr>
</tbody>
</table>

**NOTE:** A comma is used here instead of the colon separating STATUS and PROCESS,ALL.

2.4.2.2 Parameter Name and Parameter Value Examples

The following examples show instances of parameter names and parameter values. OP:STATUS,DN=a;

The purpose of this message is to output the current status history for a specified line. The IM has the command code of OP (for "output"), and the parameter names STATUS and DN in the next field. The parameter name DN has the parameter value 'a'. This value stands for the directory number of the line for which the status history is to be printed. If you were to type in this message, you would substitute an actual directory number for the value 'a'.

SET:CLK,DATE=a-b-c,TIME=d-e-f;

This message sets the system clock to the date and time that you specify. There are three names in the second field (CLK, DATE, and TIME). If you were to type in the command, you would enter the month for 'a', the day of the
month for 'b', and the year for 'c'. Similarly, you would enter the hour, minute, and second for values 'd', 'e', and 'f'.

CLR:ISOL,SM=a[&&b];

This message takes one or more switching modules (SMs) out of isolation. The parameter name SM has one or two values ('a' and 'b'). You must enter at least one. If you choose to enter only 'a', then you will enter only one SM number. If you choose the option, then you will enter a range of SM numbers. In this case, 'a' will stand for the lower limit of the range, and 'b' stands for the upper limit of the range. (Note the two ampersands that precede the 'b'. These ampersands indicate that a range is being specified.)

2.4.2.3 Comparison of Format Syntax and Actual Input Messages

The following examples show message format syntax as they might appear in manual pages and some examples of actual IMs that correspond to these formats. The FORMAT section of a manual page uses uppercase to indicate command codes and parameter names. Lowercase letters are used to indicate variables. In actual use at the user input terminal, all command codes and parameter names may be typed in lowercase.

<table>
<thead>
<tr>
<th>Syntax:</th>
<th>OP:STATUS,DN=a;</th>
<th>OP:STATUS,DN=19;</th>
<th>OP:status,dn=19</th>
</tr>
</thead>
<tbody>
<tr>
<td>or</td>
<td>SET:CLK,DATE=5,TIME=15;</td>
<td>set:clk,DATE=5,TIME=15;</td>
<td></td>
</tr>
<tr>
<td>Syntax:</td>
<td>CLR:ISOL,SM=a[&amp;&amp;b];</td>
<td>CLR:ISOL,SM=9;</td>
<td>CLR:isol,SM=9;</td>
</tr>
<tr>
<td>Examples:</td>
<td>CLR:ISOL,SM=5&amp;&amp;12;</td>
<td>clr:isol,sm=5&amp;&amp;12;</td>
<td>clr:isol,sm=9;</td>
</tr>
<tr>
<td>or</td>
<td>CLR:ISOL,SM=5;</td>
<td>clr:isol,sm=5;</td>
<td></td>
</tr>
<tr>
<td>Syntax:</td>
<td>OP:STATUS,PROCESS,{ALLTERMS</td>
<td>ALLKERNS</td>
<td>ALL},OPL=a;</td>
</tr>
<tr>
<td>or</td>
<td>OP:STATUS,PROCESS,ALL,OPL=10;</td>
<td>op:status,process,all,OPL=10;</td>
<td></td>
</tr>
<tr>
<td>Syntax:</td>
<td>IN:REMOTE,START,BSDIR=&quot;a&quot;,BLOCKS=b;</td>
<td>IN:REMOTE,START,BSDIR=&quot;/etc/bwm&quot;,BLOCKS=100;</td>
<td>in:remote,start,bsdir=&quot;/etc/bwm&quot;,blocks=100;</td>
</tr>
<tr>
<td>or</td>
<td>IN:REMOTE,START,BLOCKS=100;</td>
<td>in:remote,start,blocks=100;</td>
<td></td>
</tr>
</tbody>
</table>

2.4.2.4 Entering an IM

The craftshell accepts simplified IM syntax. Commas rather than colons may be used to separate the parameter blocks after the command code and first colon. All options may be specified as a single, comma-separated parameter block.

Parameter names may be typed in any order within a parameter block, but the parameter blocks must appear in the order specified in the manual page.

2.4.2.5 Syntax Combination Example

This example may be entered in a variety of format syntax combinations:
DGN:IOP=1:RPT=1,RAW,UCL:DATA,CONT,TLP;
Valid examples:

<table>
<thead>
<tr>
<th>IM Format</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>DGN:IOP=1,RPT=1,RAW,UCL:DATA,CONT,TLP;</td>
<td>(Colon between IOP and RPT has been changed to a comma.)</td>
</tr>
<tr>
<td>DGN:IOP=1,RAW,UCL,RPT=1:DATA,CONT,TLP;</td>
<td>(Order of keywords in the third block is rearranged.)</td>
</tr>
<tr>
<td>DGN:IOP=1,RAW,UCL,RPT=1:DATA,TLP,CONT;</td>
<td>(Order of keywords in the fourth block is rearranged.)</td>
</tr>
<tr>
<td>DGN:IOP=1,RAW,UCL,RPT=1,TLP,CONT;</td>
<td>(The &quot;:&quot; has been changed to a comma and the &quot;DATA,&quot; has been deleted.)</td>
</tr>
</tbody>
</table>

Invalid examples:

<table>
<thead>
<tr>
<th>IM Format</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>DGN,IOP=1,RAW,UCL,RPT=1,CONT,TLP;</td>
<td>(First colon has been changed to a comma.)</td>
</tr>
<tr>
<td>DGN:IOP=1,CONT,TLP,RAW,UCL,RPT=1;</td>
<td>(Order of blocks 3 and 4 reversed.)</td>
</tr>
<tr>
<td>DGN:IOP=1,RAW,UCL,CONT,TLP,RPT=1;</td>
<td>(Parameters of blocks 3 and 4 are intermixed.)</td>
</tr>
</tbody>
</table>

Because of the way that IMs are translated internally by the system, the message that is echoed to an output device may look different from the message originally entered at the console.

For example, the actual message: DGN:IOP=1,RPT=1,RAW,UCL:DATA,CONT,TLP; may be echoed to an output device from any of the following IM formats:

DGN:IOP=1,RPT=1,RAW,UCL,CONT,TLP;
DGN:IOP=1,CONT,TLP,RAW,UCL,RPT=1;
DGN:IOP=1,RAW,UCL,CONT,TLP,RPT=1;
DGN:IOP=1,RAW,UCL,RPT=1,CONT,TLP;
DGN:IOP=1,UCI,RAW,RPT=1,TL,CONT;

2.4.2.6 A Summary of Syntax Rules

A summary of rules for constructing IMs follows:

1. Block separators (:) may be typed as commas (,) except for the colon immediately following the command code.

2. Parameter names may be unordered within a parameter block, but the blocks themselves must remain ordered.

3. All numbers in IMs are assumed to be decimal unless you indicate otherwise by entering the appropriate code before the number. Valid codes are:
   - B' (binary)
   - O' (octal)
   - H' or X' (hexadecimal)
   - D' (decimal)

4. An entered message may consist of up to 255 spaces and characters that may extend over several lines of input.

5. The last character in a format line must be either an exclamation point, a semicolon, or a question mark.
• The semicolon (provided automatically by the return key) causes the message to be executed immediately as entered.

• The exclamation point is a continuation character.

• The question mark requests craftshell help.

(6) Within a message, the equal sign (=) is used as a separator between the parameter name and the parameter value. Spaces are not allowed between parameters.

(7) Double quotation marks (" ") around a parameter value are required when specifying a pathname to a file or file name or to maintain the integrity of lowercase letters.

(8) Typing a non-printable character in a string results in ?(BEL) (a question mark and a bell sound). The non-printable character remains in the string.

2.5 ROUTING INPUT MESSAGE RESPONSES TO THE RECEIVE-ONLY PRINTER (ROP)

An output message response to an IM request is always printed on the originating TTY. The output message may also print on the receive-only printer (ROP) and/or other I/O devices, depending on the message class associated with the output message. There may be message classes that have an "RSP" or "_RSP" suffix (shown in the key block section of an output message description). These types of messages print at the originating TTY terminal only, in "response" to the input request.

Output messages with an "RSP" or "_RSP" message class can be forced to print at the ROP by appending ",PRTROP" to the end of the IM request. The ",PRTROP" option is valid on any IM and does not adversely affect the routing of the output message, except to route it to the ROP.

2.6 HELP FEATURE

The 5ESS® switch has an IM HELP feature. This feature:

• Improves the understanding of error messages in cases where syntax or semantic errors are found in entered messages.

• Helps with IM syntax, including parameter value type and range.

• Prompts for entering IMs.

**NOTE:** Do not use HELP while the emergency action interface (EAI) page is displayed. Instead, press the NORM/DISP key to display a non-EAI page, then use HELP. If HELP is used while the EAI page is displayed, only the bottom few lines of the HELP message are displayed. The EAI page may also be left partially blank, but can be restored manually by pressing the EA/DISP key.

2.6.1 The Different Kinds of Help

There are two different ways to get help. One way is to type a portion of an IM, followed by a question mark. Another way is to type a question mark after an error message. Either of these will get you help.

There are two different types of help. The first type of help provides information about the syntax of IMs. The second type of help assists you in composing IMs by prompting choices between the possible entries.

2.6.2 Getting Help If You Know One or More Parameter Name
If you know one or more of the parameter names in a message, you can find out how many messages share that parameter, and what the syntax of these messages is.

To get information about the parameter names in an IM, enter part of the message (one or more parameter names). Type a question mark after the last parameter name.

**EXAMPLE 1**

If you enter:  
```
  op:pmcr?
```

The system responds:
```
The input matches 3 messages.  
Further errors may be revealed after a single  
message has been selected.  

1) OP:PMCR:TYPE=a,FORM=b;
2) OP:PMCR:TYPE=a,INTVL=b,FORM=c;
3) OP:PMCR:TYPE=a,INTVL=b,FORM=c;
   b is HOURLY, DAILY[=d], NOHOURLY or NODAILY;  
   choose one or omit
   append text, hit ? for more info.,  
   hit <CR> to execute, or hit <DEL> to reject
```

op:pmcr_

These are the only messages that begin with "OP:PMCR". Up to 128 messages can be displayed. The underline character in the last line of the example represents the position of your cursor after the system has displayed its response on your terminal. The system will wait about forty seconds for your response. If you do not respond within that time, then you are exited from the help facility, and you get the system prompt.

You may do one of the following:

- Enter a carriage return to execute, "OP:PMCR" which results in a missing parameter name errors message.
- Type the rest of a message [for example, ":type=dem,form=1" (for format 1)] and a carriage return to execute the message.
- Type a question mark to go to the second help level. You are then taken through the message a step at a time, and you are prompted for each entry.
- Press the "Delete" key. You leave the help facility and the message is not sent.

**NOTE:** If you type a question mark immediately after a parameter name (as in the example), you get information only about the parameter names in the message. You do not get information about parameter values.

You may also get help for parameter values in a message. To get help for parameter values in a message, type an equal sign (=) followed by a question mark after the parameter name.

**EXAMPLE 2**

If you enter:  
```
  op:conv,len=?
```

The system responds:
```
LEN=a-b-c-d-e-f  
a is an SM number between 1 and 192  
b is a number between 0 and 7  
c is a number between 0 and 9  
d is 0 or 1
```
The system lists the possible entries for the values ('a' through 'f') of parameter LEN of this message. The underline character represents the position of the cursor on the screen.

2.6.3 Getting Help for an Error Message

If you make a mistake when you enter an IM, the system responds with an error message. You can invoke the help facility after receiving such a message and get more information about how the message should be composed.

Here is an example of getting help after the system sends an error message:

**EXAMPLE 3**

If you enter:

```
op:hdwchk,clink;
```

The system responds:

```
?D - unexpected keyword CLINK
enter a new command OR ? for more information
```

If you now type a question mark, you will obtain the following system response:

```
unexpected keyword CLINK
The input matches 3 messages.

(Further errors maybe revealed after
a single message has been selected.)
```

1)  **OP:HDWCHK,a;**
    
    a is MMP=b-c, CMP=b-d, FPC=b, PPC=b,
    ONTC=b, MSCU=b, or CLNK=e-f-g-h;
    must choose one

2)  **OP:HDWCHK,CM;**

3)  **OP:HDWCHK,NCREF,a;**
    
    a is PRIM=b, SEC=b, XC=b; REF1=b, REF2=b,
    REF3=b, REF4=b, REF5=b, REF6=b, REF7=b,
    REF8=b; must choose one

```
enter a new command OR ? for more information
```

Typing the question mark after an error message has the same effect as typing a message fragment followed by a question mark. The same kind of help is provided. In this case, three messages begin with **OP:HDWCHK**. The unexpected keyword error is ignored.

2.6.4 The Second Level of Help: Prompting

Once you have gotten help as described in the previous section, you can get an additional kind of help: prompting. If you type a question mark again after receiving the help described in Examples 1, 2, and 3, you are prompted for each entry in the message until it is complete.

If you type a question mark in response to Example 2, you are prompted for each parameter value (a through f) for parameter LEN. In Examples 1 and 3, you are asked to choose one message from the list that is displayed. Then
you are prompted to complete the chosen message.

2.6.5 Ending the Help Session

You may exit the help facility at any time by pressing the “Delete” key. If you are being prompted, then you must press the “Delete” key once to end the prompting, and press it a second time to end the help session.

2.7 INPUT MESSAGE EDIT AND HISTORY

The input message edit and history function is designed to assist the user in retrieving and editing input messages already entered on a given terminal. It provides the following capabilities to the user:

- A record of input messages entered during a session.
- Retrieval by history buffer line number, by string, or by last input message entered.
- Edit of retrieved input messages.

2.7.1 Availability

The input message edit and history function is provided on the following terminal types:

- Maintenance Control Center (MCC)
- Supplementary Trunk and Line Workstation (STLWS)
- Switching Control Center (SCC)
- Recent Change and Verify (RC/V)

2.7.2 Related Input/Output Messages

The input message edit and history function includes four input messages and an output message. The input messages apply only to the terminal upon which they are entered. See the appropriate manual pages for more information.

<table>
<thead>
<tr>
<th>IM Message ID</th>
<th>Purpose</th>
</tr>
</thead>
<tbody>
<tr>
<td>ALW:HIST</td>
<td>allow history recording</td>
</tr>
<tr>
<td>INH:HIST</td>
<td>inhibit history recording</td>
</tr>
<tr>
<td>CLR:HIST</td>
<td>clear history buffer</td>
</tr>
<tr>
<td>OP:HIST</td>
<td>displays entries from the history buffer</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>OM Message ID</th>
<th>Purpose</th>
</tr>
</thead>
<tbody>
<tr>
<td>OP:HIST</td>
<td>response to the OP:HIST input message</td>
</tr>
</tbody>
</table>

2.7.3 History

Each terminal keeps a separate history buffer containing only the input messages entered at that terminal. Input messages are saved only when history recording is allowed. By default, history recording is allowed when a terminal comes into service.

If history recording is allowed and the input message is not a help input message, then the submitted input message is saved in the history buffer.

Function associated input messages that access help information and retrieve or edit input messages are not stored, regardless of the status of history recording.
2.7.3.1 Service Affecting or Sensitive Input Messages

It is recommended that the user inhibit history recording before entering any input messages that are sensitive or may cause interruptions or degradations of service. This prevents the service affecting input message from being accidentally retrieved and re-executed. After the sensitive or service affecting input message is executed, history recording can be allowed.

2.7.3.2 History Buffer Line Numbers

The history buffer can have a maximum of 200 entries at any given time. The buffer line numbers, however, begin at 1 and have a maximum range of 999.

Numbering of the buffer lines continues to 1000 even though only the last 200 input messages are in the buffer at any given time. The input message assigned to buffer line number 1000 triggers the following sequence:

- It is reassigned to line number 200.
- The last 199 entries already in the buffer are renumbered 1 through 199.
- The incrementation of buffer line numbers resumes with 201.

2.7.3.3 Clearing the History Buffer

It is recommended that the user clear out the history buffer at the end of each terminal session. This helps keep users from accessing input messages and corrupting the switch database by accident or intent. The buffer is always empty when a terminal comes into service.

2.7.4 Special Characters

The characters '#' and '^' are used for line editing control. The '#' character indicates that a retrieval process is to commence. The '^' indicates that a string follows. The string may be null.

2.7.5 Input Message Retrieval Procedure

A input message can be retrieved by one of the following methods:

<table>
<thead>
<tr>
<th>Code</th>
<th>Explanation</th>
</tr>
</thead>
<tbody>
<tr>
<td>#n&gt;</td>
<td>Retrieve by history buffer line number. This retrieves line number 'n' from the history buffer.</td>
</tr>
<tr>
<td>##</td>
<td>Retrieve last input message. This is a shorthand method to retrieve the most recently stored input message from the history buffer.</td>
</tr>
<tr>
<td>#^a</td>
<td>Retrieve by string. This retrieves the most recently stored input message that contains the string 'a' from the history buffer.</td>
</tr>
</tbody>
</table>

2.7.6 Command Modes

The modes associated with the input message edit and history function are:

- command entry mode
- edit mode

2.7.6.1 Command Entry mode

Command entry mode is the default mode. Input messages entered in command entry mode are stored in the
From command entry mode, edit mode is accessed by entering one of the special character sequences that indicate history buffer retrieval is being requested.

If the indicated buffer line number or string is found in the history buffer, the retrieved input message becomes the "pending" input message and the craftshell switches to edit mode. If an available input message is not identified, a "Command Unavailable" error message is output and the craftshell remains in command entry mode.

The user stays in edit mode until he/she either submits the pending input message for execution or cancels the edit session. After each edit, the latest version of the pending input message is displayed, along with the edit mode prompt (<<). At the edit mode prompt, the user can perform any of the following actions:

- enter '?' to request input message edit help information.
- enter (cr) (carriage return) to execute the pending input message.
- enter (del) (delete) to return to command entry mode, without executing the pending input message.
- retrieve another saved input message by any of the available methods.
- continue editing the pending input message.
- enter an input message.

To stay in edit mode, a pending input message must always be available. If, after an edit cycle is complete, a pending input message is not available, the craftshell returns to command entry mode.

If a carriage return or semi-colon (;) is entered at the edit prompt (<<), the pending input message is submitted to the craftshell for execution and:

- the edit session is terminated
- the craftshell returns to command entry mode
- the command entry mode prompt (<) is displayed.

If the input message entered is incorrect, an appropriate error message is displayed by the craftshell.

**2.7.7 Help**

If a lone question mark (?) is entered at the edit prompt (<<), a brief input message edit help message is displayed, followed by the latest version of the pending input message and the edit mode prompt (<<).

If the user enters an edited input message with invalid syntax, the input message edit help information is displayed after the "Command Not Recognized" error message.

**2.7.8 Line Editing**

Input message editing provides the capability to retrieve saved input messages and re-execute them. Retrieved input messages may be edited using substitutions, appends, or a combination of both before re-execution.
2.7.8.1 Editing Definitions

Append = A string is added to the end of the pending message.

Substitute = A substitution is performed only at the right-most occurrence of the specified oldstring within the pending input message. This permits the user to easily update just the last characters(s) of an input string.

Nuances = A null oldstring causes the replacement string to be appended to the end of the pending input message. A null newstring causes the oldstring to be deleted from the pending input message.

2.7.8.2 Retrieval/Editing Options

<table>
<thead>
<tr>
<th>Code</th>
<th>Explanation</th>
</tr>
</thead>
<tbody>
<tr>
<td>^newstring</td>
<td>The newstring text is appended to the end of the pending input message or the last input message entered.</td>
</tr>
<tr>
<td>^oldstring^newstring</td>
<td>Substitute the new string for the old string to the pending input message or the last input message entered.</td>
</tr>
<tr>
<td>#n^newstring</td>
<td>Retrieve line number from the history buffer (#n) and append the newstring to it.</td>
</tr>
<tr>
<td>###^newstring</td>
<td>Retrieve the most recently stored input message from the history buffer (##) and append the newstring to it.</td>
</tr>
<tr>
<td>#^searchstring^newstring</td>
<td>Retrieve the most recently stored input message containing the searchstring from the history buffer (#^searchstring) and append the newstring to it.</td>
</tr>
<tr>
<td>#n^oldstring^newstring</td>
<td>Retrieve line number from the history buffer (#n) and substitutes the last occurrence of the oldstring with the newstring.</td>
</tr>
<tr>
<td>###^oldstring^newstring</td>
<td>Retrieve the most recently stored input message from the history buffer (##) and substitute the last occurrence of the oldstring with the newstring.</td>
</tr>
<tr>
<td>#^searchstring^oldstring^newstring</td>
<td>Retrieve the most recently stored input message containing the searchstring from the history buffer (#^searchstring) and substitute the last occurrence of the oldstring with newstring.</td>
</tr>
</tbody>
</table>

2.7.9 Error Cases

The input message edit and history function provides specific error messages to assist the user when problems are encountered when retrieving or editing an input message and when invalid conditions for an OP:HIST input message exist.

For error conditions that occur during the retrieve or edit procedures, the following results are possible:

<table>
<thead>
<tr>
<th>Result</th>
<th>Explanation</th>
</tr>
</thead>
<tbody>
<tr>
<td>Remain in command entry mode.</td>
<td>If an attempt to retrieve a input message (and go into edit mode) from command entry mode fails, there is no pending input message available. An error message is output, followed by the command entry mode prompt (&lt;).</td>
</tr>
<tr>
<td>Remain in edit mode.</td>
<td>If there is a pending input message available, subsequent error conditions generates an error message followed by the pending input message and the edit mode prompt (&lt;&lt;). The pending input message is the result of the last successful retrieve or edit.</td>
</tr>
<tr>
<td>Go to edit mode.</td>
<td>If a combined retrieve and edit input message is entered at the command entry mode prompt (&lt;), it may succeed for the retrieve and fail for the edit. An error message is output (for the failed edit), followed by the pending input message (the successful retrieve), and the edit mode prompt (&lt;&lt;).</td>
</tr>
<tr>
<td>Go to command entry mode.</td>
<td>If a successful edit results in a null pending input message, the command entry mode prompt (&lt;) is output. No error message is output, since the edit was successful.</td>
</tr>
</tbody>
</table>

2.8 MCC DISPLAY PAGES

Master Control Center (MCC) display pages are used to perform maintenance and administrative functions for the
A **5ESS® switch**.

See document 235-105-110 System Maintenance Requirements and Tools for a further explanation of MCC display pages.

### 2.9 **5ESS® SWITCH DIRECTORY STRUCTURE AND PATHNAMES**

A **5ESS® switch** file system is a set of directories, ordinary files, and special device files.

- A directory is a collection of names of files and other directories.

- An ordinary file (also called a `flat file`) is a collection of ASCII text. It may consist of ASCII characters, divided into lines demarcated by the new-line character, or it may consist of binary code that will be copied into main memory when a program is executed.

- A special device file supports input/output activity on a physical device, such as a terminal, magnetic tape, or disk partition. A request to read or write a special device file results in activation of the associated device. However, there is not necessarily a one-to-one correspondence between physical devices in the system and special device files. A single device may have more than one special device file. For example, four different special device files are used to read the same magnetic tape with high or low density and with or without rewind. Most special device files are located in a directory named `/dev`.

The set of directories and files that comprise a file system is organized into a hierarchical tree structure, illustrated in Figure 2-1. In this example:

- the database, dev, etc, lib, tmp, and cft directories all descend from the "root" directory

- the database directory contains a number of ordinary files, including the ecd and appecd databases

- the dev directory contains a number of special device files

- the cft directory contains various subdirectories, which in turn contain ordinary files and additional subdirectories
In the 5ESS® switch system, the database, etc, and tmp directories are themselves the "root" directories of separate file systems that are mounted on the root file system during a system bootstrap. These four file systems (root, database, etc, and tmp) constitute the minimum set of file systems that are required for the 5ESS® switch system to function. Backup copies of these file systems may also be provided, in case one of the primary file systems becomes damaged in a way that would prevent the system from operating successfully. If the system is bootstrapped on the backup file systems, the names of the directories where they are mounted remains the same. Other file systems may also be mounted automatically during a bootstrap, or they may be mounted manually by using ALW:FSYS-MOUNT.

Every file and directory in the system is identified by a unique pathname that indicates its location in the hierarchical file system structure. Many 5ESS® switch IMs require the specification of a pathname. There are two types of pathnames that may be specified:

- Full pathnames begin with a slash (/). This is the name of the "root" directory of the root file system, and is followed by the name of the directory that is immediately beneath the "root" directory, followed by another slash, then the next directory name, and so forth, until the name of the specified file or directory is reached.

For example: FN="/user/a*/smo/test"
• Relative pathnames begin with the name of a directory or file at an arbitrary point in the hierarchy, with no preceding slash. Their specification is relative to the immediately preceding directory. This is sometimes referred to as the base directory.

Because they contain lower-case alphabetic characters and slashes, pathnames must always be surrounded by quotation marks (""") when entered in an IM.

2.10 BINARY-DECIMAL-HEXADECIMAL CONVERSIONS

Both input and output messages use values in hexadecimal (base 16), decimal (base 10), octal (base 8), and binary (base 2). To convert binary numbers to hexadecimal, do the following:

• Separate the binary number into groups of four, starting with the rightmost number.
• Convert each group of four into its hexadecimal equivalent. (See Table 2-5 of the User Guidelines.)
• Example:

| 001000011110 | Binary number |
| 0010 0001 1110 | Binary number in groups of four |
| 2 1 E | Hexadecimal equivalent |

To convert hexadecimal numbers to binary, perform the above procedure in reverse order.

To convert numbers from hexadecimal to decimal or vice-versa, refer to Table 2-4 of the User Guidelines. The left column contains hexadecimal numbers without the units digits. The units digits are shown in the first row.

<table>
<thead>
<tr>
<th><strong>Table 2-1</strong></th>
<th><strong>Craftshell Responses</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Response</strong></td>
<td><strong>Meaning</strong></td>
</tr>
<tr>
<td>?D - incorrect value 'r' - arg #s of t</td>
<td>The craftshell encountered an IM with an incorrect parameter value.</td>
</tr>
<tr>
<td></td>
<td>r = The incorrect parameter value.</td>
</tr>
<tr>
<td></td>
<td>s = The index number of the parameter value.</td>
</tr>
<tr>
<td></td>
<td>t = The corresponding parameter name.</td>
</tr>
<tr>
<td>?D - keyword a typed out of order</td>
<td>The craftshell encountered an IM with the order of parameter names from two parameter blocks reversed.</td>
</tr>
<tr>
<td></td>
<td>a = The first out-of-order parameter name that the craftshell encountered.</td>
</tr>
<tr>
<td>?D - missing keyword</td>
<td>The craftshell encountered an IM with a missing parameter name.</td>
</tr>
<tr>
<td>?D - unexpected keyword b</td>
<td>The craftshell encountered an IM with a parameter name that it does not recognize.</td>
</tr>
<tr>
<td></td>
<td>b = The parameter name that the craftshell does not recognize.</td>
</tr>
<tr>
<td>?E BAD IM CATALOG</td>
<td>The craftshell detected a problem with the IM catalog. The input request may or may not succeed. The catalog may be missing or corrupted, or UPD:IMCAT may not have been entered after a new catalog was installed. Refer to REPT:CFTSHL output</td>
</tr>
<tr>
<td>Error Message</td>
<td>Description</td>
</tr>
<tr>
<td>---------------</td>
<td>-------------</td>
</tr>
<tr>
<td>?E CFTSHL HANGUP RECEIVED</td>
<td>The craftshell terminated because it received a hang-up signal.</td>
</tr>
</tbody>
</table>
| ?E CFTSHL TERMINAL READING ERROR, ERRNO=c | The craftshell encountered an error while reading input from a terminal.  
   c = System error code (refer to the System Error Codes Appendix, APP:SYSERR, in the Output Messages manual). |
| ?E CFTSHL UNABLE TO FORK PROCESS d | The craftshell can not fork a new process to execute a command.  
   d = Full pathname of the process that was not executed because of the fork failure. |
| ?E COMMAND NOT RECOGNIZED | This Line Edit and History error can occur when a string (recall, append or substitute string) was not prepended with a caret (^), a recall command was entered that did not properly specify which stored command was being recalled or there were too many 'caret' characters in an edit command. |
| ?E - input matches multiple messages | The typed input request matches more than one input message in the IM catalog and the craftshell can not determine which message to execute. To obtain further information enter the help facility by terminating the input request with a question mark ('?'). If the desired input request can not be satisfied after accessing the help facility, refer to the TECHNICAL ASSISTANCE portion of the INTRODUCTION section of the Output Messages manual. |
| ?E NO COMMANDS ARE STORED | A Line Edit and History recall command was entered when there are no commands in the history buffer to recall. The No Commands Are Stored error takes precedence over the other Line Edit error messages. |
| ?E STRING NOT FOUND | This Line Edit and History error can occur for two reasons:  
   A substitute command was entered where the 'OLD' string is not present in the pending command.  
   A recall by string command was entered where the recall string is not present in any of the commands stored in the command history buffer. |
| ?E STRING TOO LONG | This Line Edit and History error occurs when an append or substitute command is entered that would result in a command longer than the legal limit of 256 characters. The append or substitute is rejected. |
| ?E - syntax error; invalid e | The craftshell encountered an IM syntax error.  
   e = The part of the IM that the craftshell identified as invalid. |
| ?E - syntax error; unexpected 'f' after g | The craftshell encountered an IM syntax error.  
   f = First invalid part of the IM.  
   g = Last valid part of the IM. |
| ?E - terminator must be 'q' | The craftshell encountered an improper IM terminator.  
   q = Proper IM terminator character. |
<p>| ?E UNABLE TO INITIATE COMMAND h | The craftshell is unable to execute an input request because it encountered a zero-length file. |</p>
<table>
<thead>
<tr>
<th>Error Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>±E UNABLE TO MATCH COMMAND i</td>
<td>An input command was entered that does not exist in the craftshell search directories. i = Full pathname of the non-existent command code</td>
</tr>
<tr>
<td>±E UNAVAILABLE COMMAND, CMD = j TO k</td>
<td>A Line Edit and History recall command was entered that identified a command that is out of the available range. To assist the user, the available range is printed as part of the error message. j = Lowest command number of available range k = Highest command number of available range</td>
</tr>
<tr>
<td>±E INVALID COMMAND</td>
<td>The craftshell is unable to execute an input request because it encountered a non-executable file or because it located a command directory but no executable file.</td>
</tr>
<tr>
<td>±V - invalid command code l</td>
<td>The craftshell encountered an IM with an invalid command code. l = The command code that the craftshell identified as invalid.</td>
</tr>
<tr>
<td>±G - FEATURE NOT AVAILABLE</td>
<td>The requested action failed because the feature required to process the request is not present in the switch or the given module.</td>
</tr>
<tr>
<td>±G - FILE OPEN FAILURE</td>
<td>An OP:HIST input command was entered but the output file could not be opened to print the information.</td>
</tr>
<tr>
<td>±G - NO COMMANDS ARE STORED</td>
<td>An OP:HIST input command was entered when there are no commands in the history buffer to output.</td>
</tr>
<tr>
<td>±G - RANGE UNAVAILABLE, CMD = m TO n</td>
<td>An OP:HIST input command was entered that specified a range (either explicitly or implicitly) that does not match any available stored command. To assist the user, the available range is printed as part of the error message. m = Lowest command number of available range n = Highest command number of available range</td>
</tr>
<tr>
<td>±G - SM o is isolated</td>
<td>The craftshell encountered an input request targeted for a switching module (SM) that is in the isolated state. o = Processor number of the isolated SM.</td>
</tr>
<tr>
<td>±G - SM p is not equipped</td>
<td>The craftshell encountered an input request targeted for an SM that is not equipped. p = Processor number of the unequipped SM.</td>
</tr>
<tr>
<td>±G - SYNTAX ERROR IN PREVIOUS MESSAGE</td>
<td>The EXC:PREV command was entered to execute a command that has a syntax error.</td>
</tr>
<tr>
<td>±L - UNABLE TO EXECUTE COMMAND</td>
<td>The craftshell is unable to communicate with another process to execute an input request. Retry request later.</td>
</tr>
<tr>
<td>±L - UNABLE TO SERVICE REQUEST</td>
<td>The craftshell is unable to execute an input request due to unavailable system resources such as system overload, excessive queue lengths, or a busy process. Retry request later.</td>
</tr>
</tbody>
</table>
### Table 2-2  Summary of Parts of a Message Format

<table>
<thead>
<tr>
<th>Term or Item</th>
<th>Definition</th>
</tr>
</thead>
<tbody>
<tr>
<td>Block of Parameters</td>
<td>Any field but first field of message. Contains parameter names and parameter values.</td>
</tr>
<tr>
<td>Braces { }</td>
<td>Enclose two or more entries, separated by OR bars, of which the user must input one, but only one. Not input as part of the message.</td>
</tr>
<tr>
<td>Brackets [ ]</td>
<td>Enclose optional entries. Not input as part of the message.</td>
</tr>
<tr>
<td>Command Code</td>
<td>First field of message. Contains command code.</td>
</tr>
<tr>
<td>Data Field</td>
<td>Optional blocks of parameters in messages.</td>
</tr>
<tr>
<td>Equal Sign =</td>
<td>Separates parameter name and parameter value.</td>
</tr>
<tr>
<td>Exclamation Point !</td>
<td>Message terminating character that does one of the following:</td>
</tr>
<tr>
<td></td>
<td>• In certain messages, causes the command to be executed at an appropriate break point.</td>
</tr>
<tr>
<td></td>
<td>• Causes the system to expect more data field parameters to follow on the next line of input.</td>
</tr>
<tr>
<td></td>
<td>• Causes the entered portion of the command to be executed as an immediate action (any ordinary message).</td>
</tr>
<tr>
<td></td>
<td>Also causes a special colon (:) prompt to be issued. The terminal will not print output messages until the normal semicolon (;) terminating character is entered.</td>
</tr>
<tr>
<td>Field</td>
<td>Basic structural unit of message. Variable length. Separated by colons.</td>
</tr>
<tr>
<td></td>
<td>There are at least two fields per message: command code and parameter block(s), in that order.</td>
</tr>
<tr>
<td>Keyword</td>
<td>The term keyword is often used in error messages to refer to a parameter name.</td>
</tr>
<tr>
<td>Message Length</td>
<td>Number of characters including spaces within the message (up to 255 characters). This may exceed one line.</td>
</tr>
<tr>
<td>Number Base</td>
<td>Default is decimal. Otherwise, numbers input must be preceded by B' (binary), O' (octal), or H' (hexadecimal).</td>
</tr>
<tr>
<td>OR bar</td>
<td>Separates entries within braces or brackets. One entry, but only one, must be selected. If selections are enclosed by braces, one entry must be input; if enclosed by brackets, the entry is optional. Not input as part of the message.</td>
</tr>
<tr>
<td>Parameter</td>
<td>Parameter name and its associated parameter values, if any. Two or more parameters within a block of parameters are separated by commas.</td>
</tr>
<tr>
<td>Parameter Name</td>
<td>Mnemonic identifier of a unit, function, or condition. May have parameter values associated with it. Error messages often refer to parameter names as keywords. Input as shown.</td>
</tr>
<tr>
<td>Parameter Value</td>
<td>Separated from parameter name by equal sign (=). Often represented by a variable in message format. Can be input as a single entry, as multiple entries in the form a-b-c, or as a range in the form x&amp;&amp;y.</td>
</tr>
<tr>
<td>Pathname</td>
<td>Starts with a slash (/), with every file and directory name separated by a slash. When entered, must be immediately preceded and followed by quotation marks (&quot;),.</td>
</tr>
<tr>
<td>Question Mark ?</td>
<td>Help request character. A question mark may follow a partial message or previously entered message that was erroneous. Typing ? after a help guidance message will cause it to enter prompting mode.</td>
</tr>
<tr>
<td>Quotation Marks &quot;&quot;</td>
<td>Enclose pathname of file, directory, or device. Also enclose any text strings entered. Input as shown.</td>
</tr>
<tr>
<td>Semicolon ;</td>
<td>Message terminating character that causes the command to be executed as an immediate action.</td>
</tr>
<tr>
<td>&amp;&amp;</td>
<td>Indicates a range in messages.</td>
</tr>
<tr>
<td>Variable</td>
<td>Shown as a lowercase letter in manual pages. Replace with user-supplied information.</td>
</tr>
<tr>
<td>Verb</td>
<td>Known as the command code. Shows what type of action is to be taken. May be an abbreviation of the command code.</td>
</tr>
</tbody>
</table>

### Table 2-3  Summary of Pathnames

<table>
<thead>
<tr>
<th>Pathname</th>
<th>Meaning</th>
</tr>
</thead>
<tbody>
<tr>
<td>/</td>
<td>Full pathname of the “root” directory of the root file system.</td>
</tr>
<tr>
<td>/data base</td>
<td>Full pathname of the data base directory which is located directly under <code>/</code>.</td>
</tr>
<tr>
<td>------------</td>
<td>---------------------------------------------------------------------------</td>
</tr>
<tr>
<td>/cft/shlcmds</td>
<td>Full pathname of the cmds directory, which is located under the shl directory, which is located under the cft directory, which is located directly under <code>/</code>.</td>
</tr>
<tr>
<td>/cft/shlcmds/INH/AUD</td>
<td>Full pathname of the AUD program which is executed by the INH/AUD message.</td>
</tr>
<tr>
<td>INH/AUD</td>
<td>Relative pathname of the same AUD program, relative to the /cft/shlcmds base directory.</td>
</tr>
<tr>
<td>OP/AUD</td>
<td>Relative pathname of the AUD program which is executed by the OP/AUD message, relative to the /cft/shlcmds base directory.</td>
</tr>
<tr>
<td>/dev/root</td>
<td>Full pathname of the special device file for the disk partition that contains the root file system (mounted as <code>/</code>).</td>
</tr>
<tr>
<td>/dev/broot</td>
<td>Full pathname of the special device file for the disk partition that contains the backup copy of the root file system (also mounted as <code>/</code>).</td>
</tr>
<tr>
<td>/dev/db</td>
<td>Full pathname of the special device file for the disk partition that contains the db file system (mounted as <code>/data base</code>).</td>
</tr>
<tr>
<td>/dev/bdb</td>
<td>Full pathname of the special device file for the disk partition that contains the backup copy of the db file system (also mounted as <code>/data base</code>).</td>
</tr>
<tr>
<td>/dev/mt00</td>
<td>Full pathname of the high density magnetic tape device that is attached to input/output processor (IOP) number 0 with an option 0 (rewinds a tape after reading from it or writing to it).</td>
</tr>
<tr>
<td>/dev/mt04</td>
<td>Full pathname of the high density magnetic tape device that is attached to IOP number 0 with an option 4 (does not rewind a tape after reading from it or writing to it).</td>
</tr>
<tr>
<td>/dev/mt08</td>
<td>Full pathname of the low density magnetic tape device that is attached to IOP number 0 with an option 8 (rewinds a tape after reading from it or writing to it).</td>
</tr>
<tr>
<td>/dev/mt0c</td>
<td>Full pathname of the low density magnetic tape device that is attached to IOP number 0 with an option c (does not rewind a tape after reading from it or writing to it).</td>
</tr>
<tr>
<td>/dev/mt10</td>
<td>Full pathname of the high density magnetic tape device that is attached to IOP number 1 with an option 0 (rewinds a tape after reading from it or writing to it).</td>
</tr>
<tr>
<td>/dev/mt14</td>
<td>Full pathname of the high density magnetic tape device that is attached to IOP number 1 with an option 4 (does not rewind a tape after reading from it or writing to it).</td>
</tr>
<tr>
<td>/dev/mt18</td>
<td>Full pathname of the low density magnetic tape device that is attached to IOP number 1 with an option 9 (rewinds a tape after reading from it or writing to it).</td>
</tr>
<tr>
<td>/dev/mt1c</td>
<td>Full pathname of the low density magnetic tape device that is attached to IOP number 1 with an option c (does not rewind a tape after reading from it or writing to it).</td>
</tr>
</tbody>
</table>

### Table 2-4  Binary-Octal-Decimal-Hexadecimal Conversions

<table>
<thead>
<tr>
<th>Binary</th>
<th>Octal</th>
<th>Decimal</th>
<th>Hexadecimal</th>
</tr>
</thead>
<tbody>
<tr>
<td>0000</td>
<td>000</td>
<td>00</td>
<td>0</td>
</tr>
<tr>
<td>0001</td>
<td>001</td>
<td>01</td>
<td>1</td>
</tr>
<tr>
<td>0010</td>
<td>010</td>
<td>02</td>
<td>2</td>
</tr>
<tr>
<td>0011</td>
<td>011</td>
<td>03</td>
<td>3</td>
</tr>
<tr>
<td>0100</td>
<td>010</td>
<td>04</td>
<td>4</td>
</tr>
<tr>
<td>0101</td>
<td>011</td>
<td>05</td>
<td>5</td>
</tr>
<tr>
<td>0110</td>
<td>020</td>
<td>10</td>
<td>8</td>
</tr>
<tr>
<td>0111</td>
<td>021</td>
<td>11</td>
<td>B</td>
</tr>
<tr>
<td>1000</td>
<td>040</td>
<td>16</td>
<td>E</td>
</tr>
<tr>
<td>1001</td>
<td>041</td>
<td>17</td>
<td>F</td>
</tr>
</tbody>
</table>

### Table 2-5  Hexadecimal-Decimal Conversion

<table>
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<tr>
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<th>B</th>
<th>C</th>
<th>D</th>
<th>E</th>
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<tbody>
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<td>157</td>
</tr>
</tbody>
</table>

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<p>| | | | | | | | | | | | | | | | |</p>
<table>
<thead>
<tr>
<th></th>
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<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>160</td>
<td>161</td>
<td>162</td>
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<td>164</td>
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<td>170</td>
<td>171</td>
<td>172</td>
<td>173</td>
<td>174</td>
</tr>
<tr>
<td>B</td>
<td>176</td>
<td>177</td>
<td>178</td>
<td>179</td>
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3. ACRONYMS
## ACRONYM

**Software Release:** 5E10 and later

### 1. ACRONYM LIST

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</tr>
<tr>
<td>UCI</td>
<td>universal control interface</td>
</tr>
<tr>
<td>UCIC</td>
<td>unequipped circuit identification code</td>
</tr>
<tr>
<td>UCL</td>
<td>unconditional</td>
</tr>
<tr>
<td>UCONF</td>
<td>universal conference</td>
</tr>
<tr>
<td>UCS</td>
<td>user control string</td>
</tr>
<tr>
<td>UCT</td>
<td>utility call trace</td>
</tr>
<tr>
<td>UF</td>
<td>update file</td>
</tr>
<tr>
<td>UID</td>
<td>utility identification</td>
</tr>
<tr>
<td>UMB</td>
<td>umbilical</td>
</tr>
<tr>
<td>UNA</td>
<td>unassigned</td>
</tr>
<tr>
<td>UNAV</td>
<td>unavailable</td>
</tr>
<tr>
<td>UNLD</td>
<td>unloader</td>
</tr>
<tr>
<td>UNP</td>
<td>uniform number plan</td>
</tr>
<tr>
<td>UO-CDM</td>
<td>update-only call disposition messages</td>
</tr>
<tr>
<td>UPD</td>
<td>update</td>
</tr>
<tr>
<td>UPNM</td>
<td>update name</td>
</tr>
<tr>
<td>UPPS</td>
<td>user-provided passed screening</td>
</tr>
<tr>
<td>UPT</td>
<td>universal pointer table</td>
</tr>
<tr>
<td>USPID</td>
<td>users service profile identification</td>
</tr>
<tr>
<td>UT</td>
<td>utilities</td>
</tr>
<tr>
<td>UTC</td>
<td>user control interface</td>
</tr>
<tr>
<td>UTD</td>
<td>universal tone decoder</td>
</tr>
<tr>
<td>UTD</td>
<td>universal tone detector</td>
</tr>
<tr>
<td>UTG</td>
<td>universal tone generator</td>
</tr>
<tr>
<td>UVAR</td>
<td>utility variable</td>
</tr>
<tr>
<td>VAT</td>
<td>voice access test</td>
</tr>
<tr>
<td>VCDX</td>
<td>very compact digital exchange</td>
</tr>
<tr>
<td>VCF</td>
<td>virtual card format</td>
</tr>
<tr>
<td>VCXO</td>
<td>voltage controlled oscillator</td>
</tr>
<tr>
<td>VDT</td>
<td>video display terminal</td>
</tr>
<tr>
<td>VFL</td>
<td>voice frequency link</td>
</tr>
<tr>
<td>VFY</td>
<td>verify</td>
</tr>
<tr>
<td>VISA</td>
<td>vocoder interrupt and serial access chip</td>
</tr>
<tr>
<td>VL</td>
<td>volume limit</td>
</tr>
<tr>
<td>VLMM</td>
<td>very large main memory</td>
</tr>
<tr>
<td>VM</td>
<td>voice message</td>
</tr>
<tr>
<td>VMS</td>
<td>voice message service</td>
</tr>
<tr>
<td>VPA</td>
<td>voice path assurance</td>
</tr>
<tr>
<td>VPATH</td>
<td>virtual path</td>
</tr>
<tr>
<td>VPI</td>
<td>virtual path identifier</td>
</tr>
<tr>
<td>VT</td>
<td>virtual tributary</td>
</tr>
<tr>
<td>VT1.5</td>
<td>virtual tributary 1.5 facility</td>
</tr>
<tr>
<td>VTT1FAC</td>
<td>virtual tributary level 1 facility</td>
</tr>
<tr>
<td>VTOC</td>
<td>volume table of contents</td>
</tr>
<tr>
<td>WATS</td>
<td>wide area telephone service</td>
</tr>
<tr>
<td>WBTGMEAS</td>
<td>wideband trunk group measurement</td>
</tr>
<tr>
<td>WNC</td>
<td>wireless network controller</td>
</tr>
<tr>
<td>XDB</td>
<td>External database</td>
</tr>
<tr>
<td>XPC</td>
<td>X.25 protocol controller</td>
</tr>
<tr>
<td>ZBTSI</td>
<td>zero byte time slot interchange</td>
</tr>
<tr>
<td>ZCS</td>
<td>zero code suppression</td>
</tr>
</tbody>
</table>
4. INDEXES
## 1. ACCESS INTERFACE UNIT

<table>
<thead>
<tr>
<th>Topic/Purpose</th>
<th>Message ID/ Software Release Range</th>
</tr>
</thead>
<tbody>
<tr>
<td>Requests that actions be aborted on an access interface unit common data and control controller (COMDAC).</td>
<td>ABT:AIUCOM 5E12 and later</td>
</tr>
<tr>
<td>Requests that actions be aborted on an access interface unit (AIU) line circuit (LC).</td>
<td>ABT:AIULC 5E12 and later</td>
</tr>
<tr>
<td>Requests that actions be aborted on an access interface unit (AIU) line pack (LP).</td>
<td>ABT:AIULP 5E12 and later</td>
</tr>
<tr>
<td>Requests that actions be aborted on an access interface unit (AIU) timeslot group (TSGRP).</td>
<td>ABT:AIUPIDB 5E12 and later</td>
</tr>
<tr>
<td>Requests that actions be aborted on an access interface unit (AIU) ring generator (RG).</td>
<td>ABT:AIURG 5E12 and later</td>
</tr>
<tr>
<td>Allows hardware checks on an access interface unit (AIU).</td>
<td>ALW:HDW-AIU 5E12 and later</td>
</tr>
<tr>
<td>Requests that diagnostics be executed on an access interface unit common data and control controller (COMDAC).</td>
<td>DGN:AIUCOM 5E12 and later</td>
</tr>
<tr>
<td>Requests that diagnostics be executed on an access interface unit (AIU) line circuit (LC).</td>
<td>DGN:AIULC 5E12 and later</td>
</tr>
<tr>
<td>Requests that diagnostics be executed on an access interface unit (AIU) line pack (LP).</td>
<td>DGN:AIULP 5E12 and later</td>
</tr>
<tr>
<td>Requests that diagnostics be executed on an access interface unit (AIU) ring generator (RG).</td>
<td>DGN:AIURG 5E12 and later</td>
</tr>
<tr>
<td>Requests that diagnostics be executed on an access interface unit (AIU) timeslot group (TSGRP).</td>
<td>DGN:AIUTSGRP 5E12 and later</td>
</tr>
<tr>
<td>Inhibits hardware checks on an access interface unit (AIU).</td>
<td>INH:HDW-AIU 5E12 and later</td>
</tr>
<tr>
<td>Requests that an access interface unit common data and control controller (COMDAC) be removed from service.</td>
<td>RMV:AIUCOM 5E12 and later</td>
</tr>
<tr>
<td>Requests that an access interface unit (AIU) line circuit (LC) be removed from service.</td>
<td>RMV:AIULC 5E12 and later</td>
</tr>
<tr>
<td>Requests that an access interface unit (AIU) line pack (LP) be removed from service.</td>
<td>RMV:AIULP 5E12 and later</td>
</tr>
<tr>
<td>Requests that an access interface unit (AIU) timeslot group (TSGRP) be removed from service.</td>
<td>RMV:AIUPIDB 5E12 and later</td>
</tr>
<tr>
<td>Requests that an access interface unit (AIU) ring generator (RG) be removed from service.</td>
<td>RMV:AIURG 5E12 and later</td>
</tr>
<tr>
<td>Requests that an access interface unit common data and control controller (COMDAC) be restored to service.</td>
<td>RST:AIUCOM 5E12 and later</td>
</tr>
<tr>
<td>Requests that an access interface unit (AIU) line circuit (LC) be restored to service.</td>
<td>RST:AIULC 5E12 and later</td>
</tr>
<tr>
<td>Requests that an access interface unit (AIU) line pack (LP) be restored to service.</td>
<td>RST:AIULP 5E12 and later</td>
</tr>
<tr>
<td>Requests that an access interface unit (AIU) timeslot group (TSGRP) be restored to service.</td>
<td>RST:AIUPIDB 5E12 and later</td>
</tr>
<tr>
<td>Requests that an access interface unit (AIU) ring generator (RG) be restored to service.</td>
<td>RST:AIURG 5E12 and later</td>
</tr>
<tr>
<td>Requests the actions be stopped on an access interface unit common data and control controller (COMDAC).</td>
<td>STP:AIUCOM 5E12 and later</td>
</tr>
<tr>
<td>Requests the actions be stopped on an access interface unit (AIU) line circuit (LC).</td>
<td>STP:AIULC 5E12 and later</td>
</tr>
<tr>
<td>Requests the actions be stopped on an access interface unit (AIU) line pack (LP).</td>
<td>STP:AIULP 5E12 and later</td>
</tr>
<tr>
<td>Requests the actions be stopped on an access interface unit (AIU) timeslot group (TSGRP).</td>
<td>STP:AIUPIDB 5E12 and later</td>
</tr>
<tr>
<td>Requests the actions be stopped on an access interface unit (AIU) ring generator (RG).</td>
<td>STP:AIURG 5E12 and later</td>
</tr>
</tbody>
</table>
# 1.1 Access Interface Unit Common Data And Control Circuit

<table>
<thead>
<tr>
<th>Topic/Purpose</th>
<th>Message ID/ Software Release Range</th>
</tr>
</thead>
<tbody>
<tr>
<td>Requests that the current switch on the unit specified be stopped.</td>
<td>STP:SW 5E12 and later</td>
</tr>
</tbody>
</table>

# 2. ADMINISTRATIVE MODULE

<table>
<thead>
<tr>
<th>Topic/Purpose</th>
<th>Message ID/ Software Release Range</th>
</tr>
</thead>
<tbody>
<tr>
<td>Allows the logging and processing of all administrative module (AM) computer error sources.</td>
<td>ALW:ERRCHK 5E12 and later</td>
</tr>
<tr>
<td>Requests that the logging and processing of administrative module (AM) error interrupts attached to the unit specified in the identification field be allowed.</td>
<td>ALW:ERRINT 5E12 and later</td>
</tr>
<tr>
<td>Requests that the logging and processing of errors specific to the pseudo-nodes representing the administrative module (AM) control unit (CU) communities be allowed.</td>
<td>ALW:ERRSRC 5E12 and later</td>
</tr>
<tr>
<td>Initiates the off-line boot procedure.</td>
<td>EXC:OFLBOOT 5E12 and later</td>
</tr>
<tr>
<td>Inhibits the logging and processing of all administrative module (AM) error sources.</td>
<td>INH:ERRCHK 5E12 and later</td>
</tr>
<tr>
<td>Request that the logging and processing of error interrupts attached to the administrative module (AM) unit specified in the identification field be inhibited.</td>
<td>INH:ERRINT 5E12 and later</td>
</tr>
<tr>
<td>Inhibits the logging and processing of errors specific to the pseudo-nodes representing the administrative module (AM) control unit (CU) communities.</td>
<td>INH:ERRSRC 5E12 and later</td>
</tr>
<tr>
<td>Requests output of configuration status information for administrative module (AM) hardware units.</td>
<td>OP:CFGSTAT-AM 5E12 and later</td>
</tr>
<tr>
<td>Requests a list of all currently unavailable administrative module (AM) hardware units.</td>
<td>OP:UNAV 5E12 and later</td>
</tr>
<tr>
<td>Requests a list of all currently unequipped administrative module (AM) hardware units.</td>
<td>OP:UNEQIP 5E12 and later</td>
</tr>
<tr>
<td>To stop the offline boot (OFLBOOT) procedure.</td>
<td>STOP:OFLBOOT 5E12 and later</td>
</tr>
<tr>
<td>To perform a call processing side switch.</td>
<td>SW:OFLBOOT 5E12 and later</td>
</tr>
</tbody>
</table>

# 3. ADMINISTRATIVE SERVICES MODULE

<table>
<thead>
<tr>
<th>Topic/Purpose</th>
<th>Message ID/ Software Release Range</th>
</tr>
</thead>
<tbody>
<tr>
<td>Requests that the active/standby state of the administrative service module (ASM) be switched (interchanged) when high availability ASM (HA-ASM) exists in an office.</td>
<td>SW:ASM 5E15 and later</td>
</tr>
</tbody>
</table>

# 4. ADVANCED SERVICES PLATFORM

<table>
<thead>
<tr>
<th>Topic/Purpose</th>
<th>Message ID/ Software Release Range</th>
</tr>
</thead>
<tbody>
<tr>
<td>Clears an advanced services platform (ASP) 0.1 test query parameter (or set of parameters) that has been set.</td>
<td>CLR:ASPTQ-A 5E12 only</td>
</tr>
<tr>
<td>Clears an advanced services platform (ASP) 0.1 test query parameter (or set of parameters) that has been set.</td>
<td>CLR:ASPTQ-B 5E13 only</td>
</tr>
<tr>
<td>Clears an advanced services platform (ASP) 0.1 test query parameter (or set of parameters) that has been set.</td>
<td>CLR:ASPTQ-C 5E14 only</td>
</tr>
<tr>
<td>Clears an advanced services platform (ASP) 0.1 test query parameter (or set of parameters) that has been set.</td>
<td>CLR:ASPTQ-D 5E15 and later</td>
</tr>
<tr>
<td>Provides a list of all currently active administrative module (AM) hardware units.</td>
<td>OP:ACT</td>
</tr>
<tr>
<td>Topic/Purpose</td>
<td>Message ID/ Software Release Range</td>
</tr>
<tr>
<td>--------------</td>
<td>-------------------------------------</td>
</tr>
<tr>
<td>Requests displaying the advanced services platform (ASP) 0.1 test query parameters associated with a specified message type.</td>
<td>OP:ASPTQ-A 5E12 and later</td>
</tr>
<tr>
<td>Requests displaying the advanced services platform (ASP) 0.1 test query parameters associated with a specified message type.</td>
<td>OP:ASPTQ-B 5E13 only</td>
</tr>
<tr>
<td>Requests displaying the advanced services platform (ASP) 0.1 test query parameters associated with a specified message type.</td>
<td>OP:ASPTQ-C 5E14 only</td>
</tr>
<tr>
<td>Requests displaying the advanced services platform (ASP) 0.1 test query parameters associated with a specified message type.</td>
<td>OP:ASPTQ-D 5E15 and later</td>
</tr>
<tr>
<td>Provides a list of all administrative module (AM) hardware units currently in the growth maintenance state.</td>
<td>OP:GROW 5E12 and later</td>
</tr>
<tr>
<td>Provides a list of all currently initializing administrative module (AM) hardware units.</td>
<td>OP:INIT 5E12 and later</td>
</tr>
<tr>
<td>Requests a list of all currently off-line administrative module (AM) hardware units.</td>
<td>OP:OFL 5E12 and later</td>
</tr>
<tr>
<td>Requests a list of all standby administrative module (AM) hardware units.</td>
<td>OP:STBY 5E12 and later</td>
</tr>
<tr>
<td>Set the value of a parameter for an advanced services platform (ASP) 0.1 test query message.</td>
<td>SET:ASPTQ-A 5E12 only</td>
</tr>
<tr>
<td>Set the value of a parameter for an advanced services platform (ASP) 0.1 test query message.</td>
<td>SET:ASPTQ-B 5E13 only</td>
</tr>
<tr>
<td>Set the value of a parameter for an advanced services platform (ASP) 0.1 test query message.</td>
<td>SET:ASPTQ-C 5E14 and later</td>
</tr>
<tr>
<td>Set the value of a parameter for an advanced services platform (ASP) 0.1 test query message.</td>
<td>SET:ASPTQ-D 5E15 only</td>
</tr>
<tr>
<td>Set the value of a parameter for an advanced services platform (ASP) 0.1 test query message.</td>
<td>SET:ASPTQ-E 5E16(1) and later</td>
</tr>
<tr>
<td>Requests that an R0 advanced services platform (ASP) test query verifying integrity be sent to the external service control point (SCP) database.</td>
<td>TST:ASP-A 5E12 - 5E13</td>
</tr>
<tr>
<td>Requests that an R0 advanced services platform (ASP) test query verifying integrity be sent to the external service control point (SCP) database.</td>
<td>TST:ASP-B 5E14 only</td>
</tr>
<tr>
<td>Requests that an R0 advanced services platform (ASP) test query verifying integrity be sent to the external service control point (SCP) database.</td>
<td>TST:ASP-C 5E15 and later</td>
</tr>
<tr>
<td>Requests sending an advanced services platform (ASP) 0.1 test message to the service control point (SCP).</td>
<td>TST:ASPTQ-A 5E12 only</td>
</tr>
<tr>
<td>Requests sending an advanced services platform (ASP) 0.1 test message to the service control point (SCP).</td>
<td>TST:ASPTQ-B 5E13 only</td>
</tr>
<tr>
<td>Requests sending an advanced services platform (ASP) 0.1 test message to the service control point (SCP).</td>
<td>TST:ASPTQ-C 5E14 only</td>
</tr>
<tr>
<td>Requests sending an advanced services platform (ASP) 0.1 test message to the service control point (SCP).</td>
<td>TST:ASPTQ-D 5E15 and later</td>
</tr>
<tr>
<td>Requests that the contents of files that are essential to the booting of the administrative module (AM) be verified.</td>
<td>VFY:FILE 5E12 and later</td>
</tr>
</tbody>
</table>

5. AIR EXTENSION

<table>
<thead>
<tr>
<th>Topic/Purpose</th>
<th>Message ID/ Software Release Range</th>
</tr>
</thead>
<tbody>
<tr>
<td>Requests that maintenance information be collected for an Air Extension™ wireless phone.</td>
<td>OP:WCPE 5E12 and later</td>
</tr>
<tr>
<td>Requests that the shared secret data (SSD) associated with an Air Extension™ wireless subscriber be updated.</td>
<td>UPD:SSD 5E12 and later</td>
</tr>
</tbody>
</table>

6. ALARMS

<table>
<thead>
<tr>
<th>Topic/Purpose</th>
<th>Message ID/ Software Release Range</th>
</tr>
</thead>
<tbody>
<tr>
<td>Requests that alarm reporting on a scan point be allowed, according to type.</td>
<td>ALW:ALM 5E12 and later</td>
</tr>
<tr>
<td>Requests a change to or adds alarm labels, levels, and repeatability status for office</td>
<td>CHG:ALM</td>
</tr>
</tbody>
</table>
assignable building/power or miscellaneous alarms. | 5E12 and later
---|---
Requests that the alarm indicators on the display terminals be cleared (retired), the exit pilot light alarm units and the audible alarms. | CLR:ALARMS
5E12 and later
Requests that the data delivery bits for the OP:ALM-ALL input message feature be cleared, unconditionally. | CLR:OP-ALM-ALL
5E12 and later
To allow traffic and clear the alarm for the user part specified by the input originating point code (OPC)/destination point code (DPC) pair. | CLR:UPART
5E16(1) and later
Requests that alarm reporting on a scan point be inhibited, according to type. | INH:ALM
5E12 and later
Requests alarm summary of either off-normal or all alarm scan points. | OP:ALM-A
5E12 - 5E13
Requests alarm summary of either off-normal or all alarm scan points. | OP:ALM-B
5E14 and later
Requests the output of the virtual path(s) (VPATHs), starting from a given near end community address (CA), that are in the asynchronous transfer mode (ATM) alarm state. | OP:ATMALM-A
5E12 - 5E15
Requests the output of the virtual path(s), starting from a given near end community address (CA), that are in the asynchronous transfer mode (ATM) alarm state. | OP:ATMALM-B
5E16(1) and later
Requests that the alarm retire mode (ALMMDE) be set to either automatic or manual. | SET:ALMMDE
5E12 and later
Requests that the reporting of all active alarms in the office in response to the OP:ALM-ALL input message be stopped. | STP:OP-ALM-ALL
5E12 and later
Requests that the audible and visual alarm reporting mechanism be tested. | TST:ALM
5E12 and later

### 6.1 Fan Alarm Scan Points

<table>
<thead>
<tr>
<th>Topic/Purpose</th>
<th>Message ID/ Software Release Range</th>
</tr>
</thead>
<tbody>
<tr>
<td>Requests that a remote reset of the administrative module (AM) fan alarm (FANALM) distribute point be performed.</td>
<td>CLR:FANALM-3B 5E12 and later</td>
</tr>
<tr>
<td>Requests that a fan alarm be cleared.</td>
<td>CLR:FANALM-A 5E12 - 5E14</td>
</tr>
<tr>
<td>Requests that a fan alarm be cleared.</td>
<td>CLR:FANALM-B 5E15 and later</td>
</tr>
<tr>
<td>Requests that exit pilot lamps (alarms) be extinguished.</td>
<td>CLR:LAMPS 5E12 and later</td>
</tr>
</tbody>
</table>

### 6.2 Alarm and Status Circuit

<table>
<thead>
<tr>
<th>Topic/Purpose</th>
<th>Message ID/ Software Release Range</th>
</tr>
</thead>
<tbody>
<tr>
<td>Requests that maintenance actions on the remote switching module (RSM), optical remote switching module (ORM), or the two-mile remote switching module (TRM) alarm and status circuit (ASC) be aborted.</td>
<td>ABT:ASC 5E12 and later</td>
</tr>
<tr>
<td>Requests that a multi-module remote switching module (RSM), optical remote switching module (ORM), or two-mile remote switching module (TRM) alarm and status circuit (ASC) be diagnosed to determine if it is in working order.</td>
<td>DGN:ASC 5E12 and later</td>
</tr>
<tr>
<td>Requests that maintenance exercises be performed on the remote switching module (RSM), optical remote switching module (ORM), or two-mile remote switching module (TRM) alarm and status circuit (ASC).</td>
<td>EX:ASC 5E12 and later</td>
</tr>
<tr>
<td>Requests that a remote switching module (RSM), optical remote switching module (ORM), or two-mile remote switching module (TRM) alarm and status circuit (ASC) be removed from service.</td>
<td>RMV:ASC 5E12 and later</td>
</tr>
<tr>
<td>Requests that a remote switching module (RSM), optical remote switching module (ORM), or two-mile remote switching module (TRM) alarm and status circuit (ASC) be restored to service.</td>
<td>RST:ASC 5E12 and later</td>
</tr>
<tr>
<td>Requests that maintenance actions on the remote switching module (RSM), optical remote switching module (ORM), or two-mile remote switching module (TRM) alarm and status circuit (ASC) be stopped.</td>
<td>STP:ASC 5E12 and later</td>
</tr>
</tbody>
</table>
### 7. ALTERNATE ROUTE CANCELLATION CONTROL

<table>
<thead>
<tr>
<th>Topic/Purpose</th>
<th>Message ID/ Software Release Range</th>
</tr>
</thead>
<tbody>
<tr>
<td>Clears one or all alternate route cancellation (ARC) controls of a given control type.</td>
<td>CLR:ARC 5E12 and later</td>
</tr>
<tr>
<td>Lists all alternate route cancellation (ARC) controls in the office.</td>
<td>OP:ARC 5E12 and later</td>
</tr>
<tr>
<td>Requests that an alternate route cancellation (ARC) control at an office be set or modified.</td>
<td>SET:ARC 5E12 and later</td>
</tr>
</tbody>
</table>

### 8. APPLICATION PROCESSES

<table>
<thead>
<tr>
<th>Topic/Purpose</th>
<th>Message ID/ Software Release Range</th>
</tr>
</thead>
<tbody>
<tr>
<td>Requests an administrative module (AM) initialization of an application process at the specified level.</td>
<td>INIT:AM-FPI-A 5E12 only</td>
</tr>
<tr>
<td>Requests an administrative module (AM) initialization of an application process at the specified level.</td>
<td>INIT:AM-FPI-B 5E13 and later</td>
</tr>
<tr>
<td>Requests an administrative module (AM) single process purge (SPP) initialization of a named application process running under either operational kernel process (OKP) or switch maintenance kernel process (SMKP).</td>
<td>INIT:AM-SPP-A 5E12 - 5E14</td>
</tr>
<tr>
<td>Requests an administrative module (AM) single process purge (SPP) initialization of a named application process running under either operational kernel process (OKP) or switch maintenance kernel process (SMKP).</td>
<td>INIT:AM-SPP-B 5E15 and later</td>
</tr>
<tr>
<td>Requests that switching modules (SM) be reconfigured or forced by sending administrative module intervention (AMI) messages to either a single SM, to a range of SMs, or broadcast to all SMs.</td>
<td>ORD:CPI 5E12 and later</td>
</tr>
</tbody>
</table>

### 9. ASYNCHRONOUS TRANSFER MODE

#### 9.1 Asynchronous Transfer Mode Packet Pipe Link

<table>
<thead>
<tr>
<th>Topic/Purpose</th>
<th>Message ID/ Software Release Range</th>
</tr>
</thead>
<tbody>
<tr>
<td>Requests that the manually set automatic protection switch (APS) state of an asynchronous transfer mode (ATM) packet pipe link (PSALNK) be cleared.</td>
<td>CLR:PSALNK 5E16(2) and later</td>
</tr>
<tr>
<td>Convert from a given asynchronous transfer mode (ATM) packet pipe link (PSALNK) to the associated protocol handlers (PHs) for ATM (PHA-2s) that service the individual channels of the ATM link.</td>
<td>OP:CONV-PSALNK 5E16(2) and later</td>
</tr>
<tr>
<td>Requests the output of the current link status and other information of a single asynchronous transfer mode (ATM) packet pipe link (PSALNK) or the output of the current status of a group of ATM links.</td>
<td>OP:ST-PSALNK 5E16(2) and later</td>
</tr>
<tr>
<td>Requests that the automatic protection switch (APS) state of an asynchronous transfer mode (ATM) packet pipe link (PSALNK) be set to a higher priority state.</td>
<td>SET:PSALNK 5E16(2) and later</td>
</tr>
<tr>
<td>Request that the active/standby states of an ATM packet pipe link (PSALNK) channels be switched.</td>
<td>SW:PSALNK 5E16(2) and later</td>
</tr>
</tbody>
</table>

### 10. AUDIT PROGRAMS

<table>
<thead>
<tr>
<th>Topic/Purpose</th>
<th>Message ID/ Software Release Range</th>
</tr>
</thead>
<tbody>
<tr>
<td>Requests that the routine execution of one or more audits controlled by the system integrity monitor (SIM) that were previously inhibited be allowed.</td>
<td>ALW:AUD 5E12 and later</td>
</tr>
<tr>
<td>Requests that a communication module processor (CMP) audit be allowed to execute automatically or an audit cycle to execute routinely on one CMP.</td>
<td>ALW:AUD-CMP 5E12 and later</td>
</tr>
<tr>
<td>Allows a kernel process environment audit to execute automatically or allows an audit cycle in the administrative module (AM) to execute routinely.</td>
<td>ALW:AUD-ENV 5E12 and later</td>
</tr>
<tr>
<td>Requests that either the full or incremental static office-dependent data (SODD) audit, which</td>
<td>ALW:AUD-SODD 5E12 and later</td>
</tr>
<tr>
<td>Requests</td>
<td>5E12 and later</td>
</tr>
<tr>
<td>------------------------------------------------------------------------</td>
<td>----------------</td>
</tr>
<tr>
<td>Requests that the central node control (CNC) audit be initiated.</td>
<td>AUD:CNC</td>
</tr>
<tr>
<td>Requests that the equipment configuration database (ECD) be audited.</td>
<td>AUD:ECD</td>
</tr>
<tr>
<td>Requests that the equipment configuration database manager (ECDMAN) audit of record ownership be run.</td>
<td>AUD:ECDOWN</td>
</tr>
<tr>
<td>Requests that a simple existence audit of files on the disks be run.</td>
<td>AUD:FILES</td>
</tr>
<tr>
<td>Requests that the resources of the file manager (FMGR) be audited.</td>
<td>AUD:FMGR</td>
</tr>
<tr>
<td>Requests that the file system block audit be run.</td>
<td>AUD:FSBLK</td>
</tr>
<tr>
<td>Requests that the file system compaction audit be run.</td>
<td>AUD:FSCMPT</td>
</tr>
<tr>
<td>Requests that the file system link audit be run.</td>
<td>AUD:FSLINK</td>
</tr>
<tr>
<td>To initiate the link status and band status audit.</td>
<td>AUD:lkbdst</td>
</tr>
<tr>
<td>Requests that the memory manager audits be run.</td>
<td>AUD:MMGR</td>
</tr>
<tr>
<td>Requests that the message buffer (MSGBUF) resources be audited.</td>
<td>AUD:MSGBUF</td>
</tr>
<tr>
<td>Requests that the internal data audits be run on the recent changeable tables.</td>
<td>AUD:NIDATA</td>
</tr>
<tr>
<td>To execute the NMDATA specific audit to monitor the integrity of network management dynamic data.</td>
<td>AUD:NMDATA</td>
</tr>
<tr>
<td>Requests that ring node (RN) state audits be initiated.</td>
<td>AUD:NODEST</td>
</tr>
<tr>
<td>Requests that the plant measurements system (PMS) database audit be run.</td>
<td>AUD:PMS</td>
</tr>
<tr>
<td>Audits the directly connected trunks (DCT) extended (DCTEXT), searching for suspended process creations (including forks) and terminations.</td>
<td>AUD:PROAD</td>
</tr>
<tr>
<td>Configure MHD0 and MHD1 to be the duplex boot disks.</td>
<td>CFR:DUPLEXDISKS</td>
</tr>
<tr>
<td>.P Format 1 requests the clearing of the full static office-dependent data (SODD) audit's schedule.</td>
<td>CLR:AUD</td>
</tr>
<tr>
<td>Requests that non-backed-up application recent changes be cleared from the administrative module (AM) and/or one or more switching modules (SMs) or a communication module processor (CMP) on a bootstrap (pump) of that processor.</td>
<td>CLR:BACKOUT-A</td>
</tr>
<tr>
<td>Requests that non-backed-up application recent changes be cleared from the administrative module (AM) and/or one or more switching modules (SMs) or a communication module processor (CMP) on a bootstrap (pump) of that processor.</td>
<td>CLR:BACKOUT-B</td>
</tr>
<tr>
<td>Format 1 restarts a full or incremental static office-dependent data (SODD) audit that was previously executing but was stopped for some reason, provided that the conditions permit it to be restarted.</td>
<td>EXC:AUD-SODD</td>
</tr>
<tr>
<td>Requests that control operations be performed on the remote access subsystem (REMACS) data audit, or requests the status of that subsystem.</td>
<td>EXC:REMACS</td>
</tr>
<tr>
<td>Provides the ability to exercise operations in the stand-by ring (ring1) on demand.</td>
<td>EXC:RG1AUD</td>
</tr>
<tr>
<td>Requests that the routine execution of one or more audits that are controlled by the system integrity monitor (SIM) be inhibited.</td>
<td>INH:AUD</td>
</tr>
<tr>
<td>Inhibits the automatic execution of a kernel process environment (OKP or SMKP) audit or the routine execution of the cycle in the administrative module (AM).</td>
<td>INH:AUD-ENV</td>
</tr>
<tr>
<td>Inhibits the automatic execution of an audit or the routine execution of the audit cycle in the switching module (SM) or range of SMs.</td>
<td>INH:AUD-SM</td>
</tr>
<tr>
<td>Requests that the execution of either the full or incremental static office-dependent data (SODD) audit be inhibited.</td>
<td>INH:AUD-SODD</td>
</tr>
<tr>
<td>Reports the status of one or more audits controlled by the system integrity monitor (SIM).</td>
<td>OP:AUD</td>
</tr>
<tr>
<td>Requests either the generation of a detailed error report of the errors found by a</td>
<td>OP:AUD-ERRLOG</td>
</tr>
</tbody>
</table>
previously-executed full, incremental or entity static office-dependent data (SODD) audit, a
detailed summary report of errors detected by one of the forementioned audits, or just a
summary of the number of errors found by one of the forementioned audits.

Requests that one of the following be printed: the execution status of the static
office-dependent data (SODD) audits; the full SODD audit's schedule; the status of the active
SODD audit(s).

Reports the error counts of one or more audits controlled by the system integrity monitor
(SIM).

Provides the ability to obtain status of a CNI Ring 1 Audit.

Requests a report of the status of a specified audit, all audits, or all inhibited audits for a
particular communication module processor (CMP) or range of CMPs.

Requests a report of the status of a specified audit, all audits, or all inhibited audits for a
particular communication module processor (CMP) or range of CMPs.

Requests the status of a specific audit, all audits or all inhibited audits for a particular kernel
process environment.

Requests the status of a specific audit, all audits or all inhibited audits for a particular kernel
process environment.

Requests a report of the status of a specific audit, all audits, or all inhibited audits for a
particular switching module (SM) or range of SMs.

Requests a report of the status of a specific audit, all audits, or all inhibited audits for a
particular switching module (SM) or range of SMs.

Requests the status of the full or incremental static office-dependent data (SODD) audit.

Requests a list of environments supporting the requested audit.

Schedules the day, time, and duration for the full static office-dependent data (SODD) audit.

Requests to set SODD Audit to run full, incremental or sub audit(s) during execution.

Requests that a currently active audit that is controlled by the administrative module (AM)
system integrity monitor (SIM) stops.

Requests that a currently active audit that is controlled by the administrative module (AM)
system integrity monitor (SIM) stops.

Requests the termination of an executing static office-dependent data (SODD) audit as
indicated with the parameter list.

### 11. AUTHORITY MANAGEMENT

<table>
<thead>
<tr>
<th>Topic/Purpose</th>
<th>Message ID/ Software Release Range</th>
</tr>
</thead>
</table>
| Adds a new person identity (IDENT) with its related password (PSSWD) to the person
  authority (PAUTH) database. | ADD:PAUTH 5E12 and later |
| This input message adds a command group or profile to the person-command group (PCGRP)
  relation for the given person identity (IDENT). | ADD:PCGRP 5E12 and later |
| Adds a new profile identity (IDENT) to the profile authority database (PROFL). | ADD:PROFL 5E12 and later |
| Adds a terminal identity (TERM) to the terminal authority (TAUTH) database. | ADD:TAUTH 5E12 and later |
| This command adds a command group or profile to the terminal-command group (TCGRP)
  relation for a given terminal identity (TERM). | ADD:TCGRP 5E12 and later |
| Changes the password for a given person identity in the person authority (PAUTH) database. | CHG:PAUTH 5E12 and later |
### 12. AUTOMATIC BACKUP

<table>
<thead>
<tr>
<th>Topic/Purpose</th>
<th>Message ID/Software Release Range</th>
</tr>
</thead>
<tbody>
<tr>
<td>Requests that previously inhibited automated system backups be allowed to execute.</td>
<td>ALW:AUTOBKUP 5E15 and later</td>
</tr>
<tr>
<td>Requests an automated system backup to be unscheduled.</td>
<td>CLR:BKUP 5E15 and later</td>
</tr>
<tr>
<td>Requests that all future automated system backup attempts be inhibited.</td>
<td>INH:AUTOBKUP 5E15 and later</td>
</tr>
<tr>
<td>Requests a new automated system backup to be scheduled or requests all previously scheduled backups to be rescheduled.</td>
<td>SCHED:BKUP 5E15 and later</td>
</tr>
<tr>
<td>Request a file to be created that specifies the options for an automated system backup.</td>
<td>SET:BKUP 5E15 and later</td>
</tr>
<tr>
<td>Requests that an automated system backup currently in progress be stopped.</td>
<td>STP:AUTOBKUP 5E15 and later</td>
</tr>
</tbody>
</table>

### 13. AUTOMATIC CALL GAPPING CONTROL

<table>
<thead>
<tr>
<th>Topic/Purpose</th>
<th>Message ID/Software Release Range</th>
</tr>
</thead>
<tbody>
<tr>
<td>Requests a list of up to 64 automatic call gapping (ACG) controls for the specified application, starting at the given control identifier.</td>
<td>OP:ACG 5E12 and later</td>
</tr>
</tbody>
</table>

### 14. AUTOMATIC CUSTOMER STATION REARRANGEMENT

<table>
<thead>
<tr>
<th>Topic/Purpose</th>
<th>Message ID/Software Release Range</th>
</tr>
</thead>
<tbody>
<tr>
<td>Requests that automatic customer station rearrangement (ACSR) requests be added or deleted from the ACSR queue.</td>
<td>ALW:ACSR 5E12 and later</td>
</tr>
<tr>
<td>Requests that one or all automatic customer station rearrangement (ACSR) requests be deleted from the ACSR queue.</td>
<td>DEL:ACSR 5E12 and later</td>
</tr>
</tbody>
</table>
15. AUTOMATIC LINE EVALUATION

<table>
<thead>
<tr>
<th>Topic/Purpose</th>
<th>Message ID/ Software Release Range</th>
</tr>
</thead>
<tbody>
<tr>
<td>Requests that the operation of automatic line evaluation (ALE) be allowed for the specified option.</td>
<td>ALW:ALE-A 5E12 only</td>
</tr>
<tr>
<td>Requests that the operation of automatic line evaluation (ALE) be allowed for the specified option.</td>
<td>ALW:ALE-B 5E13 - 5E15</td>
</tr>
<tr>
<td>Requests that the operation of automatic line evaluation (ALE) be allowed for the specified option.</td>
<td>ALW:ALE-C 5E16(1) and later</td>
</tr>
<tr>
<td>Requests that automatic line evaluation (ALE) provide performance monitoring error count information and protocol error histories on integrated services digital network (ISDN) protocol channels.</td>
<td>EXC:ALE-A 5E12 only</td>
</tr>
<tr>
<td>Requests that automatic line evaluation (ALE) provide performance monitoring error count information and protocol error histories on integrated services digital network (ISDN) protocol channels.</td>
<td>EXC:ALE-B 5E13 only</td>
</tr>
<tr>
<td>Requests that automatic line evaluation (ALE) provide performance monitoring error count information and protocol error histories on integrated services digital network (ISDN) protocol channels.</td>
<td>EXC:ALE-C 5E14 - 5E15</td>
</tr>
<tr>
<td>Requests that automatic line evaluation (ALE) provide performance monitoring error count information and protocol error histories on integrated services digital network (ISDN) protocol channels.</td>
<td>EXC:ALE-D 5E16(1) and later</td>
</tr>
<tr>
<td>Requests that a routine exercise (REX) and/or automatic line insulation test (ALIT) schedule be generated based on the equipment present.</td>
<td>EXC:SCHED 5E12 and later</td>
</tr>
<tr>
<td>Requests inhibition of the options utilized for the operation of the automatic line evaluation (ALE) system and protocol error record (PER) reporting and generation.</td>
<td>INH:ALE-A 5E12 only</td>
</tr>
<tr>
<td>Requests inhibition of the options utilized for the operation of the automatic line evaluation (ALE) system and protocol error record (PER) reporting and generation.</td>
<td>INH:ALE-B 5E13 - 5E15</td>
</tr>
<tr>
<td>Requests inhibition of the options utilized for the operation of the automatic line evaluation (ALE) system and protocol error record (PER) reporting and generation.</td>
<td>INH:ALE-C 5E16(1) and later</td>
</tr>
<tr>
<td>Requests the status of automatic line evaluation (ALE) system control parameters and resource usage.</td>
<td>OP:ALE-A 5E12 only</td>
</tr>
<tr>
<td>Requests the status of automatic line evaluation (ALE) system control parameters and resource usage.</td>
<td>OP:ALE-B 5E13 - 5E15</td>
</tr>
<tr>
<td>Requests the status of automatic line evaluation (ALE) system control parameters and resource usage.</td>
<td>OP:ALE-C 5E16(1) and later</td>
</tr>
<tr>
<td>Requests that the current automatic line evaluation (ALE) session be stopped.</td>
<td>STP:ALE 5E12 and later</td>
</tr>
</tbody>
</table>

16. AUTOMATIC LINE INSULATION TEST

<table>
<thead>
<tr>
<th>Topic/Purpose</th>
<th>Message ID/ Software Release Range</th>
</tr>
</thead>
<tbody>
<tr>
<td>Requests that actions on the automatic line insulation test (ALIT) circuit at the specified location be aborted.</td>
<td>ABT:ALIT 5E12 and later</td>
</tr>
<tr>
<td>Requests that an automatic line insulation test (ALIT) be diagnosed to determine whether it is in satisfactory working order.</td>
<td>DGN:ALIT 5E12 and later</td>
</tr>
<tr>
<td>Requests interactive diagnostics (exercises) of the automatic line insulation test (ALIT) unit.</td>
<td>EX:ALIT 5E12 and later</td>
</tr>
<tr>
<td>Requests that an automatic line insulation test (ALIT) circuit in a metallic service unit (MSU) be removed from service.</td>
<td>RMV:ALIT 5E12 and later</td>
</tr>
</tbody>
</table>
Requests that an automatic line insulation test (ALIT) board in a metallic service unit (MSU) be conditionally or unconditionally restored to service. **RST:ALIT** 5E12 and later

Requests that actions on the automatic line insulation test (ALIT) circuit at the specified location be stopped. **STP:ALIT** 5E12 and later

### 17. AUTOMATIC MAINTENANCE LIMIT

<table>
<thead>
<tr>
<th>Topic/Purpose</th>
<th>Message ID/ Software Release Range</th>
</tr>
</thead>
<tbody>
<tr>
<td>Requests that the number of out-of-service (OOS) trunks be printed in relation to the automatic maintenance limit (AML) for a specified trunk group or a list of all trunk groups whose outages have reached their AML.</td>
<td>OP:AML 5E12 and later</td>
</tr>
</tbody>
</table>

### 18. AUTOMATIC MESSAGE ACCOUNTING

<table>
<thead>
<tr>
<th>Topic/Purpose</th>
<th>Message ID/ Software Release Range</th>
</tr>
</thead>
<tbody>
<tr>
<td>Requests that the tape writing process be aborted.</td>
<td>AB1:AMATAPE 5E12 and later</td>
</tr>
<tr>
<td>Requests that automatic message accounting (AMA) automatic tape writing be allowed.</td>
<td>ALW:AMA-AUTOST 5E12 and later</td>
</tr>
<tr>
<td>Requests that automatic message accounting (AMA) teleprocessing sessions or tape writing sessions be allowed.</td>
<td>ALW:AMA-SESSION 5E12 and later</td>
</tr>
<tr>
<td>Requests that the printing of data related to an automatic message accounting irregularity (AMAIRR) be allowed when and if such an irregularity occurs.</td>
<td>ALW:AMAIRR 5E12 and later</td>
</tr>
<tr>
<td>Requests that the printing of data related to a lost automatic message accounting (AMALOST) record be allowed when and if such a loss occurs.</td>
<td>ALW:AMALOST 5E12 and later</td>
</tr>
<tr>
<td>Format 1 requests that the printing of an automatic message accounting (AMA) record be allowed on the ROP for a specific originating and/or terminating directory number (DN).</td>
<td>ALW:AMATRC 5E12 and later</td>
</tr>
<tr>
<td>Requests that the automatic message accounting (AMA) partitions on the offline moving head disk (MHD) be cleared during retrofits, disk growths, and updates, to ensure that all billing data recorded on the offline MHD is current.</td>
<td>CLR:AMA-MAPS 5E12 and later</td>
</tr>
<tr>
<td>Requests that the automatic message accounting (AMA) configuration files be converted from the previous software release to the new software release during retrofits, disk growths, or updates, to accommodate the new disk layouts.</td>
<td>CNVT:AMA-CONFIG 5E12 and later</td>
</tr>
<tr>
<td>Requests that primary or secondary automatic message accounting (AMA) data records be copied onto tape.</td>
<td>CPY:AMATAPE 5E12 and later</td>
</tr>
<tr>
<td>Requests that automatic message accounting (AMA) automatic tape writing sessions be inhibited.</td>
<td>INH:AMA-AUTOST 5E12 and later</td>
</tr>
<tr>
<td>Requests that all automatic message accounting (AMA) sessions be inhibited or the writing of AMA tapes be prevented.</td>
<td>INH:AMA-SESSION 5E12 and later</td>
</tr>
<tr>
<td>Inhibits the printing of data related to an automatic message accounting irregularity (AMAIRR).</td>
<td>INH:AMAIRR 5E12 and later</td>
</tr>
<tr>
<td>Requests that the printing of data related to lost automatic message accounting (AMALOST) records be stopped.</td>
<td>INH:AMALOST 5E12 and later</td>
</tr>
<tr>
<td>Format 1 requests that the printing of automatic message accounting (AMA) records be inhibited for a matching active trace directory number (DN) (that is, DN and PS option are equal).</td>
<td>INH:AMATRC 5E12 and later</td>
</tr>
<tr>
<td>Requests output of the automatic message accounting (AMA) office stream configuration.</td>
<td>OP:AMA 5E12 and later</td>
</tr>
<tr>
<td>Requests the current status of the automatic message accounting (AMA) configuration files.</td>
<td>OP:AMA-CONFIG 5E12 and later</td>
</tr>
<tr>
<td>Requests that the current state of the automatic message accounting (AMA) control file be obtained.</td>
<td>OP:AMA-CONTROLF 5E12 and later</td>
</tr>
<tr>
<td>Requests current automatic message accounting (AMA) disk space occupancy data.</td>
<td>OP:AMA-DISK 5E12 and later</td>
</tr>
<tr>
<td>Requests that the automatic message accounting (AMA) maintenance file be obtained.</td>
<td>OP:AMA-MAINT 5E12 and later</td>
</tr>
<tr>
<td>Requests the contents of the disk maps for all partitions and the contents of the global maps for each stream.</td>
<td>OP:AMA-MAPS 5E12 and later</td>
</tr>
</tbody>
</table>
Indicate which disk blocks correspond to a given block sequence number, and the automatic message accounting (AMA) partitions on which they are located.

OP:AMA-SEQ
5E12 and later

Requests a report of the current or most recent automatic message accounting (AMA) tape or teleprocessing session.

OP:AMA-SESSION
5E12 and later

Requests the printing of the automatic message accounting (AMA) record status in the administrative module (AM) buffer.

OP:AMA-STATUS
5E12 and later

Requests automatic message accounting (AMA) teleprocessing and tape summary data.

OP:AMA-SUMMARY
5E12 and later

Requests automatic message accounting (AMA) teleprocessing summary data that has been accumulated today.

OP:AMA-TELE
5E12 and later

Requests the current status of the automatic message accounting irregularity (AMAIRR) record reporting feature.

OP:AMAIRR
5E12 and later

Requests the current status of the automatic message accounting lost (AMALOST) record reporting feature.

OP:AMALOST
5E12 and later

Requests the current status of the automatic message accounting (AMA) record reporting feature AMATRC.

OP:AMATRC
5E12 and later

Requests that an automatic message accounting (AMA) partition be equipped or unequipped for either the ST1 or ST2 data stream.

SET:AMA-CONFIG
5E12 and later

Requests that one or two of the automatic message accounting (AMA) control file parameters be set.

SET:AMA-CONTROL
5E12 and later

Requests that the automatic message accounting (AMA) office stream configuration be set.

SET:AMA-STREAM
5E12 and later

Requests that the tape writing process be stopped.

STP:AMATAPE
5E12 and later

Requests that a particular tape drive be set to the automatic message accounting (AMA) function and that the tape on that tape drive be verified.

VFY:AMATAPE
5E12 and later

Requests that billing data be collected from the switching modules (SMs) and the billing data in the administrative module be written to disk prior to generic retrofit.

WRT:AMADATA
5E12 and later

### 18.1 Centralized Automatic Message Accounting Operator Number Identification

<table>
<thead>
<tr>
<th>Topic/Purpose</th>
<th>Message ID/ Software Release Range</th>
</tr>
</thead>
<tbody>
<tr>
<td>Requests that centralized automatic message accounting (CAMA) operator number identification (ONI) processing be allowed.</td>
<td>ALW:CAMAONI 5E12 and later</td>
</tr>
<tr>
<td>Inhibits centralized automatic message accounting (CAMA) operator number identification (ONI) processing.</td>
<td>INH:CAMAONI 5E12 and later</td>
</tr>
</tbody>
</table>

### 19. AUTOMATIC PROGRESSION TESTING

<table>
<thead>
<tr>
<th>Topic/Purpose</th>
<th>Message ID/ Software Release Range</th>
</tr>
</thead>
<tbody>
<tr>
<td>Displays the status of an automatic (trunk) progression test (APT) session.</td>
<td>OP:APT 5E12 and later</td>
</tr>
<tr>
<td>Schedules the time in which trunk automatic progression testing (APT) is to be run for a given 24-hour period.</td>
<td>SCHED:APT 5E12 and later</td>
</tr>
<tr>
<td>Requests that a manually or automatically scheduled automatic progression testing (APT) session that is currently executing be stopped.</td>
<td>STP:APT 5E12 and later</td>
</tr>
</tbody>
</table>

### 20. AUTOMATIC PROTECTION SWITCH

<table>
<thead>
<tr>
<th>Topic/Purpose</th>
<th>Message ID/ Software Release Range</th>
</tr>
</thead>
<tbody>
<tr>
<td>Requests that the manually set automatic protection switch (APS) state of an asynchronous transfer mode (ATM) packet pipe link (PSALNK) be cleared.</td>
<td>CLR:PSALNK 5E16(2) and later</td>
</tr>
<tr>
<td>Requests automatic protection switching (APS) status of optical carrier - level 3 (OC3) circuits for optical interface units (OIUs) in a switching module (SM) or a range of SMs.</td>
<td>OP:APSSTAT 5E16(1) and later</td>
</tr>
<tr>
<td>Requests that the automatic protection switch (APS) state of an asynchronous transfer mode (ATM) packet pipe link (PSALNK) be set to a higher priority state.</td>
<td>SET:PSALNK 5E16(2) and later</td>
</tr>
</tbody>
</table>
## 21. AUTOMATIC TRUNK TEST SCHEDULER

<table>
<thead>
<tr>
<th>Topic/Purpose</th>
<th>Message ID/ Software Release Range</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dumps the entries in the automatic trunk test scheduler (ATTS) schedule database which relate to a specified ATTS test schedule.</td>
<td>DUMP:ATDTA 5E12 and later</td>
</tr>
<tr>
<td>Retrieves scheduled trunk test data from automatic trunk test scheduler (ATTS) log files.</td>
<td>DUMP:ATLOG 5E12 and later</td>
</tr>
<tr>
<td>Dumps the entries in the automatic trunk test scheduler (ATTS) parameters database which relate to a specified ATTS test schedule.</td>
<td>DUMP:ATPRM 5E12 and later</td>
</tr>
<tr>
<td>Requests a report of the status of the specified automatic trunk test scheduler (ATTS) test schedule.</td>
<td>OP:ATTS 5E12 and later</td>
</tr>
<tr>
<td>Requests that records of the last successful office backup activities using GENBKUP (the automated office backup procedure) be printed.</td>
<td>OP:GENBKUP-LAST 5E12 and later</td>
</tr>
<tr>
<td>Requests that the automatic generic backup process be started.</td>
<td>RCV:M-GENBKUP 5E12 and later</td>
</tr>
<tr>
<td>Places a specified automatic trunk test scheduler (ATTS) test schedule in an operational state to enable the automatic execution of test sessions defined in that schedule.</td>
<td>ST:ATTS 5E12 and later</td>
</tr>
<tr>
<td>Disables the automatic execution of test sessions defined in a specified automatic trunk test scheduler (ATTS) test schedule.</td>
<td>STP:ATTS 5E12 and later</td>
</tr>
<tr>
<td>Requests that a billed number screening (BNS) query be sent to the billing validation application (BVA), the line information database (LIDB), or the LIDB alternate destination (LALT) to verify its operation.</td>
<td>TST:BNS 5E12 and later</td>
</tr>
<tr>
<td>Requests that a calling card (CCRD) query be sent using the billing validation application (BVA) interface, the line information database (LIDB) transaction capability application part (TCAP) interface, or to the LIDB alternate destination (LALT) using the LIDB TCAP interface to verify its operation.</td>
<td>TST:CCRD 5E12 and later</td>
</tr>
</tbody>
</table>

## 22. AUTOPLEX®

### 22.1 AUTOPLEX® mobile phone service

<table>
<thead>
<tr>
<th>Topic/Purpose</th>
<th>Message ID/ Software Release Range</th>
</tr>
</thead>
<tbody>
<tr>
<td>Requests translation information for an AUTOPLEX® mobile phone service (AMPS) facility, from AMPS facility identifier to its external facility circuit identifier and vice-versa.</td>
<td>OP:AFAC 5E15 and later</td>
</tr>
</tbody>
</table>

## 23. BACKUP

<table>
<thead>
<tr>
<th>Topic/Purpose</th>
<th>Message ID/ Software Release Range</th>
</tr>
</thead>
<tbody>
<tr>
<td>Requests the automated system backup schedule and/or content of backup option files to be displayed.</td>
<td>OP:BKUP 5E15 and later</td>
</tr>
</tbody>
</table>

## 24. BEARER INDEPENDENT CALL CONTROL

<table>
<thead>
<tr>
<th>Topic/Purpose</th>
<th>Message ID/ Software Release Range</th>
</tr>
</thead>
<tbody>
<tr>
<td>Allows automatic periodic execution of the common channel signaling (CCS) office-wide bearer independent call control (BICC) call instance code (CIC) query.</td>
<td>ALW:BICCCQ-A 5E15 only</td>
</tr>
<tr>
<td>Allows automatic periodic execution of the common channel signaling (CCS) office-wide bearer independent call control (BICC) call instance code (CIC) query.</td>
<td>ALW:BICCCQ-B 5E15 and later</td>
</tr>
<tr>
<td>The purpose of this command is to reset environment variables because of an abnormal termination of the EXC:BICCBMOVE input message.</td>
<td>CLR:BICCBMOVE 5E16(1) and later</td>
</tr>
<tr>
<td>Execute a BICC CIC block reallocation process.</td>
<td>EXC:BICCBMOVE 5E16(1) and later</td>
</tr>
<tr>
<td>Executes a bearer independent call control (BICC) call instance code (CIC) query (BQ) request.</td>
<td>EXC:BICCCQ 5E15 and later</td>
</tr>
<tr>
<td>Inhibits automatic periodic execution of the common channel signaling (CCS) office-wide</td>
<td>INH:BICCCQ</td>
</tr>
</tbody>
</table>
### bearer independent call control (BICC) call instance code (CIC) query

<table>
<thead>
<tr>
<th>Message ID</th>
<th>Software Release Range</th>
</tr>
</thead>
<tbody>
<tr>
<td>OP:BICC</td>
<td>5E15 and later</td>
</tr>
</tbody>
</table>

Requests the output of bearer independent call control (BICC) data matching specific characteristics.

<table>
<thead>
<tr>
<th>Message ID</th>
<th>Software Release Range</th>
</tr>
</thead>
<tbody>
<tr>
<td>OP:BICCBLK</td>
<td>5E16(1) and later</td>
</tr>
</tbody>
</table>

Requests the output of bearer-independent call control (BICC) call instance code (CIC) block for specific information.

<table>
<thead>
<tr>
<th>Message ID</th>
<th>Software Release Range</th>
</tr>
</thead>
<tbody>
<tr>
<td>OP:BICCBMOVE</td>
<td>5E16(1) and later</td>
</tr>
</tbody>
</table>

Requests the status of a Static Call Instance Code Allocation process.

<table>
<thead>
<tr>
<th>Message ID</th>
<th>Software Release Range</th>
</tr>
</thead>
<tbody>
<tr>
<td>OP:BICCCQ</td>
<td>5E15 and later</td>
</tr>
</tbody>
</table>

Determines whether the common channel signaling (CCS) automatic bearer independent call control (BICC) call instance code (CIC) query for CCS System 7 (CCS7) trunks is inhibited or allowed for the entire office, and the BICC CIC query start time.

<table>
<thead>
<tr>
<th>Message ID</th>
<th>Software Release Range</th>
</tr>
</thead>
<tbody>
<tr>
<td>RMV:BICCCADN</td>
<td>5E16(1) and later</td>
</tr>
</tbody>
</table>

Requests the removal of a single bearer-independent call control (BICC) block from service and the placing of all the call instance codes (CICs) of the specified block into the circuit administration (CADN) out-of-service (OOS) status.

<table>
<thead>
<tr>
<th>Message ID</th>
<th>Software Release Range</th>
</tr>
</thead>
<tbody>
<tr>
<td>RST:BICCCADN</td>
<td>5E16(1) and later</td>
</tr>
</tbody>
</table>

Requests the restoration of a single bearer-independent call control (BICC) block to service and the removal of all the call instance codes (CICs) of the specified block from the circuit administration (CADN) out-of-service (OOS) list and their restoration to the in-service (IS) state.

<table>
<thead>
<tr>
<th>Message ID</th>
<th>Software Release Range</th>
</tr>
</thead>
<tbody>
<tr>
<td>SND:BICCMMSG</td>
<td>5E15 and later</td>
</tr>
</tbody>
</table>

Requests the removal of a single bearer-independant call control (BICC) block from service and the placing of all the call instance codes (CICs) of the specified block into the circuit administration (CADN) out-of-service (OOS) status.

<table>
<thead>
<tr>
<th>Message ID</th>
<th>Software Release Range</th>
</tr>
</thead>
<tbody>
<tr>
<td>STP:BICC</td>
<td>5E15 and later</td>
</tr>
</tbody>
</table>

Requests that the processing and output of the bearer independant call control (BICC) data request or task, OP:BICC, be stopped.

<table>
<thead>
<tr>
<th>Message ID</th>
<th>Software Release Range</th>
</tr>
</thead>
<tbody>
<tr>
<td>STP:BICCBMOVE</td>
<td>5E16(1) and later</td>
</tr>
</tbody>
</table>

This request will stop further execution of EXC:BICCBMOVE.

<table>
<thead>
<tr>
<th>Message ID</th>
<th>Software Release Range</th>
</tr>
</thead>
<tbody>
<tr>
<td>STP:BICCCQ</td>
<td>5E15 and later</td>
</tr>
</tbody>
</table>

Requests that the active bearer independent call control (BICC) call instance code (CIC) query be stopped.

### 25. BILLING

<table>
<thead>
<tr>
<th>Topic/Purpose</th>
<th>Message ID</th>
<th>Software Release Range</th>
</tr>
</thead>
<tbody>
<tr>
<td>Stop reporting, begun with an ALW:BCI input message, of line unit concentrator blockages in A- and B-links for originating or terminating calls.</td>
<td>STP:BCI</td>
<td>5E12 and later</td>
</tr>
</tbody>
</table>

### 26. BOOT DISK

<table>
<thead>
<tr>
<th>Topic/Purpose</th>
<th>Message ID</th>
<th>Software Release Range</th>
</tr>
</thead>
<tbody>
<tr>
<td>Provides a list of all available alternate boot disk units on the switch.</td>
<td>OP:ABD</td>
<td>5E12 and later</td>
</tr>
</tbody>
</table>

### 27. BOOTSTRAP

<table>
<thead>
<tr>
<th>Topic/Purpose</th>
<th>Message ID</th>
<th>Software Release Range</th>
</tr>
</thead>
<tbody>
<tr>
<td>Aborts actions on the bootstrapper board (BTSR) at the specified location.</td>
<td>ABT:BTSR</td>
<td>5E12 and later</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Topic/Purpose</th>
<th>Message ID</th>
<th>Software Release Range</th>
</tr>
</thead>
<tbody>
<tr>
<td>Requests that the bootstrapper board (BTSR) be diagnosed to determine whether it is in satisfactory working order.</td>
<td>DGN:BTSR</td>
<td>5E12 and later</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Topic/Purpose</th>
<th>Message ID</th>
<th>Software Release Range</th>
</tr>
</thead>
<tbody>
<tr>
<td>Performs various exercises on the bootstrapper board (BTSR).</td>
<td>EX:BTSR</td>
<td>5E12 and later</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Topic/Purpose</th>
<th>Message ID</th>
<th>Software Release Range</th>
</tr>
</thead>
<tbody>
<tr>
<td>Requests that the bootstrapper board (BTSR) be removed from service.</td>
<td>RMV:BTSR</td>
<td>5E12 and later</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Topic/Purpose</th>
<th>Message ID</th>
<th>Software Release Range</th>
</tr>
</thead>
<tbody>
<tr>
<td>Requests that the bootstrapper (BTSR) boards be restored to the active state.</td>
<td>RST:BTSR</td>
<td>5E12 and later</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Topic/Purpose</th>
<th>Message ID</th>
<th>Software Release Range</th>
</tr>
</thead>
<tbody>
<tr>
<td>Requests that the actions on the bootstrapper board (BTSR) at the specified location be stopped.</td>
<td>STP:BTSR</td>
<td>5E12 and later</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Topic/Purpose</th>
<th>Message ID</th>
<th>Software Release Range</th>
</tr>
</thead>
<tbody>
<tr>
<td>Invokes the bootstrapper board (BTSR) resident diagnostic.</td>
<td>TST:BTSR</td>
<td>5E12 and later</td>
</tr>
</tbody>
</table>
### 28. BREAKPOINTS

<table>
<thead>
<tr>
<th>Topic/Purpose</th>
<th>Message ID/ Software Release Range</th>
</tr>
</thead>
<tbody>
<tr>
<td>Requests that all currently defined administrative module (AM) generic access package (GRASP) breakpoints be enabled so that the associated actions are executed when the breakpoint conditions occur.</td>
<td>ALW:UTIL 5E12 and later</td>
</tr>
<tr>
<td>Requests that a specific administrative module (AM) generic access package (GRASP) breakpoint be enabled so that the associated actions are executed when the breakpoint condition occurs.</td>
<td>ALW:UTILFLAG 5E12 and later</td>
</tr>
<tr>
<td>Removes all currently defined administrative module (AM) generic access package (GRASP) breakpoints; clears definitions.</td>
<td>CLR:UTIL 5E12 and later</td>
</tr>
<tr>
<td>Removes the specified administrative module (AM) generic access package (GRASP) breakpoint and clears the definition.</td>
<td>CLR:UTILFLAG 5E12 and later</td>
</tr>
<tr>
<td>Disables (but leaves defined) all administrative module (AM) generic access package (GRASP) breakpoints.</td>
<td>INH:UTIL 5E12 and later</td>
</tr>
<tr>
<td>Disables (but leaves defined) a specific central processor (CP) generic access package (GRASP) breakpoint.</td>
<td>INH:UTILFLAG 5E12 and later</td>
</tr>
<tr>
<td>Requests lists of currently defined central processor (CP) or administrative module (AM) generic access package (GRASP) breakpoints, their status and trace status.</td>
<td>OP:UTIL 5E12 and later</td>
</tr>
</tbody>
</table>

### 29. BREVITY CONTROL

<table>
<thead>
<tr>
<th>Topic/Purpose</th>
<th>Message ID/ Software Release Range</th>
</tr>
</thead>
<tbody>
<tr>
<td>Allows originating (ORIG) or terminating (TERM) blocked call indication (BCI) reporting when a path is not available through both the A- and B-links of a line unit concentrator.</td>
<td>ALW:BCI 5E12 and later</td>
</tr>
<tr>
<td>Requests that the effect of the INH:BREVC input message be canceled, and allows automatic brevity control to be reapplied.</td>
<td>ALW:BREVC-A 5E12 - 5E13</td>
</tr>
<tr>
<td>Requests that the effect of the INH:BREVC input message be canceled, and allows automatic brevity control to be reapplied.</td>
<td>ALW:BREVC-B 5E14 and later</td>
</tr>
<tr>
<td>Requests that brevity control be activated on messages with CRITICAL, MAJOR, MANUAL and/or MINOR handling priorities.</td>
<td>CHG:MSGCNTL-A 5E12 - 5E13</td>
</tr>
<tr>
<td>Requests that brevity control be activated on messages with CRITICAL, MAJOR, MANUAL and/or MINOR handling priorities.</td>
<td>CHG:MSGCNTL-B 5E14 and later</td>
</tr>
<tr>
<td>Requests to clear all brevity control message discard (MGDSC) counts and throttling message discard counts for administrative module (AM) operational kernel process, a communication module processor (CMP), or a switching module (SM).</td>
<td>CLR:MGDSC 5E12 and later</td>
</tr>
<tr>
<td>Requests that automatic output message brevity control (BREVC) by output message class (MSGCLS) or processor be inhibited.</td>
<td>INH:BREVC-A 5E12 - 5E13</td>
</tr>
<tr>
<td>Requests that automatic output message brevity control (BREVC) by output message class (MSGCLS) or processor be inhibited.</td>
<td>INH:BREVC-B 5E14 and later</td>
</tr>
<tr>
<td>Requests the output of the current output message brevity control (BREVC) status of one or all message class(es) (MSGCLS).</td>
<td>OP:BREVC 5E12 and later</td>
</tr>
<tr>
<td>Requests total number of messages that have been discarded (MGDSC) due to brevity control and/or message queue overflow from administrative module (AM) operational kernel process, communication module processor (CMP), or a switching module (SM).</td>
<td>OP:MGDSC 5E12 and later</td>
</tr>
</tbody>
</table>

### 30. BROADCAST WARNING MESSAGE

<table>
<thead>
<tr>
<th>Topic/Purpose</th>
<th>Message ID/ Software Release Range</th>
</tr>
</thead>
<tbody>
<tr>
<td>Requests that the segment name of acknowledgement database (ACKDB) be invalidated so that the next invocation of either the shell or display administration process (DAP) reinitializes the segment name using the ACKDB installed in /cft/she/ackdb.</td>
<td>CLR:ACKDB 5E12 and later</td>
</tr>
<tr>
<td>Requests the generic text version and software update level by file system partition.</td>
<td>OP:VERSION 5E12 and later</td>
</tr>
<tr>
<td>Requests that an official software update be blocked or inhibited from being backed out.</td>
<td>UPD:BLOCK 5E12 and later</td>
</tr>
<tr>
<td>Requests that a software update that has already been installed and made official be cleared</td>
<td>UPD:CLRBWWM</td>
</tr>
</tbody>
</table>
30.1 Program Update Page

<table>
<thead>
<tr>
<th>Topic/Purpose</th>
<th>Message ID/ Software Release Range</th>
</tr>
</thead>
<tbody>
<tr>
<td>Requests that the software update installation page (BWM installation) or program update (PU) maintenance page be cleared.</td>
<td>CLR:PUPAGE 5E12 and later</td>
</tr>
<tr>
<td>Requests that the software update installation page (BWM installation) or program update maintenance page be entered.</td>
<td>SET:PUPAGE 5E12 and later</td>
</tr>
</tbody>
</table>

31. BUSINESS AND RESIDENCE CUSTOM SERVICES

<table>
<thead>
<tr>
<th>Topic/Purpose</th>
<th>Message ID/ Software Release Range</th>
</tr>
</thead>
<tbody>
<tr>
<td>Allows the user to run the business and residential custom services (BRCS) feature usage audit and remove unused BRCS constructed features from the switch.</td>
<td>EXC:BRCS 5E14 and later</td>
</tr>
<tr>
<td>To generate the information about the business and residential customer services (BRCS) feature audit progress.</td>
<td>OP:BRCS-STATUS 5E14 and later</td>
</tr>
<tr>
<td>Requests the business and residential custom services (BRCS) feature audit to be stopped.</td>
<td>STP:BRCS 5E14 and later</td>
</tr>
</tbody>
</table>

32. CALL

<table>
<thead>
<tr>
<th>Topic/Purpose</th>
<th>Message ID/ Software Release Range</th>
</tr>
</thead>
<tbody>
<tr>
<td>Requests the status of the blocked call indication (BCI) reporting feature.</td>
<td>OP:BCI 5E12 and later</td>
</tr>
</tbody>
</table>

32.1 Call Monitor

<table>
<thead>
<tr>
<th>Topic/Purpose</th>
<th>Message ID/ Software Release Range</th>
</tr>
</thead>
<tbody>
<tr>
<td>Requests the call monitor be allowed to start the cycle of making test calls and performing call completion analysis.</td>
<td>ALW:CALLMON 5E12 and later</td>
</tr>
<tr>
<td>Requests that the verbose mode of the call monitor be turned off.</td>
<td>CLR:CALLMON 5E12 and later</td>
</tr>
<tr>
<td>Requests that the call monitor be inhibited from making test calls and performing call completion analysis.</td>
<td>INH:CALLMON 5E12 and later</td>
</tr>
<tr>
<td>Requests that the OP:CALLMON output message be generated.</td>
<td>OP:CALLMON 5E12 and later</td>
</tr>
<tr>
<td>Requests that the call monitor alarm indicator be retired.</td>
<td>RTR:CALLMON 5E12 and later</td>
</tr>
<tr>
<td>Requests that the verbose mode of the call monitor be turned on.</td>
<td>SET:CALLMON 5E12 and later</td>
</tr>
</tbody>
</table>

32.2 Call Trace

<table>
<thead>
<tr>
<th>Topic/Purpose</th>
<th>Message ID/ Software Release Range</th>
</tr>
</thead>
<tbody>
<tr>
<td>Requests that tracing be allowed to take place according to the previously input trace parameter settings.</td>
<td>ALW:TRACE 5E12 and later</td>
</tr>
<tr>
<td>Requests that the tracing mechanism be inhibited.</td>
<td>INH:TRACE 5E12 and later</td>
</tr>
<tr>
<td>Requests a listing of the status of tracing and the settings of the trace detail flags for the</td>
<td>OP:TRACE</td>
</tr>
<tr>
<td>Topic/Purpose</td>
<td>Message ID/ Software Release Range</td>
</tr>
<tr>
<td>---------------</td>
<td>------------------------------------</td>
</tr>
<tr>
<td>Various Subsystems. Requests the printing of all data collected for a traced call.</td>
<td>OP:TRC 5E12 and later</td>
</tr>
<tr>
<td>Requests that the user be allowed to change the contents of the system trace control block, and therefore to change the operational characteristics of trace.</td>
<td>SET:TRACE 5E12 and later</td>
</tr>
<tr>
<td>Requests that a directory number (DN) be added to or deleted from the calling line identification (CLID) list.</td>
<td>TRC:CLID 5E12 and later</td>
</tr>
<tr>
<td>Requests an in-progress call trace (IPCT) by using either the directory number (DN), the multiline hunt group and member number (MLHG), the trunk group and member number (TKGMN), or the process ID (PID) of the party to be traced.</td>
<td>TRC:IPCT-A 5E12 - 5E14</td>
</tr>
<tr>
<td>Requests an in-progress call trace (IPCT) by using either the directory number (DN), the multi-line hunt group (MLHG), and member number, the trunk group and member number (TKGMN), the process ID (PID), or the origination point code, destination point code, and raw call instance code (OPCDPC) of the party to be traced.</td>
<td>TRC:IPCT-B 5E15 and later</td>
</tr>
<tr>
<td>Requests a utility call trace snapshot of the resources used by an in-progress call, and to update the hardware call trace Master Control Center (MCC) page with new trace data.</td>
<td>TRC:UTIL-A 5E12 only</td>
</tr>
<tr>
<td>Requests that additional information on calls that are routed to reorder be collected for a switching module (SM) or a range of SMs, and the information be reported on the ROP after 15 minutes have elapsed or information for the first 30 reorder events has been collected, whichever occurs first.</td>
<td>ALW:REORD-SM 5E12 and later</td>
</tr>
<tr>
<td>Requests that the collection of additional information for calls routed to reorder be terminated.</td>
<td>INH:REORD 5E12 and later</td>
</tr>
</tbody>
</table>

### 32.3 Reorder

**Message ID/ Software Release Range**

| Requests that additional information on calls that are routed to reorder be collected for a switching module (SM) or a range of SMs, and the information be reported on the ROP after 15 minutes have elapsed or information for the first 30 reorder events has been collected, whichever occurs first. | ALW:REORD-SM 5E12 and later |

### 32.4 Switch Cutoff

**Message ID/ Software Release Range**

| Requests that information related to switch cutoff calls be allowed, either with or without an accompanying hardware call trace. | ALW:SCORPT 5E12 and later |
| Requests that the reporting of information related to switch cutoff calls be inhibited. | INH:SCORPT 5E12 and later |

### 32.5 Transient Calls Lost

**Message ID/ Software Release Range**

| Requests that the reporting of information be allowed related to transient calls lost either with or without an accompanying hardware call trace. | ALW:TCLRPT 5E12 and later |
| Inhibits the reporting of information related to transient calls lost. | INH:TCLRPT 5E12 and later |

### 33. CAMPED-ON UNITS

**Message ID/ Software Release Range**

| Requests a list of the trunks, lines, data links, and Operator Services Position System Ports | OP:CAMPON-A |
### 34. CARRIER GROUP ALARM

<table>
<thead>
<tr>
<th>Topic/Purpose</th>
<th>Message ID/ Software Release Range</th>
</tr>
</thead>
<tbody>
<tr>
<td>Requests clearance of a network management (NM) call gapping (CGAP) code control restricting traffic by issuing a destination code, an access prefix, or both.</td>
<td>CLR:CGAP 5E12 and later</td>
</tr>
<tr>
<td>Requests that the active carrier group alarms from integrated carrier facilities terminating on digital facility interfaces (DFIs), integrated digital carrier units (IDCUs), remote integrated services line units (RISLUs), non-integrated carrier facilities monitored by metallic service unit (MSU) scan points, and digital network unit-synchronous optical network (SONET)/(DNU-S) be printed.</td>
<td>OP:CGA-A 5E12 only</td>
</tr>
<tr>
<td>Requests that the active carrier group alarms from integrated carrier facilities terminating on digital facility interfaces (DFIs), integrated digital carrier units (IDCUs), remote integrated services line units (RISLUs), non-integrated carrier facilities monitored by metallic service unit (MSU) scan points, and digital networking unit-synchronous optical network (SONET)/(DNU-S) be printed.</td>
<td>OP:CGA-B 5E13 - 5E15</td>
</tr>
<tr>
<td>Requests that the active carrier group alarms be printed for integrated carrier facilities terminating on digital facility interfaces (DFIs), digital networking unit-synchronous optical network (SONET)/(DNU-S), integrated digital carrier units (IDCUs), optical interface unit (OIU), remote integrated services line units (RISLUs), SLC® 96 DFI facility interfaces (SDFIs), and non-integrated carrier facilities monitored by metallic service unit (MSU) scan points.</td>
<td>OP:CGA-C 5E16(1) and later</td>
</tr>
<tr>
<td>Requests that all call gapping (CGAP) code controls in the office be listed.</td>
<td>OP:CGAP 5E12 and later</td>
</tr>
<tr>
<td>Requests that a call gapping (CGAP) code control be set to restrict traffic.</td>
<td>SET:CGAP-A 5E12 - 5E14</td>
</tr>
<tr>
<td>Requests that a call gapping (CGAP) code control be set to restrict traffic.</td>
<td>SET:CGAP-B 5E15 and later</td>
</tr>
</tbody>
</table>

### 35. CENTRALIZED TRUNK TESTING UNIT

<table>
<thead>
<tr>
<th>Topic/Purpose</th>
<th>Message ID/ Software Release Range</th>
</tr>
</thead>
<tbody>
<tr>
<td>Requests that the position busy (PB) indicator be cleared at certain trunk line work stations.</td>
<td>CLR:PB</td>
</tr>
</tbody>
</table>
Requests the display of the position busy (PB) and not position busy (NBP) status of each of the trunk line work stations (TLWSs) or centralized trunk test units (CTTUs) that are assigned to receive incoming 101 test calls.

Requests that the position busy (PB) indicator of certain trunk line work stations (TLWSs) or centralized trunk test units (CTTUs) that are assigned to receive incoming 101 test line calls be set.

### 36. CHECKSUM

<table>
<thead>
<tr>
<th>Topic/Purpose</th>
<th>Message ID/ Software Release Range</th>
</tr>
</thead>
<tbody>
<tr>
<td>Requests a 16-bit checksum for a specified file, and prints the number of blocks in the file.</td>
<td>OP:ST-SUM 5E12 and later</td>
</tr>
</tbody>
</table>

### 37. CLOCKS

<table>
<thead>
<tr>
<th>Topic/Purpose</th>
<th>Message ID/ Software Release Range</th>
</tr>
</thead>
<tbody>
<tr>
<td>Reports the current date and time.</td>
<td>OP:CLK 5E12 and later</td>
</tr>
<tr>
<td>Requests that the system clock be set to the specified date and time, or that the system time be adjusted by a small amount.</td>
<td>SET:CLK-5 5E12 and later</td>
</tr>
<tr>
<td>Sets the system clock to the specified data and time.</td>
<td>SET:CLK-A 5E12 - 5E13</td>
</tr>
<tr>
<td>Sets the system clock to the specified data and time.</td>
<td>SET:CLK-B 5E14 and later</td>
</tr>
</tbody>
</table>

### 38. COMMAND HISTORY

<table>
<thead>
<tr>
<th>Topic/Purpose</th>
<th>Message ID/ Software Release Range</th>
</tr>
</thead>
<tbody>
<tr>
<td>Allows history recording for the terminal upon which it is entered.</td>
<td>ALW:HIST 5E12 and later</td>
</tr>
<tr>
<td>Clears out the command history buffer.</td>
<td>CLR:HIST 5E12 and later</td>
</tr>
<tr>
<td>Requests that the previous input message entered at this terminal be re-executed.</td>
<td>EXC:PREV 5E12 and later</td>
</tr>
<tr>
<td>Inhibits history recording for the terminal upon which it is entered.</td>
<td>INH:HIST 5E12 and later</td>
</tr>
</tbody>
</table>

### 39. COMMON CHANNEL SIGNALING

<table>
<thead>
<tr>
<th>Topic/Purpose</th>
<th>Message ID/ Software Release Range</th>
</tr>
</thead>
<tbody>
<tr>
<td>Requests the allow for the periodic signaling link test (PSLT).</td>
<td>ALW:CCS-PSLT 5E13 and later</td>
</tr>
<tr>
<td>Allows automatic periodic execution of the common channel signaling (CCS) office-wide circuit query.</td>
<td>ALW:CCSCSQ 5E12 and later</td>
</tr>
<tr>
<td>Requests status of the CCS message transport (CMT) connectivity between a specified global switching module (GSM) and one/all child non-global switching modules (NGSMs). CMT is the ability to transport CCS messages internally within the switch.</td>
<td>TST:GSMNET 5E15 and later</td>
</tr>
</tbody>
</table>

### 40. COMMON LINK NORMALIZATION

<table>
<thead>
<tr>
<th>Topic/Purpose</th>
<th>Message ID/ Software Release Range</th>
</tr>
</thead>
<tbody>
<tr>
<td>Requests that the communication link normalization (CLNORM) process be allowed.</td>
<td>ALW:CLNORM</td>
</tr>
</tbody>
</table>

---

(TLWSs) or centralized trunk test units (CTTUs) assigned to receive incoming 101 test line calls.
### 41. COMMON NETWORK INTERFACE

<table>
<thead>
<tr>
<th>Topic/Purpose</th>
<th>Message ID/ Software Release Range</th>
</tr>
</thead>
<tbody>
<tr>
<td>Requests an allow of all break points in the specified common network interface (CNI) node.</td>
<td>ALW:RUTIL 5E12 and later</td>
</tr>
<tr>
<td>Requests an allow of the specified break point in the specified common network interface (CNI) ring node.</td>
<td>ALW:RUTILFLAG 5E12 and later</td>
</tr>
<tr>
<td>Requests that the common network interface (CNI) ring be configured to include or exclude ring node(s) from the active ring segment, or if the ring is down, to initialize it.</td>
<td>CFR:RING 5E12 and later</td>
</tr>
<tr>
<td>Requests a change in the common network interface (CNI) incore view of the CNI generic identification.</td>
<td>CHG:GEN 5E12 and later</td>
</tr>
<tr>
<td>Requests that the SCCP routing verification test (SRVT) delay parameter, which is used in the calculation of the T2 timer, be changed or displayed.</td>
<td>CHG:SRVT 5E12 and later</td>
</tr>
<tr>
<td>Removes (clears) the common network interface (CNI) system from min-mode.</td>
<td>CLR:MINMODE-CNI 5E12 and later</td>
</tr>
<tr>
<td>Clears all breakpoints in the specified common network interface (CNI) ring node.</td>
<td>CLR:RUTIL 5E12 and later</td>
</tr>
<tr>
<td>Clears a specific breakpoint in the specified common network interface (CNI) ring node.</td>
<td>CLR:RUTILFLAG 5E12 and later</td>
</tr>
<tr>
<td>Requests that the specified link nodes (LN) be diagnosed.</td>
<td>DGN:LN 5E12 and later</td>
</tr>
<tr>
<td>Requests a dump of the memory contents of the specified address at the given common network interface (CNI) ring node.</td>
<td>DUMP:RUTIL 5E12 and later</td>
</tr>
<tr>
<td>Requests the exercise of a link node (LN) in an interactive diagnostic mode.</td>
<td>EX:LN 5E12 and later</td>
</tr>
<tr>
<td>Requests that control operations be performed on the remote access subsystem (REMACS) data audit, or requests the status of that subsystem.</td>
<td>EXC:REMACS 5E12 and later</td>
</tr>
<tr>
<td>Requests that the signaling connection control port (SCCP) routing verification test (SRVT) be initiated.</td>
<td>EXC:SRVT 5E12 and later</td>
</tr>
<tr>
<td>Requests forced removal of the specified node from service, regardless of the state of the link, mate, or other nodes.</td>
<td>FRMV:LN 5E12 and later</td>
</tr>
<tr>
<td>Requests the status or changes the value of the report inhibit flag.</td>
<td>INH:REPORT 5E12 and later</td>
</tr>
<tr>
<td>Requests that the link removal inhibit flag be administered and displayed.</td>
<td>INH:RMV 5E12 and later</td>
</tr>
<tr>
<td>Requests an inhibit of all the break points in the specified common network interface (CNI) node.</td>
<td>INH:RUTIL 5E12 and later</td>
</tr>
<tr>
<td>Requests an inhibit of the specified break point in the specified common network interface (CNI) ring node.</td>
<td>INH:RUTILFLAG 5E12 and later</td>
</tr>
<tr>
<td>Requests a common network interface (CNI) initialization at a specified level.</td>
<td>INIT:CNI 5E12 and later</td>
</tr>
<tr>
<td>Requests forced removal from service and restart of the specified node, regardless of the state of the link and other nodes.</td>
<td>INIT:LN 5E12 and later</td>
</tr>
<tr>
<td>Initiates the updating of the software of all SS7 nodes or a single SS7 node.</td>
<td>LNUPD:LN 5E12 and later</td>
</tr>
<tr>
<td>Requests a load of the contents of the specified address at the given common network interface (CNI) ring node with the given data.</td>
<td>LOAD:RUTIL 5E12 and later</td>
</tr>
<tr>
<td>Requests the output of the current usage of an Operator Position System (OPSS) External Information System (EIS) data link or data link group.</td>
<td>OP:DATALINK 5E12 and later</td>
</tr>
<tr>
<td>Requests that a snapshot of certain key link node (link interface and node processor) status and data information be output.</td>
<td>OP:INSTAT 5E12 and later</td>
</tr>
<tr>
<td>Generates a printout of the status for the last LNUPD:LN input message request.</td>
<td>OP:LNUPD 5E12 and later</td>
</tr>
<tr>
<td>Requests status information (Format 1) or generic information (Format 2) about a particular</td>
<td>OP:RING</td>
</tr>
</tbody>
</table>
node, a group of nodes, or all nodes on a particular group.

Requests an output of the status of all the break points in the specified node.

5E12 and later

OP:RUTIL

Requests an output of the status of the specified break point in the specified common network interface (CNI) ring node.

5E12 and later

OP:RUTILFLAG

Requests that the common network interface database consolidator (CNIDBOC) be run.

RCV:M-CNIDBOC

5E12 and later

Requests that the common network interface (CNI) growth script be executed.

RCV:M-CNIGROWTH

5E12 and later

Requests that the specified link node (LN) be removed from service.

RMV:LN

5E12 and later

Requests that the specified link node (LN) be restored to service either conditionally or unconditionally.

RST:LN

5E12 and later

Terminates or interrupts the updating of the software of all SS7 nodes before the update procedure has been completed.

STOP:LNUPD

5E12 and later

Requests the Operating System for Distributed Switching (OSDS) resource monitoring utility to stop collecting and reporting usage of OSDS message, process, stack, and timer control blocks.

STP:PERF

5E12 and later

Requests that the mate network clock node be switched to the master network clock node.

SW:CLOCK

5E12 and later

Requests a set of the given break point at the specified common network interface (CNI) ring node with the action-list provided.

WHEN:RUTIL

5E12 and later

41.1 Ring Peripheral Controller Node

<table>
<thead>
<tr>
<th>Topic/Purpose</th>
<th>Message ID/Software Release Range</th>
</tr>
</thead>
<tbody>
<tr>
<td>Requests diagnostics of the specified ring peripheral controller node (RPCN).</td>
<td>DGN:RPCN 5E12 and later</td>
</tr>
<tr>
<td>Exercises a ring peripheral controller node (RPCN) in an interactive diagnostic mode.</td>
<td>EX:RPCN 5E12 and later</td>
</tr>
<tr>
<td>Requests that the specified ring peripheral controller node (RPCN) be removed from service.</td>
<td>RMV:RPCN 5E12 and later</td>
</tr>
<tr>
<td>Requests that the specified ring peripheral controller node (RPCN) be restored to service.</td>
<td>RST:RPCN 5E12 and later</td>
</tr>
</tbody>
</table>

42. COMMON OBJECT FILE FORMAT

<table>
<thead>
<tr>
<th>Topic/Purpose</th>
<th>Message ID/Software Release Range</th>
</tr>
</thead>
<tbody>
<tr>
<td>Requests that symbolic information be dumped from the common object file format (COFF) file defined by the processor or path identified in the input message.</td>
<td>DUMP:UT-SYMID-A 5E12 - 5E14</td>
</tr>
<tr>
<td>Requests that symbolic information be dumped from the common object file format (COFF) file defined by the processor or path identified in the input message.</td>
<td>DUMP:UT-SYMID-B 5E15 only</td>
</tr>
<tr>
<td>Requests that symbolic information be dumped from the common object file format (COFF) file defined by the processor or path identified in the input message.</td>
<td>DUMP:UT-SYMID-C 5E16(1) and later</td>
</tr>
</tbody>
</table>

43. COMMUNICATIONS MODULE

<table>
<thead>
<tr>
<th>Topic/Purpose</th>
<th>Message ID/Software Release Range</th>
</tr>
</thead>
<tbody>
<tr>
<td>Allows hardware error checks to be performed on all communication module (CM) units.</td>
<td>ALW:HDW-CM 5E12 and later</td>
</tr>
<tr>
<td>Requests that the communication module (CM) be re-synchronized with (unisolated from) the administrative module (AM).</td>
<td>CLR:ISOL-CM 5E12 and later</td>
</tr>
<tr>
<td>Inhibits all hardware error checks on all communication module (CM) units.</td>
<td>INH:HDW-CM 5E12 and later</td>
</tr>
<tr>
<td>This message is used to reinitialize the CM without affecting the administrative module (AM).</td>
<td>INIT:CM 5E12 and later</td>
</tr>
<tr>
<td>Requests a printout of the configuration status of the specified communications module (CM)</td>
<td>OP:CFGSTAT-CM-A</td>
</tr>
</tbody>
</table>
### 44. COMMUNICATION MODULE PROCESSOR

<table>
<thead>
<tr>
<th>Topic/Purpose</th>
<th>Message ID/ Software Release Range</th>
</tr>
</thead>
<tbody>
<tr>
<td>Requests that actions on a communication module processor (CMP) be aborted.</td>
<td>ABT:CMP 5E12 and later</td>
</tr>
<tr>
<td>Requests that a communication module processor (CMP) audit be allowed to execute automatically or an audit cycle to execute routinely on one CMP.</td>
<td>ALW:AUD-CMP 5E12 and later</td>
</tr>
<tr>
<td>Requests that hardware error checks be allowed to be performed on the specified communication module processor (CMP).</td>
<td>ALW:HDW-CMP 5E12 and later</td>
</tr>
<tr>
<td>Requests that generic utility WHEN breakpoint clauses in the communication module processors (CMP) be allowed or enabled.</td>
<td>ALW:UT-CMP 5E12 and later</td>
</tr>
<tr>
<td>Requests a communication module processor (CMP) audit to be run in one CMP.</td>
<td>AUD:CMP 5E12 and later</td>
</tr>
<tr>
<td>Requests that one specific WHEN clause or all WHEN clauses from both the application program and the memory of the communication module processor (CMP) be removed.</td>
<td>CLR:UT-CMP 5E12 and later</td>
</tr>
<tr>
<td>Requests that a value be copied into an address, register, global variable (specified by name or symbol index), or utility variable of the communications module processor (CMP), and optionally perform specific operations.</td>
<td>COPY:UT-CMP-A 5E12 - 5E14</td>
</tr>
<tr>
<td>Requests that a value be copied into an address, register, global variable (specified by name or symbol index), or utility variable of the communications module processor (CMP), and optionally perform specific operations.</td>
<td>COPY:UT-CMP-B 5E15 and later</td>
</tr>
<tr>
<td>Requests diagnosis of a communication module processor (CMP) to determine whether it is in satisfactory working order.</td>
<td>DGN:CMP 5E12 and later</td>
</tr>
<tr>
<td>Requests that the contents of one or more sequential memory locations in the specified communications module processor (CMP) be dumped.</td>
<td>DUMP:UT-CMP-A 9E12 - 5E14</td>
</tr>
<tr>
<td>Requests that the contents of one or more sequential memory locations in the specified communications module processor (CMP) be dumped.</td>
<td>DUMP:UT-CMP-B 5E15 only</td>
</tr>
<tr>
<td>Requests that the contents of one or more sequential memory locations in the specified communications module processor (CMP) be dumped.</td>
<td>DUMP:UT-CMP-C 5E16(1) and later</td>
</tr>
<tr>
<td>Requests that the contents of one or more sequential memory locations in the specified communication module processor message handler (CMPMSG) be dumped.</td>
<td>DUMP:UT-CMPMSG-A 5E12 - 5E14</td>
</tr>
<tr>
<td>Requests that the contents of one or more sequential memory locations in the specified communication module processor message handler (CMPMSG) be dumped.</td>
<td>DUMP:UT-CMPMSG-B 5E15 and later</td>
</tr>
<tr>
<td>Requests that the conditional ELSE input message used with the IF input message perform any communications module processor (CMP) generic utility input messages following it, provided the IF input message comparison is not true.</td>
<td>ELSE:UT-CMP 5E12 and later</td>
</tr>
<tr>
<td>Requests that a series of communication module processor (CMP) generic utility input messages be ended.</td>
<td>END:UT-CMP 5E12 and later</td>
</tr>
<tr>
<td>Requests interactive diagnosis of a communication module processor (CMP).</td>
<td>EX:CMP 5E12 and later</td>
</tr>
<tr>
<td>Format 1 requests that an unconditional call to a function using parameters in the specified communication module processor (CMP) be executed.</td>
<td>EXC:UT-CMP-A 5E12 - 5E14</td>
</tr>
<tr>
<td>Format 1 requests that an unconditional call to a function using parameters in the specified communication module processor (CMP) be executed.</td>
<td>EXC:UT-CMP-B 5E15 and later</td>
</tr>
<tr>
<td>Requests that an unconditional call to a function using parameters in the specified communication module processor (CMP) message handler (CMPMSGH) be executed.</td>
<td>EXC:UT-CMPMSG-A 5E12 - 5E14</td>
</tr>
<tr>
<td>Requests that an unconditional call to a function using parameters in the specified communication module processor (CMP) message handler (CMPMSGH) be executed.</td>
<td>EXC:UT-CMPMSG-B 5E15 and later</td>
</tr>
</tbody>
</table>
Requests that a constant or variable in a communication module processor's (CMP) memory be compared against another constant or variable in the CMP memory.

IF:UT-CMP-A
5E12 - 5E14

Requests that a constant or variable in a communication module processor's (CMP) memory be compared against another constant or variable in the CMP memory.

IF:UT-CMP-B
5E15 and later

Signifies the end of an IF-ELSE statement in the communication module processor (CMP) and must be used in combination with the IF:UT-CMP input message.

IF:UT-CMP-ENDIF
5E12 and later

Requests that the automatic execution of an audit or the routine execution of the audit cycle be inhibited in one communication module processor (CMP).

INH:AUD-CMP
5E12 and later

Requests that the hardware checks on the specified communication module processor (CMP) be inhibited.

INH:HDW-CMP
5E12 and later

Requests that a specific generic utility WHEN clause in the communications module processor (CMP), or all such active clauses, be inhibited.

INH:UT-CMP
5E12 and later

Requests that the selected communication module processors (CMPs) be initialized at the specified level.

INIT:COMP
5E12 and later

Requests that a single process purge (SPP) of a named process in a selected communication module processor (CMP).

INIT:COMP-SPP
5E12 and later

Requests that a value(s) be loaded into the memory of the specified communication module processor (CMP).

LOAD:UT-CMP
5E12 and later

Requests that a value(s) be loaded into the memory of the specified communication module processor (CMP) message handler (CMPMSG).

LOAD:UT-CMPMSG-A
5E12 - 5E14

Requests that a value(s) be loaded into the memory of the specified communication module processor (CMP) message handler (CMPMSG).

LOAD:UT-CMPMSG-B
5E15 and later

Requests a copy of the postmortem for the communication module processor (CMP).

OP:POSTMORT-CMP
5E12 and later

Requests a report of the status of a specified audit, all audits, or all inhibited audits for a particular communication module processor (CMP) or range of CMPs.

OP:ST-AUD-CMP-A
5E12 - 5E15

Requests a report of the status of a specified audit, all audits, or all inhibited audits for a particular communication module processor (CMP) or range of CMPs.

OP:ST-AUD-CMP-B
5E16(1) and later

Requests a report on the status of one or all of the generic utilities WHEN (breakpoint) clauses in the communications module processor (CMP).

OP:UT-CMP
5E12 and later

Requests removal of a communication module processor (CMP) from service.

RMV:COMP
5E12 and later

Requests a conditional or unconditional restore of a communication module processor (CMP) to the active or standby state.

RST:COMP
5E9(1) and later

Requests a download of the off-line communication module processor (CMP) memory for the specified CMP from the off-line administrative module (AM) disk followed by an off-line verification.

ST:OPUMP-CMP
5E9(1) and later

Stops the currently executing audit in a communication module processor (CMP).

STP:AUD-CMP
5E12 and later

Requests that specific actions on a communication module processor (CMP) be stopped (Format 1).

STP:COMP
5E12 and later

Requests that the current switch on the unit specified be stopped.

STP:SW
5E12 and later

Requests activation of the standby of the communication module processor (CMP).

SW:CMP
5E12 and later

Format 1 requests that a temporary generic utility WHEN breakpoint be defined using an address of an application program in the specified communications module processor (CMP).

WHEN:UT-CMP-A
5E12 - 5E14

Format 1 requests that a temporary generic utility WHEN breakpoint be defined using an address of an application program in the specified communications module processor (CMP).

WHEN:UT-CMP-B
5E15 and later

45. COMMUNICATIONS LINK

<table>
<thead>
<tr>
<th>Topic/Purpose</th>
<th>Message ID/Software Release Range</th>
</tr>
</thead>
<tbody>
<tr>
<td>Aborts actions on the specified communication link (CLNK).</td>
<td>ABT:CLNK</td>
</tr>
<tr>
<td>5E12 and later</td>
<td></td>
</tr>
<tr>
<td>Allows level 2 and level 3 hardware checks errors to be performed on one or all communication links (CLNKs).</td>
<td>ALW:HDW-CLNK</td>
</tr>
<tr>
<td>5E12 and later</td>
<td></td>
</tr>
<tr>
<td>Inhibits level 2 and level 3 hardware checks (errors) on one or all of the specified communication links (CLNKs).</td>
<td>INH:HDW-CLNK</td>
</tr>
<tr>
<td>5E12 and later</td>
<td></td>
</tr>
<tr>
<td>Requests that a specified communication link (CLNK) be removed from service.</td>
<td>RMV:CLNK</td>
</tr>
</tbody>
</table>
Requests that one or all of the specified communication links (CLNKs) be restored to an available state (‘hardware available’, ‘active’ or ‘ready for level-2’).

RST:CLNK

5E12 and later

### 45.1 Communications Link Digital Facility Interface

<table>
<thead>
<tr>
<th>Topic/Purpose</th>
<th>Message ID/ Software Release Range</th>
</tr>
</thead>
<tbody>
<tr>
<td>Aborts maintenance actions on an inter-remote switching module (RSM) communication link digital facilities interface (CDFI) circuit.</td>
<td>ABT:CDFI</td>
</tr>
<tr>
<td>Allows maintenance interrupts to occur on an inter-remote switching module (RSM) communication link digital facilities interface (CDFI) circuit.</td>
<td>ALW:HDW-CDFI</td>
</tr>
<tr>
<td>Performs maintenance exercises on an inter-remote switching module (RSM) communication link digital facilities interface (CDFI) circuit.</td>
<td>EX:CDFI</td>
</tr>
<tr>
<td>Diagnoses an inter-remote switching module (RSM) communication link digital facilities interface (CDFI) circuit to determine if it is in working order.</td>
<td>DGN:CDFI</td>
</tr>
<tr>
<td>Requests that an inter-remote switching module (RSM) communication link digital facilities interface (CDFI) circuit be removed from service.</td>
<td>RMV:CDFI</td>
</tr>
<tr>
<td>Requests that an inter-remote switching module (RSM) communication link digital facilities interface (CDFI) circuit be restored to service.</td>
<td>RST:CDFI</td>
</tr>
<tr>
<td>Requests that maintenance actions be stopped on an inter-remote switching module (RSM) communication link digital facilities interface (CDFI) circuit.</td>
<td>STP:CDFI</td>
</tr>
<tr>
<td>Aborts maintenance actions on an inter-remote switching module (RSM) communication link digital facilities interface (CDFI) circuit.</td>
<td>ABT:CDFI</td>
</tr>
<tr>
<td>Allows maintenance interrupts to occur on an inter-remote switching module (RSM) communication link digital facilities interface (CDFI) circuit.</td>
<td>ALW:HDW-CDFI</td>
</tr>
<tr>
<td>Performs maintenance exercises on an inter-remote switching module (RSM) communication link digital facilities interface (CDFI) circuit.</td>
<td>EX:CDFI</td>
</tr>
<tr>
<td>Diagnoses an inter-remote switching module (RSM) communication link digital facilities interface (CDFI) circuit to determine if it is in working order.</td>
<td>DGN:CDFI</td>
</tr>
<tr>
<td>Requests that an inter-remote switching module (RSM) communication link digital facilities interface (CDFI) circuit be removed from service.</td>
<td>RMV:CDFI</td>
</tr>
<tr>
<td>Requests that an inter-remote switching module (RSM) communication link digital facilities interface (CDFI) circuit be restored to service.</td>
<td>RST:CDFI</td>
</tr>
<tr>
<td>Requests that maintenance actions be stopped on an inter-remote switching module (RSM) communication link digital facilities interface (CDFI) circuit.</td>
<td>STP:CDFI</td>
</tr>
</tbody>
</table>

### 46. CONTROL DATA INTERFACE

<table>
<thead>
<tr>
<th>Topic/Purpose</th>
<th>Message ID/ Software Release Range</th>
</tr>
</thead>
<tbody>
<tr>
<td>Aborts actions on the control data interface (CDI) at the specified location.</td>
<td>ABT:CDI</td>
</tr>
<tr>
<td>Requests that a control data interface (CDI) be diagnosed to determine whether it is in satisfactory working order.</td>
<td>DGN:CDI</td>
</tr>
<tr>
<td>Interactively diagnoses the control data interface (CDI) unit.</td>
<td>EX:CDI</td>
</tr>
<tr>
<td>Requests that a control data interface (CDI) be removed from service.</td>
<td>RMV:CDI</td>
</tr>
<tr>
<td>Requests that a trunk unit control data interface (CDI) be restored to service.</td>
<td>RST:CDI</td>
</tr>
<tr>
<td>Requests that specified actions on the control data interface (CDI) at the specified location be stopped.</td>
<td>STP:CDI</td>
</tr>
<tr>
<td>Requests the printing of all data collected for a traced call.</td>
<td>OP:TRC</td>
</tr>
</tbody>
</table>

### 47. CONTROL UNIT

<table>
<thead>
<tr>
<th>Topic/Purpose</th>
<th>Message ID/ Software Release Range</th>
</tr>
</thead>
<tbody>
<tr>
<td>Requests that the standby control unit memory (CUMEM) 1 audit be run in the standby control unit (CU), comparing the contents of the online and off-line main stores when in the ACT/ACT or ACT/STBY modes.</td>
<td>AUD:CUMEM</td>
</tr>
<tr>
<td>Requests that the control unit hardware status (CUSTAT) audit be run in the manual mode.</td>
<td>AUD:CUSTAT</td>
</tr>
<tr>
<td>Diagnoses the specified administrative module (AM) control unit (CU) complex or a specified unit within the CU complex.</td>
<td>DGN:CU</td>
</tr>
<tr>
<td>Requests that an administrative module (AM) control unit (CU) be exercised in an interactive diagnostic mode.</td>
<td>EX:CU</td>
</tr>
<tr>
<td>Requests that the specified administrative module (AM) control unit (CU) be removed from the standby state to the out-of-service (OOS) state.</td>
<td>RMV:CU</td>
</tr>
<tr>
<td>Requests that a control unit (CU) be restored to standby status.</td>
<td>RST:CU</td>
</tr>
<tr>
<td>Requests a graceful switch of the active/standby status of the administrative module (AM)</td>
<td>SW:CU</td>
</tr>
</tbody>
</table>
## 48. COPYING

<table>
<thead>
<tr>
<th>Topic/Purpose</th>
<th>Message ID/ Software Release Range</th>
</tr>
</thead>
<tbody>
<tr>
<td>Copies a file from an active disk to an offline (OFL) or out-of-service (OOS) disk.</td>
<td>COPY:ACTDISK 5E12 and later</td>
</tr>
<tr>
<td>Requests that data be copied from virtual addresses in main memory to other virtual addresses, registers, or administrative module (AM) generic access package (GRASP) utility variables as a response to a breakpoint.</td>
<td>COPY:ADDR 5E12 and later</td>
</tr>
<tr>
<td>Copies selected on-line disk partitions to tape in the load disk from tape (LDFT) format.</td>
<td>COPY:BKDISK 5E12 and later</td>
</tr>
<tr>
<td>Compares disk partitions in order to detect differences.</td>
<td>COPY:DIFF-SRC-MHD 5E12 and later</td>
</tr>
<tr>
<td>Requests that the system generation (SG) database files be copied from the primary partition on disk to a magnetic tape.</td>
<td>COPY:ECO-TAPE 5E12 and later</td>
</tr>
<tr>
<td>Requests that a specific file be moved into a contiguous area.</td>
<td>COPY:FSYS-CFILE 5E12 and later</td>
</tr>
<tr>
<td>Requests that a specific file be copied to another file or directory.</td>
<td>COPY:FSYS-FILE 5E12 and later</td>
</tr>
<tr>
<td>Requests that the system office dependent data (ODD) files be copied from disk to magnetic tape.</td>
<td>COPY:ODD-TAPE 5E12 and later</td>
</tr>
<tr>
<td>Copies a specific file from an out-of-service (OOS) disk to an active system disk.</td>
<td>COPY:OOSDISK 5E12 and later</td>
</tr>
<tr>
<td>Requests that data be copied from virtual addresses in main memory to the administrative module (AM) generic access package (GRASP) utility variables.</td>
<td>COPY:PID 5E12 and later</td>
</tr>
<tr>
<td>Requests that one set of disk partitions be copied into a corresponding set of partitions.</td>
<td>COPY:PTN-ALL 5E12 and later</td>
</tr>
<tr>
<td>Requests that data be copied from the administrative module (AM) registers to virtual addresses in main memory and in registers as an action associated with a breakpoint.</td>
<td>COPY:REG 5E12 and later</td>
</tr>
<tr>
<td>Copies a specific partition, or a list of partitions, from one of the system disks to an active spare disk.</td>
<td>COPY:SPDISK 5E12 and later</td>
</tr>
<tr>
<td>Copies a task oriented practice (TOP) file(s) from disk to tape.</td>
<td>COPY:TAPE-DATA 5E12 and later</td>
</tr>
<tr>
<td>Copies data from the emergency dump partition on a disk to a magnetic tape.</td>
<td>COPY:TAPE-EMERDMP 5E12 and later</td>
</tr>
<tr>
<td>Copies files from a magnetic tape containing full or relative pathnames and header information, and places them in their respective directories.</td>
<td>COPY:TAPE-IN 5E12 and later</td>
</tr>
<tr>
<td>Copies one or more files to a magnetic tape, along with full or relative pathnames and header (status) information.</td>
<td>COPY:TAPE-OUT 5E12 and later</td>
</tr>
<tr>
<td>Writes the diagnostic test tape header block onto a magnetic tape.</td>
<td>COPY:TAPE-TEST 5E12 and later</td>
</tr>
<tr>
<td>Copies a tape-only program (TOP) file from disk to tape.</td>
<td>COPY:TAPE-TOP 5E14 and later</td>
</tr>
<tr>
<td>Requests that data be copied from virtual addresses in main memory to administrative module (AM) generic access package (GRASP) utility variables as an immediate action.</td>
<td>COPY:UID 5E12 and later</td>
</tr>
<tr>
<td>Requests that a value be copied into an address, register, global variable (specified by name or symbol index), or utility variable of the packet interface (PI) unit and optionally perform any of the following operations.</td>
<td>COPY:UT-MCTSI-PI 5E12 and later</td>
</tr>
<tr>
<td>Requests that data be copied from an administrative module (AM) generic access package (GRASP) in utility variable to virtual addresses in main memory and in registers as an action associated with a breakpoint.</td>
<td>COPY:UVAR 5E12 and later</td>
</tr>
<tr>
<td>Stops any COPY:DIFF:SRC input messages that are currently executing.</td>
<td>STOP:COPY-DIFF 5E12 and later</td>
</tr>
<tr>
<td>Stops any COPY:DIFF:SRC input messages that are currently executing.</td>
<td>STP:COPY-DIFF 5E12 and later</td>
</tr>
</tbody>
</table>

## 49. CUSTOMER

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### 49.1 Customer Account Services

<table>
<thead>
<tr>
<th>Topic/Purpose</th>
<th>Message ID/ Software Release Range</th>
</tr>
</thead>
<tbody>
<tr>
<td>Requests that a customer account services (CAS) query be sent to the CAS/ network control point (NCP) data base to verify its operation.</td>
<td>TST:CAS 5E12 and later</td>
</tr>
<tr>
<td>Requests that a customer account services (CAS) Common Channel Signaling System 7 (CCS7) transaction capabilities application part (TCAP) test query be sent to the CAS/network control point (NCP) or gateway/NCP data base to verify its operation.</td>
<td>TST:CAS7 5E12 and later</td>
</tr>
</tbody>
</table>

### 49.2 Customer Premise Equipment

<table>
<thead>
<tr>
<th>Topic/Purpose</th>
<th>Message ID/ Software Release Range</th>
</tr>
</thead>
<tbody>
<tr>
<td>Requests that information describing the configuration of the specified digital subscriber line (DSL) be displayed.</td>
<td>OP:CPE 5E12 and later</td>
</tr>
<tr>
<td>Requests removal from service of the specified customer premises equipment (CPE) integrated services digital network (ISDN) terminal on custom multi-point (MP) and standard interface digital subscriber line (DSL).</td>
<td>RMV:CPE 5E12 and later</td>
</tr>
<tr>
<td>Requests that a specified customer premises equipment (CPE) integrated services digital network (ISDN) terminal on custom multi-point (MP) and standard interface digital subscriber line (DSL) be restored to service.</td>
<td>RST:CPE 5E12 and later</td>
</tr>
<tr>
<td>Requests a test of customer premises equipment (CPE) connected to a digital subscriber line (DSL) at the trunk and line work station (TLWS) test position (TP) number that was seized using a TLWS seize line input message.</td>
<td>TST:WSCPE 5E12 and later</td>
</tr>
</tbody>
</table>

### 50. CUSTOMER ORIGINATED TRACE

<table>
<thead>
<tr>
<th>Topic/Purpose</th>
<th>Message ID/ Software Release Range</th>
</tr>
</thead>
<tbody>
<tr>
<td>Requests output of the mode, priority, and number of messages buffered for the customer-originated trace (COT) feature.</td>
<td>OP:COT-STATUS 5E12 and later</td>
</tr>
<tr>
<td>Requests that the mode and/or priority of customer-originated traces (COT) be changed.</td>
<td>5E1 and later</td>
</tr>
</tbody>
</table>

### 51. CUSTOMER SERVICE COMPUTER ACCESS NETWORK SYSTEM

<table>
<thead>
<tr>
<th>Topic/Purpose</th>
<th>Message ID/ Software Release Range</th>
</tr>
</thead>
<tbody>
<tr>
<td>Requests a report containing the current status of the active file receiving process from the Customer Service Computer Access Network System (CSCANS) interface.</td>
<td>UPD:CSCANS-REPT 5E12 and later</td>
</tr>
<tr>
<td>Requests that the download of software update files from the remote source be terminated.</td>
<td>UPD:CSCANS-STOP 5E12 and later</td>
</tr>
</tbody>
</table>

### 52. CUTOVER AND CUTBACK

<table>
<thead>
<tr>
<th>Topic/Purpose</th>
<th>Message ID/ Software Release Range</th>
</tr>
</thead>
<tbody>
<tr>
<td>Transfers lines from one switching system to another switching system (cutover and cutback).</td>
<td>EXC:CO 5E12 and later</td>
</tr>
</tbody>
</table>

### 53. DEBUGGING

<table>
<thead>
<tr>
<th>Topic/Purpose</th>
<th>Message ID/ Software Release Range</th>
</tr>
</thead>
<tbody>
<tr>
<td>Requests that debugging messages be allowed to be printed for a given feature.</td>
<td>ALW:DEBUG-A 5E12 - 5E13</td>
</tr>
<tr>
<td>Requests that debugging messages be allowed to be printed for a given feature.</td>
<td>ALW:DEBUG-B 5E14 and later</td>
</tr>
</tbody>
</table>
Requests that debugging messages be inhibited from being printed for a given feature. INH:DEBUG-A
5E12 - 5E13
Requests that debugging messages be inhibited from being printed for a given feature. INH:DEBUG-B
5E14 and later
Requests that status of metallic debugging flags be printed for the specified SM. OP:DEBUG
5E12 and later

### 54. DEFAULT CELL GROUP

<table>
<thead>
<tr>
<th>Topic/Purpose</th>
<th>Message ID/ Software Release Range</th>
</tr>
</thead>
<tbody>
<tr>
<td>Requests that the reporting of information related to calls pegging the default cell group (DCG) be allowed.</td>
<td>ALW:DCGRPT 5E12 and later</td>
</tr>
<tr>
<td>Requests that the reporting of information related to calls pegging the default cell group (DCG) be stopped.</td>
<td>STP:DCGRPT 5E12 and later</td>
</tr>
</tbody>
</table>

### 55. DEFENSE SWITCH NETWORK

<table>
<thead>
<tr>
<th>Topic/Purpose</th>
<th>Message ID/ Software Release Range</th>
</tr>
</thead>
<tbody>
<tr>
<td>Deletes a package from the five-minute (M5) surveillance data set of packages.</td>
<td>CLR:DSNM5 5E12 and later</td>
</tr>
<tr>
<td>To refresh the defense switched network (DSN) management page.</td>
<td>INIT:DSNPAGE 5E12 and later</td>
</tr>
<tr>
<td>Requests a list of a package from the five-minute surveillance data set of packages.</td>
<td>OP:DSNM5 5E12 and later</td>
</tr>
<tr>
<td>Requests that a package be added to the five minute surveillance data set of packages for the on-site network management channel.</td>
<td>SET:DSNM5 5E12 and later</td>
</tr>
</tbody>
</table>

### 56. DESTINATION CODE CANCELLATION

<table>
<thead>
<tr>
<th>Topic/Purpose</th>
<th>Message ID/ Software Release Range</th>
</tr>
</thead>
<tbody>
<tr>
<td>Clears destination code cancellation (DCC) controls restricting traffic.</td>
<td>CLR:DCC 5E12 and later</td>
</tr>
<tr>
<td>Lists all destination code cancellation (DCC) controls in the office.</td>
<td>OP:DCC 5E12 and later</td>
</tr>
<tr>
<td>Requests that a destination code cancellation (DCC) control to be set or modified to restrict traffic to a specified destination code.</td>
<td>SET:DCC 5E12 and later</td>
</tr>
</tbody>
</table>

### 57. DIAGNOSTIC TESTS

<table>
<thead>
<tr>
<th>Topic/Purpose</th>
<th>Message ID/ Software Release Range</th>
</tr>
</thead>
<tbody>
<tr>
<td>Requests to execute the main store (MAS) diagnostic phase with user-supplied address range, refresh rate, number of failures to be collected, data pattern (phase 95), words per array to copy (phase 96), and refresh parity check time (phase 96).</td>
<td>EX:LPARM 5E12 and later</td>
</tr>
<tr>
<td>Requests to perform a specified group of diagnostic tasks repeatedly.</td>
<td>EX:LOOP 5E12 and later</td>
</tr>
<tr>
<td>To request to pause or suspend the diagnostic execution at a specified statement number within a diagnostic phase.</td>
<td>EX:PAUSE 5E12 and later</td>
</tr>
<tr>
<td>Requests to step through the diagnostic input messages and suspend at the specified statement number.</td>
<td>EX:STEP 5E12 and later</td>
</tr>
<tr>
<td>Requests to exit from the interactive diagnostic mode.</td>
<td>EX:STOP 5E12 and later</td>
</tr>
<tr>
<td>Requests that a circuit pack return tag is to be printed based on the information taken from the failing diagnostics on the switch.</td>
<td>OP:TAG 5E12 and later</td>
</tr>
<tr>
<td>Requests that the current diagnostic on the unit specified be stopped.</td>
<td>STP:DGN-A 5E12 - 5E14</td>
</tr>
<tr>
<td>Requests that the current diagnostic on the unit specified be stopped.</td>
<td>STP:DGN-B 5E12 and later</td>
</tr>
</tbody>
</table>
### 58. DIGITAL AUDIO TAPE

<table>
<thead>
<tr>
<th>Topic/Purpose</th>
<th>Message ID/ Software Release Range</th>
</tr>
</thead>
<tbody>
<tr>
<td>Copies the contents of a multi-volume formatted digital audio tape (DAT) from</td>
<td>COPY:BKTAPE 5E12 and later</td>
</tr>
<tr>
<td>a source DAT drive to a destination DAT drive.</td>
<td></td>
</tr>
<tr>
<td>Displays the contents of the multi-volume digital audio tape (DAT) logical</td>
<td>DUMP:BKTAPE 5E12 and later</td>
</tr>
<tr>
<td>volume headers and optionally provides an estimate of how full the tape is.</td>
<td></td>
</tr>
</tbody>
</table>

### 59. DIGITAL FACILITY INTERFACE

<table>
<thead>
<tr>
<th>Topic/Purpose</th>
<th>Message ID/ Software Release Range</th>
</tr>
</thead>
<tbody>
<tr>
<td>Requests that actions on the digital facility interface (DFI) at the specified</td>
<td>ABT:DFI 5E12 and later</td>
</tr>
<tr>
<td>location be aborted.</td>
<td></td>
</tr>
<tr>
<td>Allows hardware error checks to be performed on the specified digital facility</td>
<td>ALW:HDW-DFI 5E12 and later</td>
</tr>
<tr>
<td>interface (DFI).</td>
<td></td>
</tr>
<tr>
<td>Requests that a digital facility interface (DFI) circuit be removed and</td>
<td>DGN:DFI 5E12 and later</td>
</tr>
<tr>
<td>diagnosed.</td>
<td></td>
</tr>
<tr>
<td>Interactively diagnoses (exercises) the digital facility interface (DFI).</td>
<td>EX:DFI 5E12 and later</td>
</tr>
<tr>
<td>Requests that a digital facility interface (DFI) be removed from service.</td>
<td>RMV:DFI 5E12 and later</td>
</tr>
<tr>
<td>Requests that a digital facility interface (DFI) be restored to service.</td>
<td>RST:DFI 5E12 and later</td>
</tr>
<tr>
<td>Requests that actions on the digital facility interface (DFI) at the specified</td>
<td>STP:DFI 5E12 and later</td>
</tr>
<tr>
<td>location be stopped.</td>
<td></td>
</tr>
</tbody>
</table>

#### 59.1 Communications Link Digital Facilities Interface

<table>
<thead>
<tr>
<th>Topic/Purpose</th>
<th>Message ID/ Software Release Range</th>
</tr>
</thead>
<tbody>
<tr>
<td>Aborts maintenance actions on an inter-remote switching module (RSM)</td>
<td>ABT:CDFI 5E12 and later</td>
</tr>
<tr>
<td>communication link digital facilities interface (CDFI) circuit.</td>
<td></td>
</tr>
<tr>
<td>Allows maintenance interrupts to occur on an inter-remote switching module</td>
<td>ALW:HDW-CDFI 5E12 and later</td>
</tr>
<tr>
<td>(RSM) communication link digital facilities interface (CDFI) circuit.</td>
<td></td>
</tr>
<tr>
<td>Diagnoses an inter-remote switching module (RSM) communication link digital</td>
<td>DGN:CDFI 5E12 and later</td>
</tr>
<tr>
<td>facilities interface (CDFI) circuit to determine if it is in working order.</td>
<td></td>
</tr>
<tr>
<td>Performs maintenance exercises on an inter-remote switching module (RSM)</td>
<td>EX:CDFI 5E12 and later</td>
</tr>
<tr>
<td>communication link digital facilities interface (CDFI) circuit.</td>
<td></td>
</tr>
<tr>
<td>Requests that an inter-remote switching module (RSM) communication link digital</td>
<td>RMV:CDFI 5E12 and later</td>
</tr>
<tr>
<td>facilities interface (CDFI) circuit be removed from service.</td>
<td></td>
</tr>
<tr>
<td>Requests that an inter-remote switching module (RSM) communication link digital</td>
<td>RST:CDFI 5E12 and later</td>
</tr>
<tr>
<td>facilities interface (CDFI) circuit be restored to service.</td>
<td></td>
</tr>
<tr>
<td>Requests that maintenance actions be stopped on an inter-remote switching</td>
<td>STP:CDFI 5E12 and later</td>
</tr>
<tr>
<td>module (RSM) communication link digital facilities interface (CDFI) circuit.</td>
<td></td>
</tr>
</tbody>
</table>

#### 59.2 Digital Facility Interface Circuit Pair

<table>
<thead>
<tr>
<th>Topic/Purpose</th>
<th>Message ID/ Software Release Range</th>
</tr>
</thead>
<tbody>
<tr>
<td>Aborts maintenance actions on a remote integrated services line unit (RISLU)</td>
<td>ABT:DFIH 5E12 and later</td>
</tr>
<tr>
<td>host/remote digital facility interface (DFIH) circuit pair.</td>
<td></td>
</tr>
<tr>
<td>Allows hardware checks to occur on a remote integrated services line unit (RISLU)</td>
<td>ALW:HDW-DFIH 5E12 and later</td>
</tr>
<tr>
<td>host/remote digital facility interface (DFIH) circuit pair.</td>
<td></td>
</tr>
<tr>
<td>Diagnoses a remote integrated services line unit (RISLU) host/remote digital</td>
<td>DGN:DFIH 5E12 and later</td>
</tr>
<tr>
<td>facility interface circuit pair (DFIH) to determine whether it is in</td>
<td></td>
</tr>
<tr>
<td>satisfactory working order.</td>
<td></td>
</tr>
<tr>
<td>Exercises a remote integrated services line unit (RISLU) host/remote digital</td>
<td>EX:DFIH 5E12 and later</td>
</tr>
<tr>
<td>facility interface</td>
<td></td>
</tr>
</tbody>
</table>
Inhibits hardware checks in a remote integrated services line unit (RISLU) host/remote digital facility interface circuit (DFIH) pair.

Requests that a remote integrated services line unit (RISLU) host/remote digital facility interface circuit pair (DFIH) be removed from service.

Requests that a remote integrated services line unit (RISLU) host/remote digital facility interface circuit pair (DFIH) be restored to the active state.

Requests that maintenance actions on a remote integrated services line unit (RISLU) host/remote digital facility interface (DFIH) circuit pair be stopped.

### 60. DIGITAL NETWORK UNIT - SONET

<table>
<thead>
<tr>
<th>Topic/Purpose</th>
<th>Message ID/ Software Release Range</th>
</tr>
</thead>
<tbody>
<tr>
<td>Requests that maintenance actions be aborted on a digital networking unit - synchronous optical network (DNU-S) common controller (DNUSCC).</td>
<td>ABT:DNUSCC 5E12 and later</td>
</tr>
<tr>
<td>Requests that maintenance actions be aborted on a digital networking unit - synchronous optical network (DNU-S) common data (DNUSCD).</td>
<td>ABT:DNUSCD 5E12 and later</td>
</tr>
<tr>
<td>Requests that the actions on a remote terminal (RT) for the specified unit circuit be aborted.</td>
<td>ABT:RMV-RT 5E12 and later</td>
</tr>
<tr>
<td>Requests that the actions on a remote terminal (RT) for the specified unit circuit be aborted.</td>
<td>ABT:RST-RT 5E12 and later</td>
</tr>
<tr>
<td>Requests that hardware checks be allowed on a digital networking unit - synchronous optical network (DNU-S) common controller (DNUSCC).</td>
<td>ALW:HDW-DNUSCC 5E12 and later</td>
</tr>
<tr>
<td>Requests that diagnostics be executed on a digital networking unit - synchronous optical network (DNU-S) common controller (DNUSCC).</td>
<td>DGN:DNUSCC 5E12 and later</td>
</tr>
<tr>
<td>Requests that the contents of one or more sequential memory locations in the specified digital networking unit - synchronous optical network (SONET) (DNU-S) common controller (CC) be dumped.</td>
<td>DUMP:UT-DNUS 5E12 and later</td>
</tr>
<tr>
<td>Requests that an unconditional call be made to a function using parameters in the specified digital networking unit - SONET (DNU-S).</td>
<td>EXC:UT-DNUS 5E12 and later</td>
</tr>
<tr>
<td>Requests that hardware checks be inhibited on a digital networking unit - synchronous optical network (DNU-S) common controller (DNUSCC).</td>
<td>INH:HDW-DNUSCC 5E12 and later</td>
</tr>
<tr>
<td>Requests that hardware checks be inhibited on a digital networking unit - synchronous optical network (DNU-S) common data (DNUSCD).</td>
<td>INH:HDW-DNUSCD 5E12 and later</td>
</tr>
<tr>
<td>Requests that a value(s) be loaded into the memory of the specified digital networking unit - SONET (DNU-S).</td>
<td>LOAD:UT-DNUS 5E12 and later</td>
</tr>
<tr>
<td>Requests that a digital networking unit - synchronous optical network (DNU-S) common controller (DNUSCC) be removed from service.</td>
<td>RMV:DNUSCC 5E12 and later</td>
</tr>
<tr>
<td>Requests that a digital networking unit - synchronous optical network (DNU-S) common data (DNUSCD) be removed from service.</td>
<td>RMV:DNUSCD 5E12 and later</td>
</tr>
<tr>
<td>Requests that a remote terminal (RT) embedded operations channel (EOC) circuit be removed from service either conditionally, by waiting for it to become idle, or unconditionally, by preempting the current user.</td>
<td>RMV:DNUSEOC 5E12 and later</td>
</tr>
<tr>
<td>Requests that a remote terminal (RT) timeslot management channel (TMC) circuit be removed from service either conditionally, bywaiting for it to become idle, or unconditionally, by preempting the current user.</td>
<td>RMV:DNUSTMC 5E12 and later</td>
</tr>
<tr>
<td>Requests that a digital networking unit - electrical carrier level 1 SONET termination equipment facility (EC1STE) be removed from service.</td>
<td>RMV:EC1STE 5E13 and later</td>
</tr>
<tr>
<td>Requests that a remote terminal (RT) facility (FAC) circuit be removed from service either conditionally, by waiting for it to become idle, or unconditionally, by preempting the current user.</td>
<td>RMV:RTFAC 5E12 and later</td>
</tr>
<tr>
<td>Requests that a digital networking unit - synchronous optical network (DNU-S) common controller (DNUSCC) be restored to service.</td>
<td>RST:DNUSCC 5E12 and later</td>
</tr>
<tr>
<td>Requests that a digital networking unit - synchronous optical network (DNU-S) common data (DNUSCD) be restored to service.</td>
<td>RST:DNUSCD 5E12 and later</td>
</tr>
<tr>
<td>Requests that a remote terminal (RT) embedded operations channel (EOC) circuit be restored.</td>
<td>RST:DNUSEOC 5E12 and later</td>
</tr>
</tbody>
</table>
Requests that a remote terminal (RT) timeslot management channel (TMC) circuit be restored to service. 5E12 and later

Requests that a digital networking unit - electrical carrier level 1 SONET termination equipment facility (EC1STE) be restored to service. 5E12 and later

Requests that a remote terminal (RT) facility (FAC) circuit be restored to service. 5E12 and later

Requests that maintenance actions be stopped on a digital networking unit - synchronous optical network (DNU-S) common controller (DNUSCC). 5E12 and later

Requests that maintenance actions be stopped on a digital networking unit - synchronous optical network (DNU-S) common data (DNUSCD). 5E12 and later

Request that actions on a remote terminal (RT) embedded operations channel (EOC) circuit be stopped. 5E12 and later

Requests that actions on a remote terminal (RT) timeslot Management channel (TMC) circuit be stopped. 5E12 and later

Requests that maintenance actions be stopped on a digital networking unit - electrical carrier level 1 SONET termination equipment (EC1STE) facility. 5E13 and later

Requests that the actions on a remote terminal (RT) for the specified unit circuit be stopped. STP:RMV-RT 5E12 and later

Requests that the actions on a remote terminal (RT) for the specified unit circuit be stopped. STP:RST-RT 5E12 and later

Requests that actions on a remote terminal (RT) facility (FAC) circuit be stopped. 5E12 and later

Requests that the active/standby states of a digital networking unit - synchronous optical network (DNU-S) common controller (DNUSCC) be switched (interchanged). 5E12 and later

Requests that the active/standby states of a digital networking unit - synchronous optical network (DNU-S) common data (DNUSCD) be switched (interchanged). 5E12 and later

Requests that the active and standby states of remote terminal (RT) embedded operations channel (EOC) circuits be switched (interchanged). 5E12 and later

Requests that the active and standby states of remote terminal (RT) timeslot management channel (TMC) circuits be switched (interchanged). 5E12 and later

Requests that a digital networking unit - synchronous optical network (DNU-S) synchronous optical network (SONET) terminating equipment facility (STEFAC) be removed from service. 5E12 only

Requests that a digital networking unit - synchronous optical network (DNU-S) synchronous optical network (SONET) terminating equipment facility (STEFAC) be restored to service. 5E12 only

### 60.1 Synchronous Transport Signal Electrical Interface Facility Interface

<table>
<thead>
<tr>
<th>Topic/Purpose</th>
<th>Message ID/ Software Release Range</th>
</tr>
</thead>
<tbody>
<tr>
<td>Requests that maintenance actions be aborted on a digital networking unit - synchronous optical network (DNU-S) synchronous transport signal electrical interface (STSX-1) facility interface (SFI).</td>
<td>ABT:SFI 5E12 and later</td>
</tr>
<tr>
<td>Requests that hardware checks be allowed on a digital networking unit - synchronous optical network (DNU-S) synchronous transport signal electrical interface (STSX-1) facility interface (SFI).</td>
<td>ALW:HDW-SFI 5E12 and later</td>
</tr>
<tr>
<td>Requests that diagnostics be executed on a digital networking unit - synchronous optical network (DNU-S) synchronous transport signal electrical interface (STSX-1) facility interface (SFI).</td>
<td>DGN:SFI 5E12 and later</td>
</tr>
<tr>
<td>Requests that hardware checks be inhibited on a digital networking unit - synchronous optical network (DNU-S) synchronous transport signal electrical interface (STSX-1) facility interface (SFI).</td>
<td>INH:HDW-SFI 5E12 and later</td>
</tr>
<tr>
<td>Requests that a digital networking unit - synchronous optical network (DNU-S) synchronous transport signal electrical interface (STSX-1) facility interface (SFI) be removed from service.</td>
<td>RMV:SFI 5E12 and later</td>
</tr>
<tr>
<td>Requests that a digital networking unit - synchronous optical network (DNU-S) synchronous transport signal electrical interface (STSX-1) facility interface (SFI) be restored to service.</td>
<td>RST:SFI 5E12 and later</td>
</tr>
<tr>
<td>Requests that maintenance actions be stopped on a digital networking unit - synchronous optical network (DNU-S) synchronous transport signal electrical interface (STSX-1) facility interface (SFI)</td>
<td>STP:SFI 5E12 and later</td>
</tr>
</tbody>
</table>
60.2 Synchronous Transport Signal Facility

<table>
<thead>
<tr>
<th>Topic/Purpose</th>
<th>Message ID/ Software Release Range</th>
</tr>
</thead>
<tbody>
<tr>
<td>This input message is used to verify that the specified receiving synchronous transport signal (STS) path terminating equipment (PTE) is connected to the intended transmitting STS PTE.</td>
<td>OP:PTRC-STSFAC-A 5E13 - 5E15</td>
</tr>
<tr>
<td>This input message is used to verify that the specified receiving synchronous transport signal (STS) path terminating equipment (PTE) is connected to the intended transmitting STS PTE.</td>
<td>OP:PTRC-STSFAC-B 5E16(1) and later</td>
</tr>
<tr>
<td>Requests that a digital networking unit - synchronous optical network (DNU-S) synchronous transport signal facility (STSFAC) be removed from service.</td>
<td>RMV!STSFAC-A 5E12 only</td>
</tr>
<tr>
<td>Requests that a digital networking unit - synchronous optical network (DNU-S) synchronous transport signal facility (STSFAC) be removed from service.</td>
<td>RMV!STSFAC-B 5E13 and later</td>
</tr>
<tr>
<td>Requests that a digital networking unit - synchronous optical network (DNU-S) synchronous transport signal facility (STSFAC) be restored to service.</td>
<td>RST!STSFAC-A 5E12 only</td>
</tr>
<tr>
<td>Requests that a digital networking unit - synchronous optical network (DNU-S) synchronous transport signal facility (STSFAC) be restored to service.</td>
<td>RST!STSFAC-B 5E13 and later</td>
</tr>
<tr>
<td>Requests that maintenance actions be stopped on a digital networking unit - synchronous optical network (DNU-S) synchronous transport signal facility (STSFAC).</td>
<td>STP!STSFAC 5E13 and later</td>
</tr>
</tbody>
</table>

60.3 Transmission Multiplexer

<table>
<thead>
<tr>
<th>Topic/Purpose</th>
<th>Message ID/ Software Release Range</th>
</tr>
</thead>
<tbody>
<tr>
<td>Requests that maintenance actions be aborted on a digital networking unit - synchronous optical network (DNU-S) transmission multiplexer (TMUX).</td>
<td>ABT!TMUX 5E12 and later</td>
</tr>
<tr>
<td>Requests that hardware checks be allowed on a digital networking unit - synchronous optical network (DNU-S) transmission multiplexer (TMUX).</td>
<td>ALW!HDW-TMUX 5E12 and later</td>
</tr>
<tr>
<td>Requests that diagnostics be executed on a digital networking unit - synchronous (DNU-S) optical network transmission multiplexer (TMUX).</td>
<td>DGN!TMUX 5E12 and later</td>
</tr>
<tr>
<td>Requests that the contents of one or more sequential memory locations in the specified digital networking unit - synchronous optical network (SONET) (DNU-S) transmission multiplexer (TMUX) be dumped.</td>
<td>DUMP!UT-TMUX 5E12 and later</td>
</tr>
<tr>
<td>Requests that an unconditional call be made to a function using parameters in the specified digital networking unit - SONET (DNU-S) transmission multiplexer (TMUX).</td>
<td>EXC!UT-TMUX 5E12 and later</td>
</tr>
<tr>
<td>Requests that hardware checks be inhibited on a digital networking unit - synchronous optical network (DNU-S) transmission multiplexer (TMUX).</td>
<td>INH!HDW-TMUX 5E12 and later</td>
</tr>
<tr>
<td>Requests that a value be loaded into the memory of the specified digital networking unit - SONET (DNU-S) transmission multiplexer (TMUX).</td>
<td>LOAD!UT-TMUX 5E12 and later</td>
</tr>
<tr>
<td>Requests that a digital networking unit - synchronous optical network (DNU-S) transmission multiplexer (TMUX) be removed from service.</td>
<td>RMV!TMUX 5E12 and later</td>
</tr>
<tr>
<td>Requests that a digital networking unit - synchronous optical network (DNU-S) transmission multiplexer (TMUX) be restored to service.</td>
<td>RST!TMUX 5E12 and later</td>
</tr>
<tr>
<td>Requests that maintenance actions be stopped on a digital networking unit - synchronous optical network (DNU-S) transmission multiplexer (TMUX).</td>
<td>STP!TMUX 5E12 and later</td>
</tr>
</tbody>
</table>

60.4 Virtual Tributary Level 1 Facility

<table>
<thead>
<tr>
<th>Topic/Purpose</th>
<th>Message ID/ Software Release Range</th>
</tr>
</thead>
<tbody>
<tr>
<td>Requests that a digital networking unit - synchronous optical network (DNU-S) virtual tributary level 1 facility (VT1FAC) be removed from service.</td>
<td>RMV!VT1FAC-A 5E12 only</td>
</tr>
<tr>
<td>Requests that a digital networking unit - synchronous optical network (DNU-S) virtual tributary level 1 facility (VT1FAC) be removed from service.</td>
<td>RMV!VT1FAC-B 5E13 and later</td>
</tr>
<tr>
<td>Requests that a digital networking unit - synchronous optical network (DNU-S) virtual tributary level 1 facility (VT1FAC) be restored to service.</td>
<td>RST!VT1FAC-A 5E12 only</td>
</tr>
<tr>
<td>Requests that a digital networking unit - synchronous optical network (DNU-S) virtual tributary level 1 facility (VT1FAC) be restored to service.</td>
<td>RST!VT1FAC-B 5E13 and later</td>
</tr>
</tbody>
</table>
61. DIGITAL SERVICE CIRCUIT

<table>
<thead>
<tr>
<th>Topic/Purpose</th>
<th>Message ID/ Software Release Range</th>
</tr>
</thead>
<tbody>
<tr>
<td>Requests that maintenance actions be stopped on a digital networking unit - synchronous optical network (DNU-S) virtual tributary level 1 facility (VT1FAC).</td>
<td>STP:VT1FAC 5E13 and later</td>
</tr>
<tr>
<td>Inhibits the hardware error checks performed on the specified digital facility interface (DFI).</td>
<td>INH:HDW-DFI 5E12 and later</td>
</tr>
<tr>
<td>Requests that maintenance actions be stopped on a digital networking unit - synchronous optical network (DNU-S) digital signal level 1 facility (DS1SFAC).</td>
<td>STP:DS1SFAC 5E13 and later</td>
</tr>
<tr>
<td>Requests that a digital service circuit (DSC) be restored.</td>
<td>RST:DSC 5E12 and later</td>
</tr>
</tbody>
</table>

62. DIGITAL SIGNAL LEVEL 1 FACILITY

<table>
<thead>
<tr>
<th>Topic/Purpose</th>
<th>Message ID/ Software Release Range</th>
</tr>
</thead>
<tbody>
<tr>
<td>Requests that maintenance actions be aborted on a digital networking unit - synchronous optical network (DNU-S) digital signal level 1 facility (DS1SFAC).</td>
<td>ABT:DS1SFAC-A 5E12 - 5E13</td>
</tr>
<tr>
<td>Requests that maintenance actions be aborted on a digital networking unit - synchronous optical network (DNU-S) digital signal level 1 facility (DS1SFAC).</td>
<td>ABT:DS1SFAC-B 5E14 and later</td>
</tr>
<tr>
<td>Requests that a digital networking unit - synchronous optical network (DNU-S) digital signal level 1 facility (DS1SFAC) be removed from service.</td>
<td>RMV:DS1SFAC-A 5E12 only</td>
</tr>
<tr>
<td>Requests that a digital networking unit - synchronous optical network (DNU-S) digital signal level 1 facility (DS1SFAC) be removed from service.</td>
<td>RMV:DS1SFAC-B 5E13 and later</td>
</tr>
<tr>
<td>Requests that a digital signal - level 1 (DS1) be restored to service.</td>
<td>RST:DS1 5E16(1) and later</td>
</tr>
<tr>
<td>Requests that a digital networking unit - synchronous optical network (DNU-S) digital signal level 1 facility (DS1SFAC) be restored to service.</td>
<td>RST:DS1SFAC-A 5E12 only</td>
</tr>
<tr>
<td>Requests that a digital networking unit - synchronous optical network (DNU-S) digital signal level 1 facility (DS1SFAC) be restored to service.</td>
<td>RST:DS1SFAC-B 5E13 and later</td>
</tr>
<tr>
<td>Requests that the currently executing maintenance action on a digital signal - level 1 (DS1) be stopped.</td>
<td>STP:DS1 5E16(1) and later</td>
</tr>
<tr>
<td>Requests that maintenance actions be stopped on a digital networking unit - synchronous optical network (DNU-S) digital signal level 1 facility (DS1SFAC).</td>
<td>STP:DS1SFAC 5E13 and later</td>
</tr>
</tbody>
</table>

63. DIRECT LINK NODE

<table>
<thead>
<tr>
<th>Topic/Purpose</th>
<th>Message ID/ Software Release Range</th>
</tr>
</thead>
<tbody>
<tr>
<td>Requests that the common network interface (CNI) automatic direct link node (DLN) heartbeat test be allowed.</td>
<td>ALW:DLNHB 5E12 and later</td>
</tr>
<tr>
<td>Requests that the common network interface (CNI) automatic direct link node (DLN) heartbeat test be inhibited.</td>
<td>INH:DLNHB 5E12 and later</td>
</tr>
<tr>
<td>Requests an initialization of the selected direct link node (DLN) at the specified level.</td>
<td>INIT:DLN 5E12 and later</td>
</tr>
<tr>
<td>Requests a single process purge (SPP) of a named process in a selected direct link node (DLN).</td>
<td>INIT:DLN-SPP-PID 5E12 and later</td>
</tr>
<tr>
<td>Switches the active standby status of the direct link nodes (DLN) on the common network interface (CNI) ring.</td>
<td>SW:DLN 5E12 and later</td>
</tr>
</tbody>
</table>

64. DIRECT SIGNALING

64.1 Direct Signaling Events
Requests that the trapping and printing of direct signaling events (DSE) be turned off.

<table>
<thead>
<tr>
<th>Range</th>
</tr>
</thead>
<tbody>
<tr>
<td>CLR:DSE</td>
</tr>
<tr>
<td>5E12 and later</td>
</tr>
</tbody>
</table>

Requests that the trapping and printing of direct signaling events (DSEs) be turned on.

<table>
<thead>
<tr>
<th>Range</th>
</tr>
</thead>
<tbody>
<tr>
<td>SET:DSE</td>
</tr>
<tr>
<td>5E12 and later</td>
</tr>
</tbody>
</table>

### 64.2 Direct Signaling Translation Test

<table>
<thead>
<tr>
<th>Topic/Purpose</th>
<th>Message ID/ Software Release Range</th>
</tr>
</thead>
<tbody>
<tr>
<td>Requests that a direct signaling translation test (DSTT) be initiated.</td>
<td>EXC:DSTT 5E12 and later</td>
</tr>
</tbody>
</table>

### 65. DIRECT USER INTERFACE

<table>
<thead>
<tr>
<th>Topic/Purpose</th>
<th>Message ID/ Software Release Range</th>
</tr>
</thead>
<tbody>
<tr>
<td>Requests that a specified direct user interface (DUI) be removed device from service.</td>
<td>RMV:DUI 5E12 and later</td>
</tr>
<tr>
<td>Requests that a direct user interface (DUI) device be restored to service.</td>
<td>RST:DUI 5E12 and later</td>
</tr>
</tbody>
</table>

### 65.1 Direct User Interface Controller

<table>
<thead>
<tr>
<th>Topic/Purpose</th>
<th>Message ID/ Software Release Range</th>
</tr>
</thead>
<tbody>
<tr>
<td>Diagnoses the specified direct user interface controller (DUIC).</td>
<td>DGN:DUIC 5E12 and later</td>
</tr>
<tr>
<td>Exercises a direct user interface controller (DUIC) in an interactive diagnostic mode.</td>
<td>EX:DUIC 5E12 and later</td>
</tr>
<tr>
<td>Requests that the specified direct user interface controller (DUIC) be removed from service.</td>
<td>RMV:DUIC 5E12 and later</td>
</tr>
<tr>
<td>Requests that a direct user interface controller (DUIC) be restored to service.</td>
<td>RST:DUIC 5E12 and later</td>
</tr>
</tbody>
</table>

### 66. DIRECTLY CONNECTED OFFICE

<table>
<thead>
<tr>
<th>Topic/Purpose</th>
<th>Message ID/ Software Release Range</th>
</tr>
</thead>
<tbody>
<tr>
<td>Requests a list of all offices that have trunk groups terminating at this switch.</td>
<td>OP:DCOCFC 5E12 and later</td>
</tr>
</tbody>
</table>

### 67. DIRECTLY COUPLED TEST UNIT

#### 67.1 Directly Coupled Test Unit Common Board

<table>
<thead>
<tr>
<th>Topic/Purpose</th>
<th>Message ID/ Software Release Range</th>
</tr>
</thead>
<tbody>
<tr>
<td>Requests that actions on the directly connected test unit common board (DCTUCOM) at the specified location be aborted.</td>
<td>ABT:DCTUCOM 5E12 and later</td>
</tr>
<tr>
<td>Requests that a directly connected unit common board (DCTUCOM) be diagnosed to determine whether it is in satisfactory working order.</td>
<td>DGN:DCTUCOM 5E12 and later</td>
</tr>
<tr>
<td>Interactively diagnoses (exercises) the directly connected test unit common board (DCTUCOM).</td>
<td>EX:DCTUCOM 5E12 and later</td>
</tr>
<tr>
<td>Requests that a directly connected test unit common board (DCTUCOM) circuit be removed from service.</td>
<td>RMV:DCTUCOM 5E12 and later</td>
</tr>
<tr>
<td>Requests that a single directly connected test unit common board (DCTUCOM) circuit be restored to service.</td>
<td>RST:DCTUCOM 5E12 and later</td>
</tr>
<tr>
<td>Requests that actions on the directly connected test unit common board (DCTUCOM) at the</td>
<td>STP:DCTUCOM 5E12 and later</td>
</tr>
</tbody>
</table>
### 67.2 Directly Coupled Test Unit Port Circuit

<table>
<thead>
<tr>
<th>Topic/Purpose</th>
<th>Message ID/ Software Release Range</th>
</tr>
</thead>
<tbody>
<tr>
<td>Requests that actions on the directly connected test unit port (DCTUPORT) circuit at the specified location be aborted.</td>
<td>ABT:DCTUPORT 5E12 and later</td>
</tr>
<tr>
<td>Requests that a directly connected test unit port circuit (DCTUPORT) be diagnosed to determine whether it is in satisfactory working order.</td>
<td>DGN:DCTUPORT 5E12 and later</td>
</tr>
<tr>
<td>Requests interactive diagnostics (exercises) of the directly connected test unit port circuit (DCTUPORT).</td>
<td>EX:DCTUPORT 5E12 and later</td>
</tr>
<tr>
<td>Requests that a directly connected test unit port circuit (DCTUPORT) be removed from service.</td>
<td>RMV:DCTUPORT 5E12 and later</td>
</tr>
<tr>
<td>Requests that a single directly connected test unit port circuit (DCTUPORT) circuit be restored to service.</td>
<td>RST:DCTUPORT 5E12 and later</td>
</tr>
<tr>
<td>Requests that actions on the directly connected test unit port (DCTUPORT) at the specified location be stopped.</td>
<td>STP:DCTUPORT 5E12 and later</td>
</tr>
</tbody>
</table>

### 67.3 Equipment Access Network

<table>
<thead>
<tr>
<th>Topic/Purpose</th>
<th>Message ID/ Software Release Range</th>
</tr>
</thead>
<tbody>
<tr>
<td>Requests that actions on the equipment access network (EAN) at the specified location be aborted.</td>
<td>ABT:EAN 5E12 and later</td>
</tr>
<tr>
<td>Requests that an equipment access network (EAN) be diagnosed to determine whether it is in satisfactory working order.</td>
<td>DGN:EAN 5E12 and later</td>
</tr>
<tr>
<td>Interactively diagnoses (exercises) the equipment access network (EAN).</td>
<td>EX:EAN 5E12 and later</td>
</tr>
<tr>
<td>Requests that an equipment access network (EAN) be removed from service.</td>
<td>RMV:EAN 5E12 and later</td>
</tr>
<tr>
<td>Requests that a single equipment access network (EAN) circuit be restored to service.</td>
<td>RST:EAN 5E12 and later</td>
</tr>
<tr>
<td>Requests that actions on the equipment access network (EAN) at the specified location be stopped.</td>
<td>STP:EAN 5E12 and later</td>
</tr>
</tbody>
</table>

### 67.4 Precision Measurement Unit

<table>
<thead>
<tr>
<th>Topic/Purpose</th>
<th>Message ID/ Software Release Range</th>
</tr>
</thead>
<tbody>
<tr>
<td>Requests that actions on the precision measurement unit (PMU) be aborted at the specified location.</td>
<td>ABT:PMU 5E12 and later</td>
</tr>
<tr>
<td>Requests that a precision measurement unit (PMU) be diagnosed to determine whether it is in satisfactory working order.</td>
<td>DGN:PMU 5E12 and later</td>
</tr>
<tr>
<td>Requests interactive diagnostics (exercises) of the precision measurement unit (PMU).</td>
<td>EX:PMU 5E12 and later</td>
</tr>
<tr>
<td>Requests that a precision measurement unit (PMU) be removed from service.</td>
<td>RMV:PMU 5E12 and later</td>
</tr>
<tr>
<td>Requests a single precision measurement unit (PMU) circuit be conditionally or unconditionally restored to service.</td>
<td>RST:PMU 5E12 and later</td>
</tr>
<tr>
<td>Requests that actions on the pulse metering unit (PMU) at the specified location be stopped.</td>
<td>STP:PMU 5E12 and later</td>
</tr>
</tbody>
</table>

### 68. DISK FILE CONTROLLER

<table>
<thead>
<tr>
<th>Topic/Purpose</th>
<th>Message ID/ Software Release Range</th>
</tr>
</thead>
<tbody>
<tr>
<td>Requests that the specified file controller (DFC) be diagnosed.</td>
<td>DGN:DFC 5E12 and later</td>
</tr>
<tr>
<td>Exercises a disk file controller (DFC) in an interactive diagnostic mode.</td>
<td>EX:DFC</td>
</tr>
</tbody>
</table>
### 69. DISTRIBUTE POINT BOARD

<table>
<thead>
<tr>
<th>Topic/Purpose</th>
<th>Message ID/ Software Release Range</th>
</tr>
</thead>
<tbody>
<tr>
<td>Requests that actions on the distribute point board (DIST) at the specified location be aborted.</td>
<td>ABT:DIST 5E12 and later</td>
</tr>
<tr>
<td>Requests that a distribute (DIST) point board be diagnosed to determine whether it is in satisfactory working order.</td>
<td>DGN:DIST 5E12 and later</td>
</tr>
<tr>
<td>Interactively diagnoses (exercises) the distribute point board (DIST).</td>
<td>EX:DIST 5E12 and later</td>
</tr>
<tr>
<td>Requests that a distribute point board (DIST) be removed from service.</td>
<td>RMV:DIST 5E12 and later</td>
</tr>
<tr>
<td>Requests that a distribute point board (DIST) in a metallic service unit be restored to service.</td>
<td>RST:DIST 5E12 and later</td>
</tr>
<tr>
<td>Requests that actions on the distribute point board (DIST) at the specified location be stopped.</td>
<td>STP:DIST 5E12 and later</td>
</tr>
</tbody>
</table>

### 70. DISTRIBUTING FRAME TEST ACCESS CIRCUIT

<table>
<thead>
<tr>
<th>Topic/Purpose</th>
<th>Message ID/ Software Release Range</th>
</tr>
</thead>
<tbody>
<tr>
<td>Requests that currently running actions be aborted without cleaning up on the distributing frame test access circuit (DFTAC).</td>
<td>ABT:DFTAC 5E12 and later</td>
</tr>
<tr>
<td>Requests that the distributing frame test access circuit (DFTAC) be diagnosed to determine whether it is in satisfactory working order.</td>
<td>DGN:DFTAC 5E12 and later</td>
</tr>
<tr>
<td>Interactively diagnoses (exercises) the distributing frame test access circuit (DFTAC) to determine whether it is in satisfactory working order.</td>
<td>EX:DFTAC 5E12 and later</td>
</tr>
<tr>
<td>Inhibits the hardware error checks performed on the specified distributing frame test access circuit (DFTAC).</td>
<td>INH:HDW-DFTAC 5E12 and later</td>
</tr>
<tr>
<td>Requests that the distributing frame test access circuit (DFTAC) be removed from service.</td>
<td>RMV:DFTAC 5E12 and later</td>
</tr>
<tr>
<td>Requests that the distributing frame test access circuit (DFTAC) be restored to the active state.</td>
<td>RST:DFTAC 5E12 and later</td>
</tr>
<tr>
<td>Requests that currently running actions on the distributing frame test access circuit (DFTAC) be stopped.</td>
<td>STP:DFTAC 5E12 and later</td>
</tr>
</tbody>
</table>

### 71. DIVISION OF REVENUE HOURLY REPORT

<table>
<thead>
<tr>
<th>Topic/Purpose</th>
<th>Message ID/ Software Release Range</th>
</tr>
</thead>
<tbody>
<tr>
<td>Allows the division of revenue hourly (DRHR) report to be output to the traffic channel.</td>
<td>ALW:DRHR 5E12 and later</td>
</tr>
<tr>
<td>Inhibits the division of revenue hourly report (DRHR) from being output to the traffic channel.</td>
<td>INH:DRHR 5E12 and later</td>
</tr>
<tr>
<td>Requests either the collection (CLCT) or the print (PRINT) status of the division of revenue hourly report (DRHR), plant hour (PLNTHR), traffic<del>15 (TRFC15), and all sections of the traffic</del>30 (TRFC30) reports.</td>
<td>OP:MEASTAT-A 5E12 - 5E13</td>
</tr>
<tr>
<td>Requests either the collection (CLCT) or the print (PRINT) status of the division of revenue</td>
<td>OP:MEASTAT-B</td>
</tr>
</tbody>
</table>
hourly report (DRHR), plant hour (PLNTHR), traffic 15 (TRFC15), and all sections of the traffic 30 (TRFC30) reports.

### 72. DMERT APPLICATION PROCESS

<table>
<thead>
<tr>
<th>Topic/Purpose</th>
<th>Message ID/ Software Release Range</th>
</tr>
</thead>
<tbody>
<tr>
<td>Allows a kernel process environment audit to execute automatically or allows an audit cycle in the administrative module (AM) to execute routinely.</td>
<td>ALW:AUD-ENV 5E12 and later</td>
</tr>
<tr>
<td>Requests a kernel process environment (OKP or SMKP) audit to be run in the administrative module.</td>
<td>AUD:ENV 5E12 and later</td>
</tr>
<tr>
<td>Inhibits the automatic execution of a kernel process environment (OKP or SMKP) audit or the routine execution of the cycle in the administrative module (AM).</td>
<td>INH:AUD-ENV 5E12 and later</td>
</tr>
<tr>
<td>Requests the status of a specific audit, all audits or all inhibited audits for a particular kernel process environment.</td>
<td>OP:ST-AUD-ENV-A 5E12 - 5E15</td>
</tr>
<tr>
<td>Requests the status of a specific audit, all audits or all inhibited audits for a particular kernel process environment.</td>
<td>OP:ST-AUD-ENV-B 5E16(1) and later</td>
</tr>
<tr>
<td>Requests a report of the status of a specific audit, all audits, or all inhibited audits for a particular switching module (SM) or range of SMs.</td>
<td>OP:ST-AUD-SM-A 5E12 - 5E15</td>
</tr>
<tr>
<td>Requests a report of the status of a specific audit, all audits, or all inhibited audits for a particular switching module (SM) or range of SMs.</td>
<td>OP:ST-AUD-SM-B 5E16(1) and later</td>
</tr>
<tr>
<td>Requests that the currently executing kernel process environment (OKP or SMKP) audit in the administrative module (AM) be stopped.</td>
<td>STP:AUD-ENV 5E12 and later</td>
</tr>
</tbody>
</table>

### 73. DUAL LINK INTERFACE

<table>
<thead>
<tr>
<th>Topic/Purpose</th>
<th>Message ID/ Software Release Range</th>
</tr>
</thead>
<tbody>
<tr>
<td>Aborts an action on a specific dual link interface (DLI) or range of DLIs in the specified office network and timing complex (ONTC).</td>
<td>ABT:DLI 5E12 and later</td>
</tr>
<tr>
<td>Diagnoses a specific dual link interface (DLI) or a range of DLIs in a switching module (SM) on a specified side of the office network and timing complex (ONTC), and determines if in satisfactory working order.</td>
<td>DGN:DLI 5E12 and later</td>
</tr>
<tr>
<td>Requests that the dual link interface (DLI) be exercised in a switching module (SM) on the specified office network and timing complex (ONTC) side in an interactive mode.</td>
<td>EX:DLI 5E12 and later</td>
</tr>
<tr>
<td>Requests a removal of a specific dual link interface (DLI) and places it in the 'OOS MAN RMV' state.</td>
<td>RMV:DLI 5E12 and later</td>
</tr>
<tr>
<td>Requests that a specific dual link interface (DLI) or range of DLIs be restored to service.</td>
<td>RST:DLI 5E12 and later</td>
</tr>
<tr>
<td>Requests that an action on a specific dual link interface (DLI) or range of DLIs in the specified office network and timing complex (ONTC) be stopped.</td>
<td>STP:DLI 5E12 and later</td>
</tr>
</tbody>
</table>

### 74. DUAL SERIAL CHANNEL/COMPUTER INTERCONNECT

<table>
<thead>
<tr>
<th>Topic/Purpose</th>
<th>Message ID/ Software Release Range</th>
</tr>
</thead>
<tbody>
<tr>
<td>Diagnoses the specified dual serial channel/computer interconnect (DCI).</td>
<td>DGN:DCI 5E12 and later</td>
</tr>
<tr>
<td>Exercises a dual serial channel/computer interconnect (DCI) in an interactive diagnostic mode.</td>
<td>EX:DCI 5E12 and later</td>
</tr>
<tr>
<td>Removes the specified dual serial channel/computer interconnect (DCI) from service.</td>
<td>RMV:DCI 5E12 and later</td>
</tr>
<tr>
<td>Restores a dual serial channel/computer interconnect (DCI), conditionally or unconditionally to service.</td>
<td>RST:DCI 5E12 and later</td>
</tr>
<tr>
<td>Requests a termination of the DCI process.</td>
<td>STOP:DCI 5E12 and later</td>
</tr>
</tbody>
</table>

### 75. DUMP

<table>
<thead>
<tr>
<th>Topic/Purpose</th>
<th>Message ID/ Software Release Range</th>
</tr>
</thead>
<tbody>
<tr>
<td>Range</td>
<td>Description</td>
</tr>
<tr>
<td>-------</td>
<td>-------------</td>
</tr>
<tr>
<td>DGN: MHD</td>
<td>Diagnoses the specified moving head disk (MHD).</td>
</tr>
<tr>
<td>DUMP: ADDR</td>
<td>Requests that the contents of a specified range of virtual addresses in the administrative module (AM) main memory be dumped as an action associated with a breakpoint.</td>
</tr>
<tr>
<td>DUMP: CACHE</td>
<td>Dumps the contents of the offline cache into administrative module (AM) processor main memory.</td>
</tr>
<tr>
<td>DUMP: F-ALL</td>
<td>Requests that the contents of an ASCII file be dumped.</td>
</tr>
<tr>
<td>DUMP: F-PARTL</td>
<td>Dumps the contents of a file in the specified format.</td>
</tr>
<tr>
<td>DUMP: F-FORMAT</td>
<td>Requests that the contents of a specified range of virtual addresses in the administrative module (AM) main memory be dumped as an action associated with a breakpoint.</td>
</tr>
<tr>
<td>DUMP: KERN</td>
<td>Dumps the contents of the offline cache into administrative module (AM) processor main memory.</td>
</tr>
<tr>
<td>DUMP: F-PARTL</td>
<td>Requests that the contents of a specified range of virtual addresses in the administrative module (AM) main memory be dumped as an action associated with a breakpoint.</td>
</tr>
<tr>
<td>DUMP: PMEM</td>
<td>Dumps the contents of a specified range of virtual addresses in administrative module (AM) main memory in the address space of the process with the specified process identifier.</td>
</tr>
<tr>
<td>DUMP: REG</td>
<td>Dumps the contents of one or more registers, either as an immediate action, or as an action associated with a breakpoint.</td>
</tr>
<tr>
<td>DUMP: SMEAS</td>
<td>Requests a dump of the common channel interoffice signaling (CCIS) signaling measurements (SMEAS) from history files.</td>
</tr>
<tr>
<td>DUMP: UID</td>
<td>Dumps the contents of a specified range of virtual addresses in administrative module (AM) main memory in the address space of the process with the specified utility identifier.</td>
</tr>
<tr>
<td>DUMP: UT-IDCU</td>
<td>Requests that the contents of one or more sequential memory locations in the specified integrated digital carrier unit (IDCU) be dumped.</td>
</tr>
<tr>
<td>DUMP: UT-IDCULSI</td>
<td>Requests that the contents of one or more sequential memory locations in the specified integrated digital carrier unit (IDCU) loop side interface (LSI) be dumped.</td>
</tr>
<tr>
<td>DUMP: UVAR</td>
<td>Dumps the contents of one or more administrative module (AM) generic access package (GRASP) utility variables either as an immediate message or as an action associated with a breakpoint.</td>
</tr>
</tbody>
</table>

### 76. DYNAMIC OVERLOAD CONTROLS

<table>
<thead>
<tr>
<th>Range</th>
<th>Message ID/ Software Release</th>
</tr>
</thead>
<tbody>
<tr>
<td>ALW: DOC</td>
<td>Requests that dynamic overload control (DOC) treatment be allowed upon the reception of DOC signals for a specified trunk group.</td>
</tr>
<tr>
<td>ASGN: DOC-A</td>
<td>Requests that a dynamic overload control (DOC) response category and action be assigned for a specified common channel signaling (CCS) trunk group.</td>
</tr>
<tr>
<td>ASGN: DOC-B</td>
<td>Requests that a dynamic overload control (DOC) response category and action be assigned for a specified common channel signaling (CCS) trunk group.</td>
</tr>
<tr>
<td>ASGN: DOC-C</td>
<td>Requests that a dynamic overload control (DOC) response category and action be assigned for a specified common channel signaling (CCS) trunk group.</td>
</tr>
<tr>
<td>CLR: DOC</td>
<td>Requests that a single dynamic overload control (DOC) be cleared on a specified trunk group.</td>
</tr>
<tr>
<td>INH: DOC</td>
<td>Requests that the dynamic overload control (DOC) treatment be inhibited upon the reception of DOC signals on a per trunk group basis.</td>
</tr>
</tbody>
</table>

#### 76.1 Dynamic Overload Controls and Selective Incoming Load Control

<table>
<thead>
<tr>
<th>Range</th>
<th>Message ID/ Software Release</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
</tr>
</tbody>
</table>

---

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77. EMBEDDED OPERATIONS CHANNEL

<table>
<thead>
<tr>
<th>Topic/Purpose</th>
<th>Message ID/ Software Release Range</th>
</tr>
</thead>
<tbody>
<tr>
<td>Requests that the transmission of dynamic overload control (DOC) signals and the application of selective incoming load control (SILC) be allowed.</td>
<td>ALW:DSILC 5E12 and later</td>
</tr>
<tr>
<td>Requests that the transmission of dynamic overload control (DOC) signals and the application of selective incoming load control (SILC) be inhibited.</td>
<td>INH:DSILC 5E12 and later</td>
</tr>
</tbody>
</table>

78. EMERGENCY ACTION INTERFACE

<table>
<thead>
<tr>
<th>Topic/Purpose</th>
<th>Message ID/ Software Release Range</th>
</tr>
</thead>
<tbody>
<tr>
<td>Allows the logging and processing of emergency action interface (EAI) error interrupts from the 3B21D computer control unit (CU) specified in the identification field.</td>
<td>ALW:EAIINT 5E12 and later</td>
</tr>
<tr>
<td>Inhibits the logging and processing of emergency action interface (EAI) error interrupts from the 3B21D computer control unit (CU) specified in the identification field.</td>
<td>INH:EAIINT 5E12 and later</td>
</tr>
</tbody>
</table>

79. EMERGENCY DUMP

<table>
<thead>
<tr>
<th>Topic/Purpose</th>
<th>Message ID/ Software Release Range</th>
</tr>
</thead>
<tbody>
<tr>
<td>Clears the emergency dump partition status flag.</td>
<td>CLR:EMERDMP 5E12 and later</td>
</tr>
<tr>
<td>Requests the status of the emergency dump partition on the disk: full or empty.</td>
<td>OP:EMERSTAT 5E12 and later</td>
</tr>
</tbody>
</table>

80. ENHANCED 911
### 81. EQUIPMENT CONFIGURATION DATA

<table>
<thead>
<tr>
<th>Topic/Purpose</th>
<th>Message ID/ Software Release</th>
<th>Range</th>
</tr>
</thead>
<tbody>
<tr>
<td>Requests that the execution of the on-switch equipment configuration database (ECD) audit be allowed.</td>
<td>ALW:ECDAUD</td>
<td>5E12 and later</td>
</tr>
<tr>
<td>Requests that the equipment configuration database (ECD) be audited.</td>
<td>AUD:ECD</td>
<td>5E12 and later</td>
</tr>
<tr>
<td>Compares the text portions of the disk and core images of a non-killable process.</td>
<td>CMPR:DISK-CORE</td>
<td>5E12 and later</td>
</tr>
<tr>
<td>Requests the immediate execution of the on-switch equipment configuration database (ECD) audit to audit the data in the root ECD database.</td>
<td>EXE:ECDAUD</td>
<td>5E12 and later</td>
</tr>
<tr>
<td>Requests that the execution of the on-switch equipment configuration database (ECD) audit be inhibited.</td>
<td>INH:ECDAUD</td>
<td>5E12 and later</td>
</tr>
<tr>
<td>Requests that the status of a previous execution or a currently running on-switch ECD audit be output.</td>
<td>OP:ECDAUD</td>
<td>5E12 and later</td>
</tr>
<tr>
<td>Requests one or all of the available output classes in the equipment configuration database (ECD) and the device(s) assigned to these output classes.</td>
<td>OP:OUTCLS</td>
<td>5E12 and later</td>
</tr>
<tr>
<td>Requests displays of information about all the reports available in the measurement output control (MOC) schedule table (SCHD).</td>
<td>OP:SCHD</td>
<td>5E12 and later</td>
</tr>
<tr>
<td>Request that the on-switch ECD audit be scheduled for automatic execution.</td>
<td>SCHED:ECDAUD</td>
<td>5E12 and later</td>
</tr>
<tr>
<td>Requests that a currently running on-switch ECD audit be terminated.</td>
<td>STOP:ECDAUD</td>
<td>5E12 and later</td>
</tr>
</tbody>
</table>

### 82. ERROR SOURCES

<table>
<thead>
<tr>
<th>Topic/Purpose</th>
<th>Message ID/ Software Release</th>
<th>Range</th>
</tr>
</thead>
<tbody>
<tr>
<td>Allows the logging and processing of all administrative module (AM) computer error sources.</td>
<td>ALW:ERRCHK</td>
<td>5E12 and later</td>
</tr>
<tr>
<td>Requests that the logging and processing of administrative module (AM) error interrupts attached to the unit specified in the identification field be allowed.</td>
<td>ALW:ERRINT</td>
<td>5E12 and later</td>
</tr>
<tr>
<td>Requests that the logging and processing of errors specific to the pseudo-nodes representing the administrative module (AM) control unit (CU) communities be allowed.</td>
<td>ALW:ERRSRC</td>
<td>5E12 and later</td>
</tr>
</tbody>
</table>

### 83. ESSENTIAL SERVICE PROTECTION

<table>
<thead>
<tr>
<th>Topic/Purpose</th>
<th>Message ID/ Software Release</th>
<th>Range</th>
</tr>
</thead>
<tbody>
<tr>
<td>Requests that essential service protection (ESP) be enabled.</td>
<td>ALW:ESP</td>
<td>5E12 and later</td>
</tr>
<tr>
<td>Requests that the essential service protection (ESP) be inhibited.</td>
<td>INH:ESP</td>
<td>5E12 and later</td>
</tr>
</tbody>
</table>

### 84. EXTERNAL SANITY MONITOR

<table>
<thead>
<tr>
<th>Topic/Purpose</th>
<th>Message ID/ Software Release</th>
<th>Range</th>
</tr>
</thead>
<tbody>
<tr>
<td>Requests that the external sanity monitor (ESM) alarm be cleared.</td>
<td>CLR:ESM</td>
<td></td>
</tr>
</tbody>
</table>
85. FACILITY PERFORMANCE MONITORING ALERT

<table>
<thead>
<tr>
<th>Topic/Purpose</th>
<th>Message ID/ Software Release Range</th>
</tr>
</thead>
<tbody>
<tr>
<td>Request to inhibit reports of transmission facility performance monitoring (PM) threshold crossing alerts (refer to the REPT:FAC output message) for facilities terminated on a digital facility interface (DFI) model 2 (DFI-2), an integrated digital carrier unit (IDCU), or a digital networking unit - synchronous optical network (SONET) (DNU-S).</td>
<td>INH:FAC-A 5E12 only</td>
</tr>
<tr>
<td>Request to inhibit reports of transmission facility performance monitoring (PM) threshold crossing alerts (refer to the REPT:FAC output message) for facilities terminated on a digital facility interface (DFI) model 2 (DFI-2), an integrated digital carrier unit (IDCU), or a digital networking unit - synchronous optical network (SONET) (DNU-S) number.</td>
<td>INH:FAC-B 5E13 - 5E15</td>
</tr>
<tr>
<td>Request to inhibit reports of transmission facility performance monitoring (PM) threshold crossing alerts (refer to the REPT:FAC output message) for facilities terminated on a digital facility interface (DFI) model 2 (DFI-2), an integrated digital carrier unit (IDCU), an optical interface unit (OIU), or a digital networking unit - synchronous optical network (SONET) (DNU-S) number.</td>
<td>INH:FAC-C 5E16(1) only</td>
</tr>
<tr>
<td>Request to inhibit reports of transmission facility performance monitoring (PM) threshold crossing alerts (refer to the REPT:FAC output message) for facilities terminated on a digital facility interface (DFI) model 2 (DFI-2), an integrated digital carrier unit (IDCU), an optical interface unit (OIU), or a digital networking unit - synchronous optical network (SONET) (DNU-S) number.</td>
<td>INH:FAC-D 5E16(2) and later</td>
</tr>
</tbody>
</table>

86. FAULT ANALYSIS

86.1 Fault Analysis Trouble Locating Procedure

<table>
<thead>
<tr>
<th>Topic/Purpose</th>
<th>Message ID/ Software Release Range</th>
</tr>
</thead>
<tbody>
<tr>
<td>Requests that the fault analysis trouble locating procedure (FATLP) tool be run.</td>
<td>RCV:M-FATLP 5E15 and later</td>
</tr>
</tbody>
</table>

87. FEATURE ACTIVATION COUNTING AND RECONCILIATION

<table>
<thead>
<tr>
<th>Topic/Purpose</th>
<th>Message ID/ Software Release Range</th>
</tr>
</thead>
<tbody>
<tr>
<td>This command is associated with a secured or proprietary feature.</td>
<td>ALW:EO5REPT 5E14 - 5E15</td>
</tr>
<tr>
<td>This message is associated with a secured or proprietary feature.</td>
<td>ALW:ESQREPT 5E15 and later</td>
</tr>
<tr>
<td>Requests that a scheduled feature activation counting and reconciliation (FACR) entry be removed.</td>
<td>DEL:FACR 5E12 and later</td>
</tr>
<tr>
<td>Requests that the feature activation counting and reconciliation (FACR) audit be started.</td>
<td>EXC:FACR 5E12 and later</td>
</tr>
<tr>
<td>This command is associated with a secured or proprietary feature.</td>
<td>INH:EO5REPT 5E14 - 5E15</td>
</tr>
<tr>
<td>This message is associated with a secured or proprietary feature.</td>
<td>INH:ESQREPT 5E15 and later</td>
</tr>
<tr>
<td>Format 1 requests that the password for retrieval of the feature activation counting and reconciliation (FACR) output files be initialized.</td>
<td>INIT:FACR 5E12 and later</td>
</tr>
<tr>
<td>Requests for a report on either the state of the feature activation counting and reconciliation (FACR) audit or what scheduled requests have been made for execution of the FACR audit.</td>
<td>OP:FACR 5E12 and later</td>
</tr>
<tr>
<td>Requests that the feature activation counting and reconciliation (FACR) audit be scheduled for execution at a specific date and hour.</td>
<td>SCHED:FACR 5E12 and later</td>
</tr>
<tr>
<td>Requests that a running feature activation counting and reconciliation (FACR) audit be terminated.</td>
<td>STP:FACR 5E12 and later</td>
</tr>
</tbody>
</table>
## 88. FILES

<table>
<thead>
<tr>
<th>Topic/Purpose</th>
<th>Message ID/ Software Release Range</th>
</tr>
</thead>
<tbody>
<tr>
<td>Requests that a simple existence audit of files on the disks be run.</td>
<td>AUD:FILES 5E12 and later</td>
</tr>
<tr>
<td>Appends one line of user-supplied text at a specified location in a regular ASCII file.</td>
<td>IN:F-APND 5E12 and later</td>
</tr>
<tr>
<td>Deletes one or more lines from a regular ASCII file.</td>
<td>IN:F-DEL 5E12 and later</td>
</tr>
<tr>
<td>Replaces one or more lines of a regular ASCII file with one line of user-supplied text.</td>
<td>IN:F-REPL 5E12 and later</td>
</tr>
<tr>
<td>Reports the full pathname of a file in a mounted file system.</td>
<td>OP:FNNAME 5E12 and later</td>
</tr>
</tbody>
</table>

## 89. FILE SYSTEMS

<table>
<thead>
<tr>
<th>Topic/Purpose</th>
<th>Message ID/ Software Release Range</th>
</tr>
</thead>
<tbody>
<tr>
<td>Requests that the access permissions of a specific file be changed.</td>
<td>ALW:FSYS-ACCESS 5E12 and later</td>
</tr>
<tr>
<td>Allows a removable file system to be mounted.</td>
<td>ALW:FSYS-MOUNT 5E12 and later</td>
</tr>
<tr>
<td>Requests that the owner and group of a specific file be changed.</td>
<td>ALW:FSYS-OWNER 5E12 and later</td>
</tr>
<tr>
<td>Removes a directory from the file system.</td>
<td>CLR:FSYS-DIR 5E12 and later</td>
</tr>
<tr>
<td>Request that a file be removed from a directory.</td>
<td>CLR:FSYS-FILE 5E12 and later</td>
</tr>
<tr>
<td>Requests that a specific file be moved into a contiguous area.</td>
<td>COPY:FSYS-CFILE 5E12 and later</td>
</tr>
<tr>
<td>Requests that a specific file be copied to another file or directory.</td>
<td>COPY:FSYS-FILE 5E12 and later</td>
</tr>
<tr>
<td>Creates a specified directory with read, write, and execute permissions for the owner, group and others (mode 777).</td>
<td>IN:FSYS-DIR 5E12 and later</td>
</tr>
<tr>
<td>Inhibits the use of a previously mounted file system.</td>
<td>INH:FSYS-UMOUNT 5E12 and later</td>
</tr>
<tr>
<td>Requests the number of blocks contained in all files and directories within each specified directory or filename.</td>
<td>OP:ST-DISKUSE 5E12 and later</td>
</tr>
<tr>
<td>Requests information about all of the mounted file systems.</td>
<td>OP:ST-FILESYS 5E12 and later</td>
</tr>
<tr>
<td>Requests the number of free blocks and free inodes available for online file systems.</td>
<td>OP:ST-FREEDISK 5E12 and later</td>
</tr>
<tr>
<td>Requests the contents of a specific directory or file.</td>
<td>OP:ST-LISTDIR 5E12 and later</td>
</tr>
<tr>
<td>Requests a 16-bit checksum for a specified file, and prints the number of blocks in the file.</td>
<td>OP:ST-SUM 5E12 and later</td>
</tr>
<tr>
<td>Requests a report indicating the space available in the specified file system be generated.</td>
<td>REPT:SPACE 5E12 and later</td>
</tr>
</tbody>
</table>

## 90. FIVE MINUTE SURVEILLANCE

<table>
<thead>
<tr>
<th>Topic/Purpose</th>
<th>Message ID/ Software Release Range</th>
</tr>
</thead>
<tbody>
<tr>
<td>Requests that a package be deleted from the set of five-minute (M5) surveillance data packages for the on-site network management channel.</td>
<td>CLR:M5-A 5E12 only</td>
</tr>
<tr>
<td>Requests that a package be deleted from the set of five-minute (M5) surveillance data packages for the on-site network management channel.</td>
<td>CLR:M5-B 5E13 only</td>
</tr>
<tr>
<td>Requests that a package be deleted from the set of five-minute (M5) surveillance data packages for the on-site network management channel.</td>
<td>CLR:M5-C 5E14 only</td>
</tr>
<tr>
<td>Topic/Purpose</td>
<td>Message ID/ Software Release Range</td>
</tr>
<tr>
<td>--------------</td>
<td>-----------------------------------</td>
</tr>
<tr>
<td>Clear a specific five-minute (M5) surveillance data package from the on-site network management channel.</td>
<td>CLR:M5-D 5E15 - 5E16(1)</td>
</tr>
<tr>
<td>Clear a specific five-minute (M5) surveillance data package from the on-site network management channel.</td>
<td>CLR:M5-E 5E16(2) and later</td>
</tr>
<tr>
<td>Requests the five-minute surveillance packages (PKG) assigned for both the remote network management system (RNMS) (the primary channel) and on-site channel (the backup channel).</td>
<td>OP:M5PKG-A 5E12 - 5E15</td>
</tr>
<tr>
<td>Requests that a package be added to the five-minute (M5) surveillance data set of packages for the on-site network management channel.</td>
<td>SET:M5-A 5E12 only</td>
</tr>
<tr>
<td>Requests that the specified side of the message switch control unit (MSCU) be forced active.</td>
<td>SET:M5-B 5E13 only</td>
</tr>
<tr>
<td>Requests that the specified side of the message switch control unit (MSCU) be forced active.</td>
<td>SET:M5-C 5E14 only</td>
</tr>
<tr>
<td>Requests that the specified side of the message switch control unit (MSCU) be forced active.</td>
<td>SET:M5-D 5E15 - 5E16(1)</td>
</tr>
<tr>
<td>Requests that the specified side of the message switch control unit (MSCU) be forced active.</td>
<td>SET:M5-E 5E16(2) and later</td>
</tr>
</tbody>
</table>

### 91. FORCED CONFIGURATION

<table>
<thead>
<tr>
<th>Topic/Purpose</th>
<th>Message ID/ Software Release Range</th>
</tr>
</thead>
<tbody>
<tr>
<td>Clears the forced configuration of the message switch control unit (MSCU).</td>
<td>CLR:FRC-MSCU 5E12 and later</td>
</tr>
<tr>
<td>Clears the forced configuration on the office network and timing complex common unit (ONTCCOM).</td>
<td>CLR:FRC-ONTCCOM 5E12 and later</td>
</tr>
<tr>
<td>Clears the &quot;force&quot; on a particular function pack pair of a TRCU3 circuit.</td>
<td>CLR:FRC-TRCU3 5E12 and later</td>
</tr>
<tr>
<td>Requests that the specified side of the message switch control unit (MSCU) be forced active.</td>
<td>SET:FRC-MSCU 5E12 and later</td>
</tr>
<tr>
<td>Requests that the specified side of the office network and timing complex common unit (ONTCCOM) be forced active.</td>
<td>SET:FRC-ONTCCOM 5E12 and later</td>
</tr>
<tr>
<td>This request is used to &quot;force&quot; active a particular function pack pair of a transmission rate conversion unit - model III (TRCU3) circuit.</td>
<td>SET:FRC-TRCU3 5E12 and later</td>
</tr>
</tbody>
</table>

### 92. FOUNDATION PERIPHERAL CONTROLLER

<table>
<thead>
<tr>
<th>Topic/Purpose</th>
<th>Message ID/ Software Release Range</th>
</tr>
</thead>
<tbody>
<tr>
<td>Aborts actions on the specified foundation peripheral controller (FPC).</td>
<td>ABT:FPC 5E12 and later</td>
</tr>
<tr>
<td>Requests that hardware error checks be allowed to be performed on the specified foundation peripheral controller (FPC).</td>
<td>ALW:HDW-FPC 5E12 and later</td>
</tr>
<tr>
<td>Requests diagnostics on a foundation peripheral controller (FPC) to determine if it is in satisfactory working order.</td>
<td>DGN:FPC 5E12 and later</td>
</tr>
<tr>
<td>Requests that the contents of one or more sequential memory location in the specified foundation peripheral controller (FPC) be dumped.</td>
<td>DUMP:UT-FPC-A 5E12 - 5E14</td>
</tr>
</tbody>
</table>
Requests that the contents of one or more sequential memory location in the specified foundation peripheral controller (FPC) be dumped.  
DUMP:UT-FPC-B  
5E15 and later

Requests that the foundation peripheral controller (FPC) be exercised in an interactive mode.  
EX:FPC  
5E12 and later

Requests an unconditional call to a function using parameters in the specified foundation peripheral controller (FPC) be executed.  
EXC:UT-FPC-A  
5E12 - 5E14

Requests that an unconditional call to a function using parameters in the specified foundation peripheral controller (FPC) be executed.  
EXC:UT-FPC-B  
5E15 and later

Inhibits the hardware error checks on the specified foundation peripheral controller (FPC).  
INH:HDW-FPC  
5E12 and later

Requests that a value be loaded into the memory of the specified foundation peripheral controller (FPC).  
LOAD:UT-FPC-A  
5E12 - 5E14

Requests a value be loaded into the memory of the specified foundation peripheral controller (FPC).  
LOAD:UT-FPC-B  
5E15 and later

Requests that the specified foundation peripheral controller (FPC) be removed from service.  
RMV:FPC  
5E12 and later

Requests that the specified foundation peripheral controller (FPC) be restored to service.  
RST:FPC  
5E12 and later

Requests that actions on the specified foundation peripheral controller (FPC) be stopped.  
STP:FPC  
5E12 and later

Requests a switch of the foundation peripheral controller (FPC) unit.  
SW:FPC  
5E12 and later

93. GATED DIODE CROSSPOINT

93.1 Gated Diode Crosspoint Access

<table>
<thead>
<tr>
<th>Topic/Purpose</th>
<th>Message ID/ Software Release Range</th>
</tr>
</thead>
</table>
| Requests that actions on the gated diode crosspoint access (GDXACC) be aborted at the specified location. | ABT:GDXACC  
5E12 and later |
| Allows hardware error checks to be performed on the specified gated diode crosspoint access (GDXACC) circuit. | ALW:HDW-GDXACC  
5E12 and later |
| Requests that a gated diode crosspoint access (GDXACC) circuit be removed and diagnosed. | DGN:GDXACC  
5E12 and later |
| Requests interactive diagnostic (exercises) of the gated diode crosspoint access (GDXACC). | EX:GDXACC  
5E12 and later |
| Inhibits the hardware error checks performed on the specified gated diode crosspoint access (GDXACC) circuit. | INH:HDW-GDXACC  
5E12 and later |
| Requests that a GDX access (GDXACC) be removed from service. | RMV:GDXACC  
5E12 and later |
| Requests that a gated diode crosspoint access (GDXACC) service group in a line unit be restored to service. | RST:GDXACC  
5E12 and later |
| Requests that actions be stopped on the gated diode crosspoint access (GDXACC) at the specified location. | STP:GDXACC  
5E12 and later |

93.2 Gated Diode Crosspoint Compensator

<table>
<thead>
<tr>
<th>Topic/Purpose</th>
<th>Message ID/ Software Release Range</th>
</tr>
</thead>
</table>
| Requests that actions on the gated diode crosspoint compensator (GDXC) at the specified location be aborted. | ABT:GDXC  
5E12 and later |
| Requests a gated diode crosspoint compensator (GDXC) circuit be removed and diagnosed. | DGN:GDXC  
5E12 and later |
| Requests interactive diagnostics (exercises) of the gated diode crosspoint compensator (GDXC). | EX:GDXC  
5E12 and later |
| Inhibits the hardware error checks performed on the specified gated diode crosspoint compensator (GDXC) circuit. | INH:HDW-GDXC  
5E12 and later |
| Requests that a gated diode crosspoint compensator (GDXC) be removed from service. | RMV:GDXC  
5E12 and later |
<table>
<thead>
<tr>
<th>Topic/Purpose</th>
<th>Message ID/ Software Release Range</th>
</tr>
</thead>
<tbody>
<tr>
<td>Requests that a gated diode crosspoint compensator (GDXC) board in a metallic service unit (MSU) be restored to service.</td>
<td>RST:GDXC 5E12 and later</td>
</tr>
<tr>
<td>Requests that actions be stopped on the gated diode crosspoint compensator (GDXC) at the specified location.</td>
<td>STP:GDXC 5E12 and later</td>
</tr>
</tbody>
</table>

### 93.3 Gated Diode Crosspoint Control

<table>
<thead>
<tr>
<th>Topic/Purpose</th>
<th>Message ID/ Software Release Range</th>
</tr>
</thead>
<tbody>
<tr>
<td>Requests that actions on the gated diode crosspoint control (GDXCON) be aborted at the specified location.</td>
<td>ABT:GDXCON 5E12 and later</td>
</tr>
<tr>
<td>Allows hardware error checks to be performed on the specified gated diode crosspoint control (GDXCON).</td>
<td>ALW:HDW-GDXCON 5E12 and later</td>
</tr>
<tr>
<td>Requests that a gated diode crosspoint control (GDXCON) circuit be removed and diagnosed.</td>
<td>DGN:GDXCON 5E12 and later</td>
</tr>
<tr>
<td>Requests interactive diagnostic (exercises) of the gated diode crosspoint control (GDXCON).</td>
<td>EX:GDXCON 5E12 and later</td>
</tr>
<tr>
<td>Inhibits the hardware error checks performed on the specified gated diode crosspoint control (GDXCON) circuit.</td>
<td>INH:HDW-GDXCON 5E12 and later</td>
</tr>
<tr>
<td>Requests that a gated diode crosspoint control (GDXCON) be removed from service.</td>
<td>RMV:GDXCON 5E12 and later</td>
</tr>
<tr>
<td>Requests that a gated diode crosspoint control (GDXCON) board in a line unit be restored to service as the active controller or to standby.</td>
<td>RST:GDXCON 5E12 and later</td>
</tr>
<tr>
<td>Requests that actions be stopped on the gated diode crosspoint control (GDXCON) at the specified location.</td>
<td>STP:GDXCON 5E12 and later</td>
</tr>
<tr>
<td>Requests that a gated diode crosspoint controller (GDXCON) be switched from the standby to the active state.</td>
<td>SW:GDXCON 5E12 and later</td>
</tr>
</tbody>
</table>

### 93.4 Gated Diode Crosspoint Grid

<table>
<thead>
<tr>
<th>Topic/Purpose</th>
<th>Message ID/ Software Release Range</th>
</tr>
</thead>
<tbody>
<tr>
<td>Requests that actions on the gated diode crosspoint (GDX) grid be aborted at the specified location.</td>
<td>ABT:GRID 5E12 and later</td>
</tr>
<tr>
<td>Allows hardware error checks to be performed on the specified gated diode crosspoint grid (GRID).</td>
<td>ALW:HDW-GRID 5E12 and later</td>
</tr>
<tr>
<td>Requests that a gated diode crosspoint grid (GRID) in a line unit concentrator be removed from service and diagnosed.</td>
<td>DGN:GRID 5E12 and later</td>
</tr>
<tr>
<td>Requests interactive diagnostic (exercises) of the gated diode crosspoint grid (GRID).</td>
<td>EX:GRID 5E12 and later</td>
</tr>
<tr>
<td>Inhibits the hardware error checks performed on the specified gated diode crosspoint grid (GRID).</td>
<td>INH:HDW-GRID 5E12 and later</td>
</tr>
<tr>
<td>Inhibits the hardware error checks performed on the specified line unit model 2 (LU2) or line unit model 3 (LU3) grid board.</td>
<td>INH:HDW-GRIDBD 5E12 and later</td>
</tr>
<tr>
<td>Requests that a gated diode crosspoint grid (GRID) be removed from service.</td>
<td>RMV:GRID 5E12 and later</td>
</tr>
<tr>
<td>Requests that a gated diode crosspoint grid (GRID) in a line unit concentrator be restored to service.</td>
<td>RST:GRID 5E12 and later</td>
</tr>
<tr>
<td>Requests that actions stop on the gated diode crosspoint (GDX) grid at the specified location.</td>
<td>STP:GRID 5E12 and later</td>
</tr>
<tr>
<td>Requests the fabric exerciser to be run on a line unit grid.</td>
<td>TST:GRID 5E12 and later</td>
</tr>
</tbody>
</table>

### 94. GENERIC ACCESS PROGRAM

<table>
<thead>
<tr>
<th>Topic/Purpose</th>
<th>Message ID/ Software Release Range</th>
</tr>
</thead>
<tbody>
<tr>
<td>Causes the administrative module (AM) generic access package (GRASP) transfer trace to start monitoring the flow of execution, as previously set up with an INIT:UMEM message.</td>
<td>ALW:UMEM 5E12 and later</td>
</tr>
<tr>
<td>Causes the definition of an administrative module (AM) generic access package (GRASP)</td>
<td>CLR:UMEM</td>
</tr>
</tbody>
</table>

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### 95. GLOBAL DIGITAL SERVICES FUNCTION

<table>
<thead>
<tr>
<th>Topic/Purpose</th>
<th>Message ID/Software Release Range</th>
</tr>
</thead>
<tbody>
<tr>
<td>Aborts actions on the global digital services function (GDSF).</td>
<td>ABT:GDSF 5E12 and later</td>
</tr>
<tr>
<td>Allows maintenance hardware checks in a global digital services function (GDSF) circuit to occur.</td>
<td>ALW:HDW-GDSF 5E12 and later</td>
</tr>
<tr>
<td>Diagnoses a global digital services function (GDSF) circuit to determine whether it is in satisfactory working order.</td>
<td>DGN:GDSF 5E12 and later</td>
</tr>
<tr>
<td>Interactively diagnoses the global digital services function (GDSF) circuit.</td>
<td>EX:GDSF 5E12 and later</td>
</tr>
<tr>
<td>Checks hardware in a global digital services function (GDSF) circuit.</td>
<td>INH:HDW-GDSF 5E12 and later</td>
</tr>
<tr>
<td>Requests that a global digital services function (GDSF) circuit be removed from service.</td>
<td>RMV:GDSF 5E12 and later</td>
</tr>
<tr>
<td>Conditionally or unconditionally restores a global digital services function (GDSF) circuit to service.</td>
<td>RST:GDSF 5E12 and later</td>
</tr>
<tr>
<td>Requests that actions on the global digital services function (GDSF) circuit be stopped.</td>
<td>STP:GDSF 5E12 and later</td>
</tr>
</tbody>
</table>

### 96. GLOBAL DIGITAL SERVICE UNIT COMMON BOARD

<table>
<thead>
<tr>
<th>Topic/Purpose</th>
<th>Message ID/Software Release Range</th>
</tr>
</thead>
<tbody>
<tr>
<td>Requests that actions on the global digital service unit common (GDSUCOM) board be aborted at the specified location.</td>
<td>ABT:GDSUCOM 5E12 and later</td>
</tr>
<tr>
<td>Allows hardware error checks to be performed on the specified global digital service unit (DSU) common (GDSUCOM) board.</td>
<td>ALW:HDW-GDSUCOM 5E12 and later</td>
</tr>
<tr>
<td>Requests that a global digital service unit common (GDSUCOM) board be diagnosed to determine whether it is in satisfactory working order.</td>
<td>DGN:GDSUCOM 5E12 and later</td>
</tr>
<tr>
<td>Requests interactive diagnostics (exercises) of the global digital service circuit unit common.</td>
<td>EX:GDSUCOM 5E12 and later</td>
</tr>
</tbody>
</table>
97. GLOBAL SWITCHING MODULE

<table>
<thead>
<tr>
<th>Topic/Purpose</th>
<th>Message ID/ Software Release Range</th>
</tr>
</thead>
<tbody>
<tr>
<td>Requests an initialization of named table(s) in the selected common channel signaling (CCS) global switching module (GSM).</td>
<td>INIT:SCCP 5E12 and later</td>
</tr>
<tr>
<td>Requests the linkset or combined linkset servicing each accessible destination point code (DPC) for the common channel signaling (CCS) global switching module (GSM).</td>
<td>OP:CCS-ACDPC 5E12 and later</td>
</tr>
<tr>
<td>Requests the number of currently active (in service) member(s) in each signaling linkset on a common channel signaling (CCS) global switching module (GSM).</td>
<td>OP:CCS-AGTLK 5E12 and later</td>
</tr>
<tr>
<td>Requests status information of all members of one or more combined link sets (CLSs) on a given common channel signaling (CCS) global switching module (GSM).</td>
<td>OP:CCS-CLS 5E12 and later</td>
</tr>
<tr>
<td>Requests status information for one or more destination point codes (DPC) associated with a given common channel signaling (CCS) global switching module (GSM).</td>
<td>OP:CCS-DPC 5E12 and later</td>
</tr>
<tr>
<td>Requests a report of the destination point codes (DPCs) currently served by a specified SS7 linkset or combined linkset on a common channel signaling (CCS) global switching module (GSM).</td>
<td>OP:CCS-DPCLS 5E12 and later</td>
</tr>
<tr>
<td>Outputs for each global switching modules (GSM) the common channel signaling (CCS) protocol type and status of the signaling links.</td>
<td>OP:CCS-GSM-A 5E12 - 5E13</td>
</tr>
<tr>
<td>Requests common channel signaling link (CCSLK) and internal CCS message transport (CMT) summary status on one/more global switching modules (GSMs).</td>
<td>OP:CCS-GSM-B 5E14 and later</td>
</tr>
<tr>
<td>Generates the report of the combined link set of which a given link set is a member.</td>
<td>OP:CCS-LSCLS 5E12 and later</td>
</tr>
<tr>
<td>Requests the monitoring action to be turned on, turned off, or the status of links and/or members and/or flow control management (FCM) and/or traffic flow management (TFM) for specified monitoring masks (or a combination thereof).</td>
<td>OP:CCS-MON 5E16(1) and later</td>
</tr>
<tr>
<td>Requests status information for one or more signaling connection control part (SCCP) subsystem(s) at one or more destination point codes (DPCs).</td>
<td>OP:CCS-SCMG 5E12 and later</td>
</tr>
<tr>
<td>Requests a display of the normal and current signaling link selection (SLS) distributions for all links currently carrying traffic to the specified destination point code (DPC) or a display of the normal and current SLS distribution of a link for a specific linkset (LS) or combined linkset (CLS) specified.</td>
<td>OP:CCS-SLS 5E12 and later</td>
</tr>
<tr>
<td>Requests the status of one or more common channel signaling (CCS) links.</td>
<td>OP:ST-CCSLK 5E12 and later</td>
</tr>
<tr>
<td>Requests status of the CCS message transport (CMT) connectivity between a specified global switching module (GSM) and one/all child non-global switching modules (NGSMs). CMT is the ability to transport CCS messages internally within the 5ESS switch.</td>
<td>OP:ST-GSMNET-A 5E14 and later</td>
</tr>
<tr>
<td>Requests status of the CCS message transport (CMT) connectivity between a specified global switching module (GSM) and one/all child non-global switching modules (NGSMs).</td>
<td>OP:ST-GSMNET-B 5E14 and later</td>
</tr>
<tr>
<td>Requests status of the common channel signaling (CCS) message delivery (MD) network.</td>
<td>OP:ST-MD 5E12 and later</td>
</tr>
<tr>
<td>Requests status of the CCS message transport (CMT) connectivity between a specified non-global switching module (NGSM) and one/more of its associated global switching modules (GSM).</td>
<td>OP:ST-NGSMNET-A 5E14 and later</td>
</tr>
<tr>
<td>Requests status of the CCS message transport (CMT) connectivity between a specified non-global switching module (NGSM) and one/more of its associated global switching modules (GSM).</td>
<td>OP:ST-NGSMNET-B 5E14 and later</td>
</tr>
<tr>
<td>Removes a common channel signaling (CCS) link(s) from service by deactivating, inhibiting, or blocking the link(s).</td>
<td>RMV:CCSLK 5E12 and later</td>
</tr>
</tbody>
</table>
Removes a common channel signaling (CCS) intra-global switching module (GSM) message delivery (MD) path internal to the GSM.

<table>
<thead>
<tr>
<th>Topic/Purpose</th>
<th>Message ID/ Software Release Range</th>
</tr>
</thead>
<tbody>
<tr>
<td>RMV:MD</td>
<td>5E12 and later</td>
</tr>
</tbody>
</table>

Restores service to a common channel signaling (CCS) link(s) by removing the deactivating, inhibiting, or blocking status on that link(s).

<table>
<thead>
<tr>
<th>Topic/Purpose</th>
<th>Message ID/ Software Release Range</th>
</tr>
</thead>
<tbody>
<tr>
<td>RST:CCSLK</td>
<td>5E12 and later</td>
</tr>
</tbody>
</table>

Restores the intra-global switching module (GSM) common channel signal (CCS) message delivery (MD) path.

<table>
<thead>
<tr>
<th>Topic/Purpose</th>
<th>Message ID/ Software Release Range</th>
</tr>
</thead>
<tbody>
<tr>
<td>RST:MD</td>
<td>5E12 and later</td>
</tr>
</tbody>
</table>

Schedules a link test to be run on a signaling link.

<table>
<thead>
<tr>
<th>Topic/Purpose</th>
<th>Message ID/ Software Release Range</th>
</tr>
</thead>
<tbody>
<tr>
<td>TST:CCSLK</td>
<td>5E12 and later</td>
</tr>
</tbody>
</table>

Requests status of the CCS message transport (CMT) connectivity between a specified global switching module (GSM) and one/all child non-global switching modules (NGSMs). CMT is the ability to transport CCS messages internally within the switch.

<table>
<thead>
<tr>
<th>Topic/Purpose</th>
<th>Message ID/ Software Release Range</th>
</tr>
</thead>
<tbody>
<tr>
<td>TST:GSMNET</td>
<td>5E15 and later</td>
</tr>
</tbody>
</table>

98. HARD-TO-REACH

<table>
<thead>
<tr>
<th>Topic/Purpose</th>
<th>Message ID/ Software Release Range</th>
</tr>
</thead>
<tbody>
<tr>
<td>Requests clearance of manual hard-to-reach (MHTR) destinations.</td>
<td>CLR:MHTR 5E16(2) and later</td>
</tr>
<tr>
<td>Requests that all destinations assigned to the hard-to-reach (HTR) list be listed.</td>
<td>OP:HTR 5E16(2) and later</td>
</tr>
</tbody>
</table>

99. HARDWARE CHECKS

<table>
<thead>
<tr>
<th>Topic/Purpose</th>
<th>Message ID/ Software Release Range</th>
</tr>
</thead>
<tbody>
<tr>
<td>Requests that hardware error checks be allowed to be performed on the specified control data interface (CDI).</td>
<td>ALW:HDW-CDI 5E12 and later</td>
</tr>
<tr>
<td>Allows level 2 and level 3 hardware checks errors to be performed on one or all communication links (CLNKs).</td>
<td>ALW:HDW-CLNK 5E12 and later</td>
</tr>
<tr>
<td>Allows hardware error checks to be performed on all communication module (CM) units.</td>
<td>ALW:HDW-CM 5E12 and later</td>
</tr>
<tr>
<td>Allows hardware error checks to be performed on the specified SLC® 96 digital carrier line unit (DCLU).</td>
<td>ALW:HDW-DCLU 5E12 and later</td>
</tr>
<tr>
<td>Allows hardware error checks to be performed on the specified directly connected test unit common board (DCTUCOM).</td>
<td>ALW:HDW-DCTUCOM 5E12 and later</td>
</tr>
<tr>
<td>Allows hardware error checks to be performed on the specified digital facility interface (DFI).</td>
<td>ALW:HDW-DFI 5E12 and later</td>
</tr>
<tr>
<td>Allows hardware error checks to occur on a remote integrated services line unit (RISLU) host/remote digital facility interface (DFIH) circuit pair.</td>
<td>ALW:HDW-DFIH 5E12 and later</td>
</tr>
<tr>
<td>Requests that hardware checks be allowed on a digital networking unit - synchronous optical network (DNU-S) common controller (DNUSCC).</td>
<td>ALW:HDW-DNUSSCC 5E12 and later</td>
</tr>
<tr>
<td>Requests that hardware checks be allowed on a digital networking unit - synchronous optical network (DNU-S) common data (DNUSCD).</td>
<td>ALW:HDW-DNUSSCD 5E12 and later</td>
</tr>
<tr>
<td>Requests that hardware error checks be allowed to be performed on the specified foundation peripheral controller (FPC).</td>
<td>ALW:HDW-FPC 5E12 and later</td>
</tr>
<tr>
<td>Allows maintenance hardware checks in a global digital services function (GDSF) circuit to occur.</td>
<td>ALW:HDW-GDSF 5E12 and later</td>
</tr>
<tr>
<td>Allows hardware error checks to be performed on the specified global digital service unit (DSU) common (GDSU.COM) board.</td>
<td>ALW:HDW-GDSU.COM 5E12 and later</td>
</tr>
<tr>
<td>Allows hardware error checks to be performed on the specified gated diode crosspoint access (GDXACC) circuit.</td>
<td>ALW:HDW-GDXACC 5E12 and later</td>
</tr>
<tr>
<td>Allows hardware error checks to be performed on the specified gated diode crosspoint control (GDXCON).</td>
<td>ALW:HDW-GDXCON 5E12 and later</td>
</tr>
<tr>
<td>Allows hardware error checks to be performed on the specified gated diode crosspoint grid (GGRID).</td>
<td>ALW:HDW-GGRID 5E12 and later</td>
</tr>
<tr>
<td>Allows hardware error checks to be performed on the specified line unit model 2 (LU2) or line unit model 3 (LU3) grid board.</td>
<td>ALW:HDW-GGRIDBD 5E12 and later</td>
</tr>
<tr>
<td>Allows hardware error checks to be performed on the specified host switching module (HSM) digital facilities interface (HDFI) circuit.</td>
<td>ALW:HDW-HDFI 5E12 and later</td>
</tr>
<tr>
<td>Requests that hardware error checks be allowed to be performed on the specified integrated</td>
<td>ALW:HDW-IDCU 5E12 and later</td>
</tr>
<tr>
<td>Function</td>
<td>ALW/HDW Code</td>
</tr>
<tr>
<td>----------</td>
<td>--------------</td>
</tr>
<tr>
<td>Digital carrier unit (IDCU) service group circuit.</td>
<td>Requests that hardware error checks be allowed to be performed on the specified integrated digital carrier unit (IDCU) facility (IFAC) circuit.</td>
</tr>
<tr>
<td>Allows hardware checks on an integrated services line unit (ISLU) common controller (CC) or common data (CD).</td>
<td>ALW/HDW-ISLU</td>
</tr>
<tr>
<td>Allows listing of ring trip interrupts in an integrated services line unit (ISLU) high level service circuit (HLSC).</td>
<td>ALW/HDW-ISLUHLSC</td>
</tr>
<tr>
<td>Allows listing of interrupts in an integrated services line unit (ISLU) metallic access network (MAN).</td>
<td>ALW/HDW-ISLUMAN</td>
</tr>
<tr>
<td>Allows listing of error sources in an integrated services line unit (ISLU) ringing generator (RG).</td>
<td>ALW/HDW-ISLURG</td>
</tr>
<tr>
<td>Allows maintenance hardware checks in a local digital service function (LDSF) circuit to occur.</td>
<td>ALW/HDW-LDSF</td>
</tr>
<tr>
<td>Allows hardware checks in a local digital service function (LDSF) circuit to occur.</td>
<td>ALW/HDW-LDSU</td>
</tr>
<tr>
<td>Allows hardware error checks to be performed on the specified local digital service unit - model 2 (LDSU2) board.</td>
<td>ALW/HDW-LDSUCOM</td>
</tr>
<tr>
<td>Allows hardware error checks to be performed on the specified line unit channel (LUCHAN).</td>
<td>ALW/HDW-LUHSC</td>
</tr>
<tr>
<td>Allows hardware error checks to be performed on the specified line unit high level service circuit (LUHLSC).</td>
<td>Requests that a hardware check (HDWCHK) be allowed in a module controller/time-slot interchange unit (MCTSI).</td>
</tr>
<tr>
<td>Requests that a hardware check (HDWCHK) be allowed in a module controller/time-slot interchange unit (MCTSI).</td>
<td>ALW/HDW-MCTSI-A</td>
</tr>
<tr>
<td>Requests that a hardware check (HDWCHK) be allowed in a module controller/time-slot interchange unit (MCTSI).</td>
<td>ALW/HDW-MCTSI-B</td>
</tr>
<tr>
<td>Requests that hardware error checks be allowed to be performed on the specified module message processor (MMP).</td>
<td>ALW/HDW-MMP</td>
</tr>
<tr>
<td>Allows hardware checks (errors) on a message switch control unit (MSCU).</td>
<td>ALW/HDW-MSCU</td>
</tr>
<tr>
<td>Allows hardware error checks to be performed on the specified metallic service unit common (MSUCOM) board.</td>
<td>ALW/HDW-MSUCOM</td>
</tr>
<tr>
<td>Requests that hardware error checks be allowed to be performed on specified network clock reference (NCREF).</td>
<td>ALW/HDW-NCREF-A</td>
</tr>
<tr>
<td>Requests that hardware error checks be allowed to be performed on specified network clock reference (NCREF).</td>
<td>ALW/HDW-NCREF-B</td>
</tr>
<tr>
<td>Requests that hardware checks be allowed on an optical facility interface (OFI).</td>
<td>ALW/HDW-OFI</td>
</tr>
<tr>
<td>Allows hardware checks to be performed on the specified office network and control complex (ONTC).</td>
<td>ALW/HDW-ONTC</td>
</tr>
<tr>
<td>Requests that hardware checks be allowed on a peripheral control and timing (PCT) line and trunk unit link.</td>
<td>ALW/HDW-PLTLK</td>
</tr>
<tr>
<td>Requests that hardware checks be allowed on a peripheral control and timing (PCT) line and trunk unit link.</td>
<td>ALW/HDW-PPC</td>
</tr>
<tr>
<td>Requests that hardware error checks be allowed to be performed on the specified quad-link packet switch gateway processor (QGP).</td>
<td>ALW/HDW-QGP</td>
</tr>
<tr>
<td>Allows hardware checks in a recorded announcement function (RAF) unit to occur.</td>
<td>ALW/HDW-RAF</td>
</tr>
<tr>
<td>Requests that hardware error checks be allowed to be performed on the specified remote communication link (RCL) circuit between inter-remote switching module (RSM) communication link digital facilities interface (DIFI) circuits.</td>
<td>ALW/HDW-RCL</td>
</tr>
<tr>
<td>Allows hardware error checks to be performed on the specified remote clock (RCLK) circuit at the peripheral interface control bus (PICB) level.</td>
<td>ALW/HDW-RCLK</td>
</tr>
<tr>
<td>Allows hardware error checks to be performed on the specified remote clock oscillator (RCOSC) circuit.</td>
<td>ALW/HDW-RCOSC</td>
</tr>
<tr>
<td>Allows hardware error checks to be performed on the specified remote clock oscillator cross couple (RCOX) link.</td>
<td>ALW/HDW-RCOXC</td>
</tr>
<tr>
<td>Allows hardware error checks to be performed on the specified remote clock reference</td>
<td>ALW/HDW-RCREF</td>
</tr>
<tr>
<td>Function Description</td>
<td>Syntax</td>
</tr>
<tr>
<td>-------------------------------------------------------------------------------------</td>
<td>----------</td>
</tr>
<tr>
<td>Allows hardware error checks to be performed on the specified remote clock cross</td>
<td>ALW:HDW-RCXC</td>
</tr>
<tr>
<td>couple (RCC) circuit.</td>
<td></td>
</tr>
<tr>
<td>5E12 and later</td>
<td></td>
</tr>
<tr>
<td>Allows hardware error checks to be performed on the specified remote switching</td>
<td>ALW:HDW-RDFI</td>
</tr>
<tr>
<td>module (RSM) digital facilities interface (RDFI) circuit.</td>
<td></td>
</tr>
<tr>
<td>5E12 and later</td>
<td></td>
</tr>
<tr>
<td>Allows hardware error checks to be performed on the specified remote switching</td>
<td>ALW:HDW-RLI</td>
</tr>
<tr>
<td>module (RSM) remote link interface (RLI) circuit.</td>
<td></td>
</tr>
<tr>
<td>5E12 and later</td>
<td></td>
</tr>
<tr>
<td>Allows hardware checks to occur on a remote integrated services line unit (RISLU)</td>
<td>ALW:HDW-RRCLK</td>
</tr>
<tr>
<td>remote clock pack (RRC),</td>
<td></td>
</tr>
<tr>
<td>5E12 and later</td>
<td></td>
</tr>
<tr>
<td>Allows hardware error checks to be performed on the specified revertive pulsing</td>
<td>ALW:HDW-RVPT</td>
</tr>
<tr>
<td>transceiver (RVPT).</td>
<td></td>
</tr>
<tr>
<td>5E12 and later</td>
<td></td>
</tr>
<tr>
<td>Allows hardware checks in a service announcement system (SAS) unit to occur.</td>
<td>ALW:HDW-SAS</td>
</tr>
<tr>
<td>5E12 and later</td>
<td></td>
</tr>
<tr>
<td>Allows hardware error checks to be performed on the specified SLC® 96 digital</td>
<td>ALW:HDW-SDFI</td>
</tr>
<tr>
<td>facility interface (SDFI).</td>
<td></td>
</tr>
<tr>
<td>5E12 and later</td>
<td></td>
</tr>
<tr>
<td>Requests that hardware checks be allowed on a digital networking unit - synchronous</td>
<td>ALW:HDW-SFI</td>
</tr>
<tr>
<td>optical network (DNU-S) synchronous transport signal electrical interface (STSX-1)</td>
<td></td>
</tr>
<tr>
<td>facility interface (SFI).</td>
<td></td>
</tr>
<tr>
<td>5E12 and later</td>
<td></td>
</tr>
<tr>
<td>Allows all hardware error checks in one or more switching modules (SMs).</td>
<td>ALW:HDW-SM-A</td>
</tr>
<tr>
<td>5E12 - 5E13</td>
<td></td>
</tr>
<tr>
<td>Allows all hardware error checks in one or more switching modules (SMs).</td>
<td>ALW:HDW-SM-B</td>
</tr>
<tr>
<td>5E14 and later</td>
<td></td>
</tr>
<tr>
<td>Allows hardware error checks to be performed on the specified test and access circuit</td>
<td>ALW:HDW-TAC</td>
</tr>
<tr>
<td>(TAC).</td>
<td></td>
</tr>
<tr>
<td>5E12 and later</td>
<td></td>
</tr>
<tr>
<td>Allows hardware error checks to be performed on the specified trunk equipment number</td>
<td>ALW:HDW-TEN</td>
</tr>
<tr>
<td>(TEN).</td>
<td></td>
</tr>
<tr>
<td>5E12 and later</td>
<td></td>
</tr>
<tr>
<td>Requests that hardware checks be allowed on a digital networking unit - synchronous</td>
<td>ALW:HDW-TMUX</td>
</tr>
<tr>
<td>optical network (DNU-S) transmission multiplexer (TMUX).</td>
<td></td>
</tr>
<tr>
<td>5E12 and later</td>
<td></td>
</tr>
<tr>
<td>Allows hardware error checks to be performed on the specified transmission test facility</td>
<td>ALW:HDW-TTFCOM</td>
</tr>
<tr>
<td>common (TTFCOM) circuit pack.</td>
<td></td>
</tr>
<tr>
<td>5E12 and later</td>
<td></td>
</tr>
<tr>
<td>Allows hardware error checks to be performed on the specified universal conference</td>
<td>ALW:HDW-UCONF</td>
</tr>
<tr>
<td>(UCONF) circuit board.</td>
<td></td>
</tr>
<tr>
<td>5E12 and later</td>
<td></td>
</tr>
<tr>
<td>Allows hardware error checks to be performed on the specified universal tone decoder</td>
<td>ALW:HDW-UTD</td>
</tr>
<tr>
<td>(UTD).</td>
<td></td>
</tr>
<tr>
<td>5E12 and later</td>
<td></td>
</tr>
<tr>
<td>Allows hardware error checks to be performed on the specified universal tone generator</td>
<td>ALW:HDW-UTG</td>
</tr>
<tr>
<td>(UTG).</td>
<td></td>
</tr>
<tr>
<td>5E12 and later</td>
<td></td>
</tr>
<tr>
<td>Requests that the system status register be set such that a control unit (CU) switch</td>
<td>ALW:HDWCHK</td>
</tr>
<tr>
<td>can be implemented as a normal fault recovery procedure, thereby allowing a switch</td>
<td></td>
</tr>
<tr>
<td>to the standby administrative module (AM) control unit when a fault occurs in the</td>
<td>5E12 and later</td>
</tr>
<tr>
<td>active AM control unit.</td>
<td></td>
</tr>
<tr>
<td>Requests that the printing of a line removal message on the ROP be allowed when a</td>
<td>ALW:HWGRD</td>
</tr>
<tr>
<td>line unit, dial tone first (DTF), or integrated services line unit (ISLU) Z-card (</td>
<td>5E12 and later</td>
</tr>
<tr>
<td>analog line) is placed out-of-service (OOS) maintenance (MTCE) high-and-wet (HW)</td>
<td></td>
</tr>
<tr>
<td>ground (GRD).</td>
<td></td>
</tr>
<tr>
<td>Inhibits maintenance interrupts on an inter-remote switching module (RSM)</td>
<td>INH:HDW-CDFI</td>
</tr>
<tr>
<td>communication link digital facilities interface (CDFI) circuit.</td>
<td>5E12 and later</td>
</tr>
<tr>
<td>Inhibits the hardware error checks performed on the specified control data interface</td>
<td>INH:HDW-CDFI</td>
</tr>
<tr>
<td>(CDI).</td>
<td>5E12 and later</td>
</tr>
<tr>
<td>Inhibits all hardware error checks performed on all communication module (CM) units.</td>
<td>INH:HDW-CM</td>
</tr>
<tr>
<td>5E12 and later</td>
<td></td>
</tr>
<tr>
<td>Inhibits the hardware error checks performed on the specified SLC® 96 digital carrier</td>
<td>INH:HDW-DCLU</td>
</tr>
<tr>
<td>line unit (DCLU).</td>
<td>5E12 and later</td>
</tr>
<tr>
<td>Inhibits the hardware error checks performed on the specified directly connected test</td>
<td>INH:HDW-DCTUCOM</td>
</tr>
<tr>
<td>unit common board (DCTUCOM).</td>
<td>5E12 and later</td>
</tr>
<tr>
<td>Inhibits the hardware error checks performed on the specified digital facility</td>
<td>INH:HDW-DIFI</td>
</tr>
<tr>
<td>interface (DFI).</td>
<td>5E12 and later</td>
</tr>
<tr>
<td>Inhibits hardware checks in a remote integrated services line unit (RISLU) host/remote</td>
<td>INH:HDW-DFIH</td>
</tr>
<tr>
<td>digital facility interface (DFIH) pair.</td>
<td>5E12 and later</td>
</tr>
<tr>
<td>Inhibits the hardware error checks performed on the specified distributing frame test</td>
<td>INH:HDW-DFTAC</td>
</tr>
<tr>
<td>access circuit (DFTAC).</td>
<td>5E12 and later</td>
</tr>
<tr>
<td>Requests that hardware checks be inhibited on a digital networking unit - synchronous</td>
<td>INH:HDW-DNUSCC</td>
</tr>
<tr>
<td>optical network (DNU-S) common controller (DNUSCC).</td>
<td>5E12 and later</td>
</tr>
<tr>
<td>Requests that hardware checks be inhibited on a digital networking unit - synchronous</td>
<td>INH:HDW-DNUSCD</td>
</tr>
</tbody>
</table>
| optical.
<table>
<thead>
<tr>
<th>Function Description</th>
<th>Module</th>
<th>Version</th>
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</thead>
<tbody>
<tr>
<td>Inhibits the hardware error checks on the specified foundation peripheral controller (FPC).</td>
<td>INH-HDW-FPC</td>
<td>5E12 and later</td>
</tr>
<tr>
<td>Checks hardware in a global digital services function (GDSF) circuit.</td>
<td>INH-HDW-GDSF</td>
<td>5E12 and later</td>
</tr>
<tr>
<td>Inhibits the hardware error checks performed on the specified global digital service unit common (GDSUCOM) board.</td>
<td>INH-HDW-GDSUCOM</td>
<td>5E12 and later</td>
</tr>
<tr>
<td>Inhibits the hardware error checks performed on the specified gated diode crosspoint access (GDXACC) circuit.</td>
<td>INH-HDW-GDXACC</td>
<td>5E12 and later</td>
</tr>
<tr>
<td>Inhibits the hardware error checks performed on the specified gated diode crosspoint compensator (GDXC) circuit.</td>
<td>INH-HDW-GDXC</td>
<td>5E12 and later</td>
</tr>
<tr>
<td>Inhibits the hardware error checks performed on the specified gated diode crosspoint control (GDXCON) circuit.</td>
<td>INH-HDW-GDXCON</td>
<td>5E12 and later</td>
</tr>
<tr>
<td>Inhibits the hardware error checks performed on the specified gated diode crosspoint grid (GRID).</td>
<td>INH-HDW-GRID</td>
<td>5E12 and later</td>
</tr>
<tr>
<td>Inhibits the hardware error checks performed on the specified line unit model 2 (LU2) or line unit model 3 (LU3) grid board.</td>
<td>INH-HDW-GRIDBD</td>
<td>5E12 and later</td>
</tr>
<tr>
<td>Inhibits the hardware error checks performed on the specified host switching module (HSM) digital facilities interface (HDFI) circuit.</td>
<td>INH-HDW-HDFI</td>
<td>5E12 and later</td>
</tr>
<tr>
<td>Requests that interrupts in an integrated digital carrier unit (IDCU) service group circuit be inhibited.</td>
<td>INH-HDW-IDCU</td>
<td>5E12 and later</td>
</tr>
<tr>
<td>Requests that interrupts in an integrated digital carrier unit (IDCU) facility (IFAC) circuit be inhibited.</td>
<td>INH-HDW-IFAC</td>
<td>5E12 and later</td>
</tr>
<tr>
<td>Inhibits ring trip interrupts in an integrated services line unit (ISLU) high level service circuit (HLSC).</td>
<td>INH-HDW-ISLUHLSC</td>
<td>5E12 and later</td>
</tr>
<tr>
<td>Inhibits interrupts in an integrated services line unit (ISLU) metallic access network (MAN).</td>
<td>INH-HDW-ISLUMAN</td>
<td>5E12 and later</td>
</tr>
<tr>
<td>Inhibits interrupts in an integrated services line unit (ISLU) ringing generator (RG).</td>
<td>INH-HDW-ISLURG</td>
<td>5E12 and later</td>
</tr>
<tr>
<td>Inhibits hardware checks in an integrated services test function (ISTF) unit.</td>
<td>INH-HDW-ISTF</td>
<td>5E12 and later</td>
</tr>
<tr>
<td>Checks hardware in a local digital service function (LDSF) circuit.</td>
<td>INH-HDW-LDSF</td>
<td>5E12 and later</td>
</tr>
<tr>
<td>Checks hardware in a local digital service unit - model 2 (LDSU2) board.</td>
<td>INH-HDW-LDSU</td>
<td>5E12 and later</td>
</tr>
<tr>
<td>Inhibits the hardware error checks performed on the specified local digital service unit common (LDSUCOM) board.</td>
<td>INH-HDW-LDSUCOM</td>
<td>5E12 and later</td>
</tr>
<tr>
<td>Inhibits the hardware error checks performed on the specified line unit channel (LUCHAN).</td>
<td>INH-HDW-LUCHAN</td>
<td>5E12 and later</td>
</tr>
<tr>
<td>Inhibits the hardware error checks performed on the specified line unit common control (LUCOMC).</td>
<td>INH-HDW-LUCOMC</td>
<td>5E12 and later</td>
</tr>
<tr>
<td>Inhibits the hardware error checks performed on the specified line unit high service circuit (LUHLSC).</td>
<td>INH-HDW-LUHLSC</td>
<td>5E12 and later</td>
</tr>
<tr>
<td>Requests that a hardware check (HDWCHK) be inhibited in a module controller/time-slot interchange unit (MCTSI).</td>
<td>INH-HDW-MCTSI-A</td>
<td>5E12 - 5E14</td>
</tr>
<tr>
<td>Requests that a hardware check be inhibited in a module controller/time-slot interchange unit (MCTSI).</td>
<td>INH-HDW-MCTSI-B</td>
<td>5E15 and later</td>
</tr>
<tr>
<td>Requests that hardware error checks on the specified module message processor (MMP) be inhibited.</td>
<td>INH-HDW-MMP</td>
<td>5E12 and later</td>
</tr>
<tr>
<td>Inhibits hardware checks (errors) on a message switch control unit (MSCU).</td>
<td>INH-HDW-MSCU</td>
<td>5E9(1) and later</td>
</tr>
<tr>
<td>Inhibits the hardware error checks performed on the specified metallic service unit common (MSUCOM) board.</td>
<td>INH-HDW-MSUCOM</td>
<td>5E12 and later</td>
</tr>
<tr>
<td>Requests that hardware error checks be inhibited on the specified network clock reference (NCREF).</td>
<td>INH-HDW-NCREF-A</td>
<td>5E12 - 5E14</td>
</tr>
<tr>
<td>Requests that hardware error checks be inhibited on the specified network clock reference (NCREF).</td>
<td>INH-HDW-NCREF-B</td>
<td>5E15 and later</td>
</tr>
<tr>
<td>Inhibits the hardware error checks from being performed on the specified office network and timing complex (ONTC).</td>
<td>INH-HDW-ONTC</td>
<td>5E12 and later</td>
</tr>
<tr>
<td>Requests that hardware checks be inhibited on a peripheral control and timing (PCT) line and trunk unit link.</td>
<td>INH-HDW-PLTLK</td>
<td>5E15 and later</td>
</tr>
<tr>
<td>Description</td>
<td>Code</td>
<td>Version</td>
</tr>
<tr>
<td>-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------</td>
<td>---------------</td>
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</tr>
<tr>
<td>Inhibits the hardware error checks performed on the specified pump peripheral controller (PPC).</td>
<td>INH:HDW-PPC</td>
<td>5E12 and later</td>
</tr>
<tr>
<td>Requests that the hardware checks on the specified quad-link packet switch gateway processor (QGP) be inhibited.</td>
<td>INH:HDW-QGP</td>
<td>5E12 and later</td>
</tr>
<tr>
<td>Inhibits hardware checks in a recorded announcement function (RAF) unit.</td>
<td>INH:HDW-RAF</td>
<td>5E12 and later</td>
</tr>
<tr>
<td>Requests that the hardware error checks performed on the specified remote communication link (RCL) be inhibited.</td>
<td>INH:HDW-RCL</td>
<td>5E12 and later</td>
</tr>
<tr>
<td>Inhibits hardware error checks from being performed on the specified remote clock (RCLK) circuit at the peripheral interface control bus (PICB) level.</td>
<td>INH:HDW-RCCLK</td>
<td>5E12 and later</td>
</tr>
<tr>
<td>Inhibits hardware error checks from being performed on the specified remote clock oscillator (RCOSC) circuit.</td>
<td>INH:HDW-RCOSC</td>
<td>5E12 and later</td>
</tr>
<tr>
<td>Inhibits hardware error checks from being performed on the specified remote clock oscillator cross couple (RCOXC) circuit.</td>
<td>INH:HDW-RCOXC</td>
<td>5E12 and later</td>
</tr>
<tr>
<td>Inhibits hardware error checks from being performed on the specified remote clock reference (RCREF).</td>
<td>INH:HDW-RCREF</td>
<td>5E12 and later</td>
</tr>
<tr>
<td>Inhibits hardware error checks from being performed on the specified remote clock cross couple (RCXC) circuit.</td>
<td>INH:HDW-RCXC</td>
<td>5E12 and later</td>
</tr>
<tr>
<td>Inhibits the hardware error checks performed on the specified remote communication link (RCL) remote link interface (RLI) circuit.</td>
<td>INH:HDW-RLI</td>
<td>5E12 and later</td>
</tr>
<tr>
<td>Inhibits hardware checks in a remote integrated services line unit (RISLU) remote clock circuit pack (RRCLK).</td>
<td>INH:HDW-RRCLK</td>
<td>5E12 and later</td>
</tr>
<tr>
<td>Inhibits the hardware error checks performed on the specified revertive pulsing transceiver (RVPT).</td>
<td>INH:HDW-RVPT</td>
<td>5E12 and later</td>
</tr>
<tr>
<td>Inhibits hardware checks in a service announcement system (SAS) unit.</td>
<td>INH:HDW-SAS</td>
<td>5E12 and later</td>
</tr>
<tr>
<td>Inhibits the hardware error checks performed on the specified SLC®96 digital facility interface (SDFI).</td>
<td>INH:HDW-SDFI</td>
<td>5E12 and later</td>
</tr>
<tr>
<td>Requests that hardware checks be inhibited on a digital networking unit - synchronous optical network (DNU-S) synchronous transport signal electrical interface (STSX-1) facility interface (SFI).</td>
<td>INH:HDW-SFI</td>
<td>5E12 and later</td>
</tr>
<tr>
<td>Requests that all hardware error checks be inhibited in one or more switching modules (SMs).</td>
<td>INH:HDW-SM-A</td>
<td>5E12 - 5E13</td>
</tr>
<tr>
<td>Requests that all hardware error checks be inhibited in one or more switching modules (SMs).</td>
<td>INH:HDW-SM-B</td>
<td>5E14 and later</td>
</tr>
<tr>
<td>Inhibits the hardware error checks performed on the specified test and access circuit (TAC).</td>
<td>INH:HDW-TAC</td>
<td>5E12 and later</td>
</tr>
<tr>
<td>Inhibits the hardware error checks performed on the specified trunk equipment number (TEN) circuit.</td>
<td>INH:HDW-TEN</td>
<td>5E12 and later</td>
</tr>
<tr>
<td>Requests that hardware checks be inhibited on a digital networking unit - synchronous optical network (DNU-S) transmission multiplexer (TMUX).</td>
<td>INH:HDW-TMUX</td>
<td>5E12 and later</td>
</tr>
<tr>
<td>Inhibits the hardware error checks performed on the specified transmission test facility common (TTFCOM) circuit pack.</td>
<td>INH:HDW-TTFCOM</td>
<td>5E12 and later</td>
</tr>
<tr>
<td>Inhibits the hardware error checks performed on the specified universal conference (UCONF) circuit board.</td>
<td>INH:HDW-UCONF</td>
<td>5E12 and later</td>
</tr>
<tr>
<td>Inhibits the hardware error checks performed on the specified universal tone decoder (UTD).</td>
<td>INH:HDW-UTD</td>
<td>5E12 and later</td>
</tr>
<tr>
<td>Inhibits the hardware error checks performed on the specified universal tone generator (UTG).</td>
<td>INH:HDW-UTG</td>
<td>5E12 and later</td>
</tr>
<tr>
<td>Request that the system status register be set such that a control unit (CU) switch is not implemented as a normal fault recovery action.</td>
<td>INH:HDWCHK</td>
<td>5E12 and later</td>
</tr>
<tr>
<td>Requests that the printing of a line removal message on the ROP be inhibited when a line unit, dial tone first (DTF) coin, or integrated services line unit (ISLU) Z-card (analog line) is placed out-of-service (OOS) maintenance (MTCE) high-and-wet (HW) ground (GRD).</td>
<td>INH:HWGRD</td>
<td>5E12 and later</td>
</tr>
<tr>
<td>Requests a printout of the hardware check status of the specified unit or set of units.</td>
<td>OP:HDWCHK-A</td>
<td>5E12 - 5E14</td>
</tr>
<tr>
<td>Requests a printout of the hardware check status of the specified unit or set of units.</td>
<td>OP:HDWCHK-B</td>
<td>5E15 and later</td>
</tr>
</tbody>
</table>
## 100. HIGH-SPEED SYNCHRONOUS DATA LINK

<table>
<thead>
<tr>
<th>Topic/Purpose</th>
<th>Message ID/ Software Release Range</th>
</tr>
</thead>
<tbody>
<tr>
<td>Requests that the specified high-speed synchronous data link (HSD) subdevice be removed from service.</td>
<td>RMV:HSD 5E12 and later</td>
</tr>
<tr>
<td>Requests that the specified high-speed synchronous data link (HSD) subdevice be restored to service.</td>
<td>RST:HSD 5E12 and later</td>
</tr>
</tbody>
</table>

### 100.1 High-Speed Synchronous Data Link Controller

<table>
<thead>
<tr>
<th>Topic/Purpose</th>
<th>Message ID/ Software Release Range</th>
</tr>
</thead>
<tbody>
<tr>
<td>Diagnoses the specified high-speed synchronous data link controller (HSDC).</td>
<td>DGN:HSDC 5E12 and later</td>
</tr>
<tr>
<td>Exercises a high-speed synchronous datalink controller (HSDC) in an interactive diagnostic mode.</td>
<td>EX:HSDC 5E12 and later</td>
</tr>
<tr>
<td>Requests that the specified high-speed synchronous data link controller (HSDC) be removed from service.</td>
<td>RMV:HSDC 5E12 and later</td>
</tr>
<tr>
<td>Requests that a high-speed synchronous data link (HSD) controller (HSDC) be restored to service.</td>
<td>RST:HSDC 5E12 and later</td>
</tr>
</tbody>
</table>

## 101. HIGH PRIORITY REMOTE INTERFACE

<table>
<thead>
<tr>
<th>Topic/Purpose</th>
<th>Message ID/ Software Release Range</th>
</tr>
</thead>
<tbody>
<tr>
<td>To deactivate the high priority terminal feature.</td>
<td>CLR:HPRI 5E12 and later</td>
</tr>
<tr>
<td>To determine the status of high priority terminal feature.</td>
<td>OP:HPRI 5E12 and later</td>
</tr>
<tr>
<td>To requests that a terminal be set up as a high priority terminal.</td>
<td>SET:HPRI 5E12 and later</td>
</tr>
</tbody>
</table>

## 102. INHIBITS

<table>
<thead>
<tr>
<th>Topic/Purpose</th>
<th>Message ID/ Software Release Range</th>
</tr>
</thead>
<tbody>
<tr>
<td>Requests a list of all inhibited administrative module error conditions, including ERRINT, ERRSRC, HDWCHK, and SFTCHK.</td>
<td>OP:ERRCHK 5E12 and later</td>
</tr>
</tbody>
</table>

## 103. IN-PROCESS CALL TRACING

<table>
<thead>
<tr>
<th>Topic/Purpose</th>
<th>Message ID/ Software Release Range</th>
</tr>
</thead>
<tbody>
<tr>
<td>Requests an in-progress call trace (IPCT) by using either the directory number (DN), the multiline hunt group and member number (MLHG), the trunk group and member number (TKGMN), or the process ID (PID) of the party to be traced.</td>
<td>TRC:IPCT-A 5E12 - 5E14</td>
</tr>
<tr>
<td>Requests an in-progress call trace (IPCT) by using either the directory number (DN), the multi-line hunt group (MLHG), and member number, the trunk group and member number (TKGMN), the process ID (PID), or the origination point code, destination point code, and raw call instance code (OPCDPC) of the party to be traced.</td>
<td>TRC:IPCT-B 5E15 and later</td>
</tr>
</tbody>
</table>

## 104. INPUT/OUTPUT PROCESSOR

<table>
<thead>
<tr>
<th>Topic/Purpose</th>
<th>Message ID/ Software Release Range</th>
</tr>
</thead>
<tbody>
<tr>
<td>Diagnoses the specified input/output processor (IOP).</td>
<td>DGN:IOP 5E12 and later</td>
</tr>
<tr>
<td>Exercises an input/output processor (IOP) in an interactive diagnostic mode.</td>
<td>EX:IOP</td>
</tr>
</tbody>
</table>

---

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<table>
<thead>
<tr>
<th>Topic/Purpose</th>
<th>Message ID/ Software Release Range</th>
</tr>
</thead>
<tbody>
<tr>
<td>Requests specific information about an IOP member number.</td>
<td>OP:IOP 5E12 and later</td>
</tr>
<tr>
<td>Requests that the specified input/output processor (IOP) and any associated peripheral controllers (PCs) be removed from service.</td>
<td>RMV:IOP 5E12 and later</td>
</tr>
<tr>
<td>Requests that an input/output processor (IOP) be restored to service.</td>
<td>RST:IOP 5E12 and later</td>
</tr>
</tbody>
</table>

104.1 Input/Output Processor Driver

<table>
<thead>
<tr>
<th>Topic/Purpose</th>
<th>Message ID/ Software Release Range</th>
</tr>
</thead>
<tbody>
<tr>
<td>Requests that option setting be allowed in the input/output processor (IOP) driver to suppress IOP driver messages.</td>
<td>CLR:IODRV 5E12 and later</td>
</tr>
<tr>
<td>Release a file from the input/output drivers chache memory.</td>
<td>CLR:IODMEM 5E12 and later</td>
</tr>
<tr>
<td>Reports the current options set for the administrative module (AM) input/output processor (IOP) driver messages.</td>
<td>OP:IODRV 5E12 and later</td>
</tr>
<tr>
<td>Requests that the input/output processor (IOP) driver (IODRV) print messages.</td>
<td>SET:IODRV 5E12 and later</td>
</tr>
</tbody>
</table>

105. INPUT MESSAGE CATALOG

<table>
<thead>
<tr>
<th>Topic/Purpose</th>
<th>Message ID/ Software Release Range</th>
</tr>
</thead>
<tbody>
<tr>
<td>Invalidates the memory segments of the old input message catalog, forcing the new one to be loaded into the main memory.</td>
<td>CLR:IMCAT 5E12 and later</td>
</tr>
</tbody>
</table>

106. INTEGRATED DIGITAL CARRIER UNIT

<table>
<thead>
<tr>
<th>Topic/Purpose</th>
<th>Message ID/ Software Release Range</th>
</tr>
</thead>
<tbody>
<tr>
<td>Requests that a specified action on an integrated digital carrier unit (IDCU) service group be aborted.</td>
<td>ABT:IDCU 5E12 and later</td>
</tr>
<tr>
<td>Requests that a specified action on an integrated digital carrier unit (IDCU) electrical line interface (ELI) circuit be aborted.</td>
<td>ABT:IDCUELI 5E12 and later</td>
</tr>
<tr>
<td>Requests that a specified action on an integrated digital carrier unit (IDCU) peripheral interface data bus (PIDB) or direct PIDB (DPIDB) pair (both IDCU service groups) be aborted.</td>
<td>ABT:IDCUPIDB 5E12 and later</td>
</tr>
<tr>
<td>Requests that the actions on a remote terminal (RT) for the specified unit circuit be aborted.</td>
<td>ABT:RMV-RT 5E12 and later</td>
</tr>
<tr>
<td>Requests that the actions on a remote terminal (RT) for the specified unit circuit be aborted.</td>
<td>ABT:RST-RT 5E12 and later</td>
</tr>
<tr>
<td>Requests that hardware error checks be allowed to be performed on the specified integrated digital carrier unit (IDCU) service group circuit.</td>
<td>ALW:HDW-IDCU 5E12 and later</td>
</tr>
<tr>
<td>Requests that hardware error checks be allowed to be performed on the specified integrated digital carrier unit (IDCU) electrical line interface (ELI) circuit.</td>
<td>ALW:HDW-IDCUELI 5E12 and later</td>
</tr>
<tr>
<td>Requests that the printing of remote terminal (RT) report messages at the Master Control Center (MCC) and the Switching Control Center (SCC) be allowed.</td>
<td>ALW:RT-REPT 5E12 and later</td>
</tr>
<tr>
<td>Requests that equipment numbers relating to remote terminals (RT) that interface to an integrated digital carrier unit (IDCU) or a digital networking unit - synchronous optical network (DNU-S) be converted.</td>
<td>CNVT:RT 5E12 and later</td>
</tr>
<tr>
<td>Requests that an integrated digital carrier unit (IDCU) service group circuit be diagnosed.</td>
<td>DGN:IDCU 5E12 and later</td>
</tr>
<tr>
<td>Requests that the contents of one or more sequential memory locations in the specified integrated digital carrier unit (IDCU) be dumped.</td>
<td>DUMP:UT-IDCU 5E12 and later</td>
</tr>
<tr>
<td>Requests that the contents of one or more sequential memory locations in the specified integrated digital carrier unit (IDCU) loop side interface (LSI) be dumped.</td>
<td>DUMP:UT-IDCULSI 5E12 and later</td>
</tr>
<tr>
<td>Requests that an integrated digital carrier unit (IDCU) service group circuit be interactively diagnosed.</td>
<td>EX:IDCU 5E12 and later</td>
</tr>
<tr>
<td>Requests the provisioning of a TR303 remote terminal (RT) on an integrated digital carrier unit</td>
<td>EXC:RT-PROV 5E12 and later</td>
</tr>
</tbody>
</table>
Requests that interrupts in an integrated digital carrier unit (IDCU) service group circuit be inhibited.

INH:HDW-IDCU
5E12 and later

Requests that interrupts in an integrated digital carrier unit (IDCU) electrical line interface (ELI) circuit be inhibited.

INH:HDW-IDCUEL
5E12 and later

Requests that the printing of remote terminal (RT) report messages at the Master Control Center (MCC) and the Switching Control Center (SCC) be inhibited.

INH:RT-REPT
5E12 and later

Requests that a value be loaded into the memory of the specified integrated digital carrier unit (IDCU).

LOAD:UT-IDCU
5E12 and later

Requests that a value be loaded into the memory of the specified integrated digital carrier unit (IDCU) loop side interface (LSI).

LOAD:UT-IDCULSI
5E12 and later

Requests a status message of the provisionable elements of a remote terminal (RT) terminating on an IDCU or DNUS.

OP:RT-PROV
5E12 and later

Requests the current status of the printing of remote terminal (RT) report messages at the Master Control Center (MCC) and the Switching Control Center (SCC).

OP:RT-REPT
5E12 and later

Requests that an integrated digital carrier unit (IDCU) service group circuit be removed from service.

RMV:IDCU
5E12 and later

Requests that an integrated digital carrier unit (IDCU) electrical line interface (ELI) circuit be removed from service unconditionally, by preempting the current user.

RMV:IDCUEL
5E12 and later

Requests that a remote terminal (RT) embedded operations channel (EOC) circuit be removed from service either conditionally, by waiting for it to become idle, or unconditionally, by preempting the current user.

RMV:IDCUEOC
5E12 and later

Requests that an integrated digital carrier unit (IDCU) peripheral interface data bus (PIDB) or direct PIDB (DPIDB) pair (both IDCU service groups) be removed from service.

RMV:IDCUPIDB
5E12 and later

Requests that a remote terminal (RT) timeslot management channel (TMC) circuit be removed from service either conditionally, by waiting for it to become idle, or unconditionally, by preempting the current user.

RMV:IDCUTMC
5E12 and later

Requests that an integrated digital carrier unit (IDCU) service group circuit be restored to service either conditionally or unconditionally.

RST:IDCU
5E12 and later

Requests that an integrated digital carrier unit (IDCU) electrical line interface (ELI) circuit be restored to service.

RST:IDCUEL
5E12 and later

Requests that a remote terminal (RT) embedded operations channel (EOC) circuit be restored to service.

RST:IDCUEOC
5E12 and later

Requests that an integrated digital carrier unit (IDCU) peripheral interface data bus (PIDB) or direct PIDB (DPIDB) pair (both IDCU service groups) be restored to service.

RST:IDCUPIDB
5E12 and later

Requests that a remote terminal (RT) timeslot management channel (TMC) circuit be restored to service.

RST:IDCUTMC
5E12 and later

Requests that actions on an integrated digital carrier unit (IDCU) service group circuit be stopped.

STP:IDCU
5E12 and later

Requests that actions on an integrated digital carrier unit (IDCU) electrical line interface (ELI) circuit be stopped.

STP:IDCUEL
5E12 and later

Requests that actions on a remote terminal (RT) embedded operations channel (EOC) circuit be stopped.

STP:IDCUEOC
5E12 and later

Requests that actions on an integrated digital carrier unit (IDCU) peripheral interface data bus (PIDB) or direct PIDB (DPIDB) pair (both IDCU service groups) be stopped.

STP:IDCUPIDB
5E12 and later

Requests that actions on a remote terminal (RT) timeslot Management channel (TMC) circuit be stopped.

STP:IDCUTMC
5E12 and later

Requests that the actions on a remote terminal (RT) for the specified unit circuit be stopped.

STP:RMV-RT
5E12 and later

Requests that the actions on a remote terminal (RT) for the specified unit circuit be stopped.

STP:RST-RT
5E12 and later

Requests that the active and standby integrated digital carrier unit (IDCU) service group circuits be switched (interchanged).

SW:IDCU
5E12 and later

Requests that the active and standby states of remote terminal (RT) embedded operations channel (EOC) circuits be switched (interchanged).

SW:IDCUEOC
5E12 and later

Requests that the active and standby states of remote terminal (RT) timeslot management channel (TMC) circuits be switched (interchanged).

SW:IDCUTMC
5E12 and later
### 108. INTEGRATED SERVICES LINE UNIT

<table>
<thead>
<tr>
<th>Topic/Purpose</th>
<th>Message ID/ Software Release Range</th>
</tr>
</thead>
<tbody>
<tr>
<td>Requests that actions be aborted on an integrated services line unit common controller (ISLUCC).</td>
<td>ABT:ISLUCC 5E12 and later</td>
</tr>
<tr>
<td>Requests that actions be aborted on an integrated services line unit common data (ISLUCD).</td>
<td>ABT:ISLUCD 5E12 and later</td>
</tr>
<tr>
<td>Allows hardware checks on an integrated services line unit common controller (CC) or common data (CD).</td>
<td>ALW:HDW-ISLU 5E12 and later</td>
</tr>
<tr>
<td>Requests that hardware checks be allowed on an integrated services line unit common data (ISLUCD).</td>
<td>ALW:HDW-ISLUCD 5E12 and later</td>
</tr>
<tr>
<td>Requests that line card/ network termination (NT) mismatch detection be allowed on integrated services digital network (ISDN) lines equipped with U-cards.</td>
<td>ALW:MISMATCH 5E12 and later</td>
</tr>
<tr>
<td>Requests that diagnostics be executed on an integrated services line unit common controller (ISLUCC).</td>
<td>DGN:ISLUCC 5E12 and later</td>
</tr>
<tr>
<td>Requests that diagnostics be executed on an integrated services line unit common data (ISLUCD).</td>
<td>DGN:ISLUCD 5E12 and later</td>
</tr>
<tr>
<td>Requests that diagnostics be executed on an integrated services line unit line card (ISLULC).</td>
<td>DGN:ISLUULC 5E12 and later</td>
</tr>
<tr>
<td>Requests that diagnostics be executed on an integrated services line unit line group controller (ISLUULGC).</td>
<td>DGN:ISLUULGC 5E12 and later</td>
</tr>
<tr>
<td>Requests that an integrated services line unit common controller (ISLUCC) be exercised</td>
<td>EX:ISLUCC 5E12 and later</td>
</tr>
</tbody>
</table>
### 108.1 Integrated Services Line Unit Common Controller

<table>
<thead>
<tr>
<th>Topic/Purpose</th>
<th>Message ID/ Software Release Range</th>
</tr>
</thead>
<tbody>
<tr>
<td>Requests that hardware checks be allowed on an integrated services line unit common controller (ISLUCC).</td>
<td>ALW:HDW-ISLUCC 5E12 and later</td>
</tr>
<tr>
<td>Requests that the contents of one or more sequential memory locations in the specified integrated services line unit common controller (ISLUCC) be dumped.</td>
<td>DUMP:UT-ISLUCC 5E12 and later</td>
</tr>
<tr>
<td>Requests that an unconditional call be made to a function using parameters in the specified integrated services line unit common controller (ISLUCC).</td>
<td>EXC:UT-ISLUCC 5E12 and later</td>
</tr>
<tr>
<td>Topic/Purpose</td>
<td>Message ID/ Software Release Range</td>
</tr>
<tr>
<td>------------------------------------------------------------------------------</td>
<td>-----------------------------------</td>
</tr>
<tr>
<td>Requests that a value be loaded into the memory of the specified integrated</td>
<td>LOAD:UT-ISLUCC 5E12 and later</td>
</tr>
<tr>
<td>services line unit common controller (ISLUCC).</td>
<td></td>
</tr>
<tr>
<td>Requests that an integrated services line unit common controller (ISLUCC) be</td>
<td>RMV:ISLUCC 5E12 and later</td>
</tr>
<tr>
<td>removed from service.</td>
<td></td>
</tr>
</tbody>
</table>

### 108.2 Integrated Services Line Unit High Level Service Circuit

<table>
<thead>
<tr>
<th>Topic/Purpose</th>
<th>Message ID/ Software Release Range</th>
</tr>
</thead>
<tbody>
<tr>
<td>Aborts a specified action on the integrated services line unit high level</td>
<td>ABT:ISLUHLSC 5E12 and later</td>
</tr>
<tr>
<td>service circuit (ISLUHLSC).</td>
<td></td>
</tr>
<tr>
<td>Allows listing of ring trip interrupts in an integrated services line unit</td>
<td>ALW:HDW-ISLUHLSC 5E12 and later</td>
</tr>
<tr>
<td>(ISLU) high level service circuit (HLSC).</td>
<td></td>
</tr>
<tr>
<td>Diagnoses an integrated services line unit high level service circuit</td>
<td>DGN:ISLUHLSC 5E12 and later</td>
</tr>
<tr>
<td>(ISLUHLSC) to determine whether it is in satisfactory working order.</td>
<td></td>
</tr>
<tr>
<td>Interactively diagnoses the integrated services line unit high level service</td>
<td>EX:ISLUHLSC 5E12 and later</td>
</tr>
<tr>
<td>circuit (ISLUHLSC).</td>
<td></td>
</tr>
<tr>
<td>Inhibits ring trip interrupts in an integrated services line unit (ISLU)</td>
<td>INH:HDW-ISLUHLSC 5E12 and later</td>
</tr>
<tr>
<td>high level service circuit (HLSC).</td>
<td></td>
</tr>
<tr>
<td>Requests that an integrated services line unit high level service circuit</td>
<td>RMV:ISLUHLSC 5E12 and later</td>
</tr>
<tr>
<td>(ISLUHLSC) be removed from service.</td>
<td></td>
</tr>
<tr>
<td>Requests that an integrated services line unit high level service circuit</td>
<td>RST:ISLUHLSC 5E12 and later</td>
</tr>
<tr>
<td>(ISLUHLSC) be restored to service.</td>
<td></td>
</tr>
<tr>
<td>Requests that the specified action on the integrated services line unit</td>
<td>STP:ISLUHLSC 5E12 and later</td>
</tr>
<tr>
<td>high level service circuit (ISLUHLSC) be stopped.</td>
<td></td>
</tr>
</tbody>
</table>

### 108.3 Integrated Services Line Unit Integrated Services Test Function

<table>
<thead>
<tr>
<th>Topic/Purpose</th>
<th>Message ID/ Software Release Range</th>
</tr>
</thead>
<tbody>
<tr>
<td>Aborts the specified actions on the integrated services test function (ISTF)</td>
<td>ABT:ISTF 5E12 and later</td>
</tr>
<tr>
<td>unit.</td>
<td></td>
</tr>
<tr>
<td>Allows hardware checks in an integrated services test function (ISTF) unit to</td>
<td>ALW:HDW-ISTF 5E12 and later</td>
</tr>
<tr>
<td>occur.</td>
<td></td>
</tr>
<tr>
<td>Diagnoses and removes an integrated service test function (ISTF) unit to</td>
<td>DGN:ISTF 5E12 and later</td>
</tr>
<tr>
<td>determine whether it is in satisfactory working order.</td>
<td></td>
</tr>
<tr>
<td>Interactively diagnoses the integrated services test function (ISTF) unit.</td>
<td>EX:ISTF 5E12 and later</td>
</tr>
<tr>
<td>Inhibits hardware checks in an integrated services test function (ISTF) unit.</td>
<td>INH:HDW-ISTF 5E12 and later</td>
</tr>
<tr>
<td>Requests that an integrated services test function (ISTF) unit be removed</td>
<td>RMV:ISTF 5E12 and later</td>
</tr>
<tr>
<td>from service.</td>
<td></td>
</tr>
<tr>
<td>Requests that an integrated services test function (ISTF) unit be restored</td>
<td>RST:ISTF 5E12 and later</td>
</tr>
<tr>
<td>to service.</td>
<td></td>
</tr>
<tr>
<td>Requests that the specified actions on the integrated services test function</td>
<td>STP:ISTF 5E12 and later</td>
</tr>
<tr>
<td>(ISTF) unit be stopped.</td>
<td></td>
</tr>
</tbody>
</table>

### 108.4 Integrated Services Line Unit Line Board

<table>
<thead>
<tr>
<th>Topic/Purpose</th>
<th>Message ID/ Software Release Range</th>
</tr>
</thead>
<tbody>
<tr>
<td>Request the actions be aborted on an integrated services line unit line</td>
<td>ABT:ISLULBD 5E12 and later</td>
</tr>
<tr>
<td>board (ISLULBD).</td>
<td></td>
</tr>
<tr>
<td>Requests that diagnostics be executed on an integrated services line unit</td>
<td>DGN:ISLULBD 5E12 and later</td>
</tr>
<tr>
<td>line board (ISLULBD).</td>
<td></td>
</tr>
<tr>
<td>Requests that an integrated services line unit line board (ISLULBD) be</td>
<td>EX:ISLULBD 5E12 and later</td>
</tr>
<tr>
<td>exercised (diagnosed interactively).</td>
<td></td>
</tr>
<tr>
<td>Requests that an integrated services line unit line board (ISLULBD) be</td>
<td>RMV:ISLULBD 5E12 and later</td>
</tr>
<tr>
<td>removed from service.</td>
<td></td>
</tr>
<tr>
<td>Requests that an integrated services line unit line board (ISLULBD) be</td>
<td>RST:ISLULBD 5E12 and later</td>
</tr>
<tr>
<td>restored to service.</td>
<td></td>
</tr>
</tbody>
</table>
### 108.5 Integrated Services Line Unit Line Circuit

<table>
<thead>
<tr>
<th>Topic/Purpose</th>
<th>Message ID/ Software Release Range</th>
</tr>
</thead>
<tbody>
<tr>
<td>Request the actions be aborted on an integrated services line unit line circuit (ISLULC KT).</td>
<td>ABT:ISLULC KT 5E12 and later</td>
</tr>
<tr>
<td>Requests that diagnostics be executed on an integrated services line unit line circuit (ISLULC KT).</td>
<td>DGN:ISLULC KT 5E12 and later</td>
</tr>
<tr>
<td>Requests that an integrated services line unit line circuit (ISLULC KT) be exercised (diagnosed interactively).</td>
<td>EX:ISLULC KT 5E12 and later</td>
</tr>
<tr>
<td>Requests that an integrated services line unit line circuit (ISLULC KT) be removed from service.</td>
<td>RMV:ISLULC KT 5E12 and later</td>
</tr>
<tr>
<td>Requests that an integrated services line unit line circuit (ISLULC KT) be restored to service.</td>
<td>RST:ISLULC KT 5E12 and later</td>
</tr>
<tr>
<td>Requests the actions be stopped on an integrated services line unit line circuit (ISLULC KT).</td>
<td>STP:ISLULC KT 5E12 and later</td>
</tr>
</tbody>
</table>

### 108.6 Integrated Services Line Unit Line Group

<table>
<thead>
<tr>
<th>Topic/Purpose</th>
<th>Message ID/ Software Release Range</th>
</tr>
</thead>
<tbody>
<tr>
<td>Requests actions be aborted on an integrated services line unit line group (ISLULG).</td>
<td>ABT:ISLULG 5E12 and later</td>
</tr>
<tr>
<td>Requests that diagnostics be executed on an integrated services line unit line group (ISLULG).</td>
<td>DGN:ISLULG 5E12 and later</td>
</tr>
<tr>
<td>Requests that an integrated services line unit line group (ISLULG) be removed service.</td>
<td>RMV:ISLULG 5E12 and later</td>
</tr>
<tr>
<td>Requests that an integrated services line unit line group (ISLULG) be restored to service.</td>
<td>RST:ISLULG 5E12 and later</td>
</tr>
<tr>
<td>Requests the actions be stopped on an integrated services line unit line group (ISLULG).</td>
<td>STP:ISLULG 5E12 and later</td>
</tr>
</tbody>
</table>

### 108.7 Integrated Services Line Unit Metallic Access Network

<table>
<thead>
<tr>
<th>Topic/Purpose</th>
<th>Message ID/ Software Release Range</th>
</tr>
</thead>
<tbody>
<tr>
<td>Request the actions be aborted on an integrated services line unit line card (ISLULG).</td>
<td>ABT:ISLULC 5E12 and later</td>
</tr>
<tr>
<td>Requests actions be aborted on an integrated services line unit line group controller (ISLULGC).</td>
<td>ABT:ISLULGC 5E12 and later</td>
</tr>
<tr>
<td>Aborts a specified action on the integrated services line unit metallic access network (ISLUMAN).</td>
<td>ABT:ISLUMAN 5E12 and later</td>
</tr>
<tr>
<td>Allows listing of interrupts in an integrated services line unit (ISLU) metallic access network (MAN).</td>
<td>ALW:HDW-ISLUMAN 5E12 and later</td>
</tr>
<tr>
<td>Diagnoses an integrated services line unit metallic access network (ISLUMAN) to determine whether it is in satisfactory working order.</td>
<td>DGN:ISLUMAN 5E12 and later</td>
</tr>
<tr>
<td>Interactively diagnoses the integrated services line unit metallic access network (ISLUMAN).</td>
<td>EX:ISLUMAN 5E12 and later</td>
</tr>
<tr>
<td>Inhibits interrupts in an integrated services line unit (ISLU) metallic access network (MAN).</td>
<td>INH:HDW-ISLUMAN 5E12 and later</td>
</tr>
<tr>
<td>Requests that an integrated services line unit metallic access network (ISLUMAN) be removed from service.</td>
<td>RMV:ISLUMAN 5E12 and later</td>
</tr>
<tr>
<td>Requests that an integrated services line unit metallic access network (ISLUMAN) be restored to service.</td>
<td>RST:ISLUMAN 5E12 and later</td>
</tr>
<tr>
<td>Requests that specified action on the integrated services line unit metallic access network (ISLUMAN) be stopped.</td>
<td>STP:ISLUMAN 5E12 and later</td>
</tr>
</tbody>
</table>
### 108.8 Integrated Services Line Unit Peripheral Interface Data Bus

<table>
<thead>
<tr>
<th>Topic/Purpose</th>
<th>Message ID/ Software Release Range</th>
</tr>
</thead>
<tbody>
<tr>
<td>Aborts actions on an integrated services line unit peripheral interface data bus (PIDB) pair (both service groups).</td>
<td>ABT:ISLUPIDB 5E12 and later</td>
</tr>
<tr>
<td>Requests that the contents of one or more sequential memory locations in the specified packet interface (PI) unit be dumped.</td>
<td>DUMP:UT-MCTSI-PI-A 5E12 - 5E15</td>
</tr>
<tr>
<td>Requests that the contents of one or more sequential memory locations in the specified packet interface (PI) unit be dumped.</td>
<td>DUMP:UT-MCTSI-PI-B 5E16(1) and later</td>
</tr>
<tr>
<td>Format 1 requests that an unconditional call to a function using parameters in the specified peripheral interface (PI) unit be executed.</td>
<td>EXC:UT-MCTSI-PI 5E12 and later</td>
</tr>
<tr>
<td>Requests that a value be loaded into the memory of the specified peripheral interface (PI) unit.</td>
<td>LOAD:UT-MCTSI-PI 5E12 and later</td>
</tr>
<tr>
<td>Requests that an integrated services line unit peripheral interface data bus (ISLUPIDB) pair be removed from service.</td>
<td>RMV:ISLUPIDB 5E12 and later</td>
</tr>
<tr>
<td>Requests that an integrated services line unit peripheral interface data bus (ISLUPIDB) pair be restored to service.</td>
<td>RST:ISLUPIDB 5E12 and later</td>
</tr>
<tr>
<td>Requests that removes and restores on an integrated services line unit (ISLU) peripheral interface data bus (PIDB) pair (both service groups) be stopped.</td>
<td>STP:ISLUPIDB 5E12 and later</td>
</tr>
</tbody>
</table>

### 108.9 Integrated Services Line Unit Ringing Generator

<table>
<thead>
<tr>
<th>Topic/Purpose</th>
<th>Message ID/ Software Release Range</th>
</tr>
</thead>
<tbody>
<tr>
<td>Aborts a specified action on the integrated services line unit ringing generator (ISLURG).</td>
<td>ABT:ISLURG 5E12 and later</td>
</tr>
<tr>
<td>Allows listing of error sources in an integrated services line unit (ISLU) ringing generator (RG).</td>
<td>ALW:HDW-ISLURG 5E12 and later</td>
</tr>
<tr>
<td>Diagnoses an integrated services line unit ringing generator (ISLURG) to determine whether it is in satisfactory working order.</td>
<td>DGN:ISLURG 5E12 and later</td>
</tr>
<tr>
<td>Interactively diagnoses the integrated services line unit ringing generator (ISLURG).</td>
<td>EX:ISLURG 5E12 and later</td>
</tr>
<tr>
<td>Inhibits error sources in an integrated services line unit (ISLU) ringing generator (RG).</td>
<td>INH:HDW-ISLURG 5E12 and later</td>
</tr>
<tr>
<td>Requests that an integrated services line unit ringing generator (ISLURG) be removed from service.</td>
<td>RMV:ISLURG 5E12 and later</td>
</tr>
<tr>
<td>Requests that an integrated services line unit ringing generator (ISLURG) be restored to service.</td>
<td>RST:ISLURG 5E12 and later</td>
</tr>
<tr>
<td>Requests that the specified action on the integrated services line unit ringing generator (ISLURG) be stopped.</td>
<td>STP:ISLURG 5E12 and later</td>
</tr>
</tbody>
</table>

### 109. INTER-WORKING GATEWAY

<table>
<thead>
<tr>
<th>Topic/Purpose</th>
<th>Message ID/ Software Release Range</th>
</tr>
</thead>
<tbody>
<tr>
<td>Requests that actions be aborted on an inter-working gateway facility (IWGFAC).</td>
<td>ABT:IWGFAA 5E15 and later</td>
</tr>
<tr>
<td>Requests that actions be aborted on an inter-working gateway link interface (IWGLI).</td>
<td>ABT:IWGILI 5E15 and later</td>
</tr>
<tr>
<td>Allows hardware checks on an inter-working gateway link interface (IWGLI).</td>
<td>ALW:HDW:IWGILI 5E15 and later</td>
</tr>
<tr>
<td>Requests that diagnostics be executed on an inter-working gateway link interface (IWGLI).</td>
<td>DGN:IWGILI 5E15 and later</td>
</tr>
<tr>
<td>Inhibits hardware checks on an inter-working gateway link interface (IWGLI) unit.</td>
<td>INH:HDW:IWGILI 5E15 and later</td>
</tr>
<tr>
<td>Requests that an inter-working gateway facility (IWGFAC) be removed from service.</td>
<td>RMV:IWGFAA 5E15 and later</td>
</tr>
<tr>
<td>Requests that an inter-working gateway link interface (IWGLI) be removed from service.</td>
<td>RMV:IWGILI 5E15 and later</td>
</tr>
</tbody>
</table>
### 110. INTER-WORKING UNIT

<table>
<thead>
<tr>
<th>Topic/Purpose</th>
<th>Message ID/Software Release Range</th>
</tr>
</thead>
<tbody>
<tr>
<td>Requests that an inter-working gateway facility (IWGFAC) be restored to service.</td>
<td>RST:IWGFAC 5E15 and later</td>
</tr>
<tr>
<td>Requests that an inter-working gateway link interface (IWGLI) be restored to service.</td>
<td>RST:IWGLI 5E15 and later</td>
</tr>
<tr>
<td>Requests the actions be stopped on an inter-working gateway facility (IWGFAC).</td>
<td>STP:IWGFAC 5E15 and later</td>
</tr>
<tr>
<td>Requests the actions be stopped on an inter-working gateway link interface (IWGLI).</td>
<td>STP:IWGLI 5E15 and later</td>
</tr>
<tr>
<td>Stops pending or currently running test(s) of a digital loop-back (LPBK) test on inter-working gateway (IWG) or the end to end test call.</td>
<td>STP:TST-PATH-A 5E15 only</td>
</tr>
<tr>
<td>Stops pending or currently running test(s) of a digital loop-back (LPBK) test on inter-working gateway (IWG) or the end to end test call.</td>
<td>STP:TST-PATH-B 5E16(1) only</td>
</tr>
<tr>
<td>Stops pending or currently running test(s) of a digital loop-back (LPBK) test on inter-working gateway (IWG) or the end to end test call.</td>
<td>STP:TST-PATH-C 5E16(2) and later</td>
</tr>
<tr>
<td>Requests that the active/standby of an inter-working gateway link interface (IWGLI) be switched (interchanged).</td>
<td>SW:IWGLI 5E15 and later</td>
</tr>
</tbody>
</table>

Format 1 is for requesting the automatic digital 64Kbps pseudo random bit error rate (BER) loopback test call on inter-working gateway (IWG) paths.

- **Format 1**: TST:PATH-A 5E15 only
- **Format 1**: TST:PATH-B 5E16(1) only
- **Format 1**: TST:PATH-C 5E16(2) and later

### 111. JOB STATUS

<table>
<thead>
<tr>
<th>Topic/Purpose</th>
<th>Message ID/Software Release Range</th>
</tr>
</thead>
<tbody>
<tr>
<td>Requests a report of the status of all terminal maintenance jobs initiated through the trunk and line work station (TLWS) maintenance automatic task administrator or the AUTOPLEX® automatic task administrator (AATA) currently active in the system.</td>
<td>OP:JOBSTATUS-A 5E12 - 5E14</td>
</tr>
<tr>
<td>Requests a report of the status of all terminal maintenance jobs initiated through the trunk and line work station (TLWS) maintenance automatic task administrator or the AUTOPLEX® automatic task administrator (AATA) currently active in the system.</td>
<td>OP:JOBSTATUS-B 5E15 and later</td>
</tr>
</tbody>
</table>

### 112. LIBRARY PROGRAM

<table>
<thead>
<tr>
<th>Topic/Purpose</th>
<th>Message ID/Software Release Range</th>
</tr>
</thead>
<tbody>
<tr>
<td>Aborts the library program in the administrative module (AM) and/or switching modules (SMs) as specified, and the scratch area used in the SM for the library program is released.</td>
<td>ABT:LIB 5E12 and later</td>
</tr>
<tr>
<td>Clears a library program from the scratch area in the switching module (SM), and another team to use the SM for library program testing.</td>
<td>CLR:LIB 5E12 and later</td>
</tr>
<tr>
<td>Requests that the existence of the specified library program be verified and loads the scratch memory area of the listed switching modules (SMs) with the library program.</td>
<td>LOAD:LIB 5E12 and later</td>
</tr>
<tr>
<td>Requests information about the library programs that exist on the administrative module (AM) disk.</td>
<td>OP:LIB-DISK 5E12 and later</td>
</tr>
</tbody>
</table>
Requests information about the current status of library programs currently loaded or running on the system.  
OP:LIB-STATUS  
5E12 and later

Requests that the previously loaded library program be started in the administrative module (AM) and/or switching modules (SMs) specified.  
ST:LIB  
5E12 and later

Requests that the previously started library program be stopped in the administrative module (AM) and/or switching modules (SMs) specified.  
STP:LIB  
5E12 and later

Provides the data string entered to the specified library program(s).  
TELL:LIB  
5E12 and later

### 113. LINE INSULATION TEST

<table>
<thead>
<tr>
<th>Topic/Purpose</th>
<th>Message ID/ Software Release Range</th>
</tr>
</thead>
</table>
| Requests that line insulation testing (LIT) be initiated, altered or verified. | EXC:LIT  
5E12 and later |
| Reports the progress of automatic line insulation testing (ALIT), showing the ALIT testing status for each modular metallic service unit (MMSU) in the office. | OP:LIT  
5E12 and later |
| Requests a graceful termination of a line insulation testing (LIT) session. | STP:LIT  
5E12 and later |

### 114. LINE UNIT

<table>
<thead>
<tr>
<th>Topic/Purpose</th>
<th>Message ID/ Software Release Range</th>
</tr>
</thead>
</table>
| Requests that actions on the line unit path exerciser (LUPEX) be aborted at the specified location. | ABT:TST-LEN  
5E12 and later |
| Requests an unconditional restoration of the out-of-service (OOS) common controller for each offline pumpable peripheral after a peripheral offline pump has been performed on one or more switching modules (SMs). | RST:PERF  
5E12 and later |
| Requests that actions on the line unit path exerciser (LUPEX) be stopped at the specified location. | STP:TST-LEN  
5E12 and later |
| Requests that a specified path be exercised through the line unit path exerciser (LUPEX). | TST:LEN  
5E12 and later |

#### 114.1 Line Unit A-Link

<table>
<thead>
<tr>
<th>Topic/Purpose</th>
<th>Message ID/ Software Release Range</th>
</tr>
</thead>
</table>
| Requests that a line unit model 2 (LU2) or a line unit model 3 (LU3) A-link be removed from service. | RMV:ALINK  
5E12 and later |
| Requests that a line unit model 2 (LU2) or a line unit model 3 (LU3) A-link be restored to the active state. | RST:ALINK  
5E12 and later |
| Requests that an out-of-service line unit model 2 (LU2) or a line unit model 3 (LU3) A-link (ALINK) be manually set to a specific state. | SET:ALINK  
5E12 and later |

#### 114.2 Line Unit Channel

<table>
<thead>
<tr>
<th>Topic/Purpose</th>
<th>Message ID/ Software Release Range</th>
</tr>
</thead>
</table>
| Requests that actions on the line unit channel (LUCHAN) be aborted at the specified location. | ABT:LUCHAN  
5E12 and later |
| Allows hardware error checks to be performed on the specified line unit channel (LUCHAN). | ALW:HDW-LUCHAN  
5E12 and later |
| Requests that a line unit channel (LUCHAN) on a line unit channel board (LUCHBD) be removed and diagnosed to determine if it is in satisfactory working order. | DGN:LUCHAN  
5E12 and later |
| Interactively diagnoses the line unit channel (LUCHAN). | EX:LUCHAN  
5E12 and later |
| Inhibits the hardware error checks performed on the specified line unit channel (LUCHAN). | INH:HDW-LUCHAN  
5E12 and later |
| Requests that a line unit channel (LUCHAN) be removed from service. | RMV:LUCHAN  
5E12 and later |
### 114.3 Line Unit Channel Board

<table>
<thead>
<tr>
<th>Topic/Purpose</th>
<th>Message ID/ Software Release Range</th>
</tr>
</thead>
<tbody>
<tr>
<td>Requests that actions on the line unit channel board (LUCHBD) be aborted at the specified location.</td>
<td>ABT:LUCHBD 5E12 and later</td>
</tr>
<tr>
<td>Requests that actions on the line unit channel board (LUCHBD) be removed and diagnosed to determine whether it is in satisfactory working order.</td>
<td>DGN:LUCHBD 5E12 and later</td>
</tr>
<tr>
<td>Requests that actions on the line unit channel board (LUCHBD) be removed from service.</td>
<td>RMV:LUCHBD 5E12 and later</td>
</tr>
<tr>
<td>Conditionally or unconditionally restores a line unit channel board (LUCHBD) to service.</td>
<td>RST:LUCHBD 5E12 and later</td>
</tr>
<tr>
<td>Requests that actions on the line unit channel board (LUCHBD) at the specified location be stopped.</td>
<td>STP:LUCHBD 5E12 and later</td>
</tr>
</tbody>
</table>

### 114.4 Line Unit Command Control

<table>
<thead>
<tr>
<th>Topic/Purpose</th>
<th>Message ID/ Software Release Range</th>
</tr>
</thead>
<tbody>
<tr>
<td>Requests that actions on the line unit common control (LUOMC) be aborted at the specified location.</td>
<td>ABT:LUOMC 5E12 and later</td>
</tr>
<tr>
<td>Allows hardware error checks to be performed on the specified line unit common control (LUOMC).</td>
<td>ALW:HDW-LUOMC 5E12 and later</td>
</tr>
<tr>
<td>Requests that a line unit common control (LUOMC) be diagnosed.</td>
<td>DGN:LUOMC 5E12 and later</td>
</tr>
<tr>
<td>Interactively diagnoses the line unit common control (LUOMC).</td>
<td>EX:LUOMC 5E12 and later</td>
</tr>
<tr>
<td>Inhibits the hardware error checks performed on the specified line unit common control (LUOMC).</td>
<td>INH:HDW-LUOMC 5E12 and later</td>
</tr>
<tr>
<td>Requests that a line unit common control (LUOMC) be removed from service.</td>
<td>RMV:LUOMC 5E12 and later</td>
</tr>
<tr>
<td>Conditionally or unconditionally restores a line unit common control (LUOMC) to service.</td>
<td>RST:LUOMC 5E12 and later</td>
</tr>
<tr>
<td>Requests that actions on the line unit common control (LUOMC) at the specified location be stopped.</td>
<td>STP:LUOMC 5E12 and later</td>
</tr>
<tr>
<td>Requests that the selection of line unit common data and control (LUOMC) circuits for gated diode crosspoint (GDX) control be switched.</td>
<td>SW:LUOMC 5E12 and later</td>
</tr>
</tbody>
</table>

### 114.5 Line Unit High Level Service Circuit

<table>
<thead>
<tr>
<th>Topic/Purpose</th>
<th>Message ID/ Software Release Range</th>
</tr>
</thead>
<tbody>
<tr>
<td>Requests that actions on the line unit high level service circuit (LUHLSC) be aborted at the specified location.</td>
<td>ABT:LUHLSC 5E12 and later</td>
</tr>
<tr>
<td>Allows hardware error checks to be performed on the specified line unit high level service circuit (LUHLSC).</td>
<td>ALW:HDW-LUHLSC 5E12 and later</td>
</tr>
<tr>
<td>Requests that a line unit high service circuit (LUHLSC) be removed and diagnosed to determine if it is in satisfactory working order.</td>
<td>DGN:LUHLSC 5E12 and later</td>
</tr>
<tr>
<td>Interactively diagnoses the line unit high level service circuit (LUHLSC).</td>
<td>EX:LUHLSC 5E12 and later</td>
</tr>
<tr>
<td>Inhibits the hardware error checks performed on the specified line unit high service circuit (LUHLSC).</td>
<td>INH:HDW-LUHLSC 5E12 and later</td>
</tr>
</tbody>
</table>
114.6 Line Unit Model 2 Grid Board

<table>
<thead>
<tr>
<th>Topic/Purpose</th>
<th>Message ID/ Software Release Range</th>
</tr>
</thead>
<tbody>
<tr>
<td>Aborts the scheduled action on the line unit model 2 (LU2) or line unit model 3 (LU3) grid board.</td>
<td>ABT:GRIDBD 5E12 and later</td>
</tr>
<tr>
<td>Allows hardware error checks to be performed on the specified line unit model 2 (LU2) or line unit model 3 (LU3) grid board.</td>
<td>ALW:HDW-GRIDBD 5E12 and later</td>
</tr>
<tr>
<td>Diagnoses a line unit model-2 (LU2) or line unit model-3 (LU3) grid board to determine if it is in satisfactory working order.</td>
<td>DGN:GRIDBD 5E12 and later</td>
</tr>
<tr>
<td>Requests interactive diagnostic (exercises) of the line unit model 2 (LU2) or line unit model 3 (LU3) grid board.</td>
<td>EX:GRIDBD 5E12 and later</td>
</tr>
<tr>
<td>Requests a line unit model 2 (LU2) or line unit model 3 (LU3) grid board be removed from service.</td>
<td>RMV:GRIDBD 5E12 and later</td>
</tr>
<tr>
<td>Requests a line unit model 2 (LU2) or line unit model 3 (LU3) grid board be restored to the active state.</td>
<td>RST:GRIDBD 5E12 and later</td>
</tr>
<tr>
<td>Requests that currently running actions on a line unit model 2 (LU2) or line unit model 3 (LU3) grid board be stopped.</td>
<td>STP:GRIDBD 5E12 and later</td>
</tr>
<tr>
<td>Tests a specified gated diode crosspoint half-grid board in a line unit model 2 (LU2) or a line unit model 3 (LU3) by running a fabric exerciser routine.</td>
<td>TST:GRIDBD 5E12 and later</td>
</tr>
</tbody>
</table>

115. LINK INTERFACE

<table>
<thead>
<tr>
<th>Topic/Purpose</th>
<th>Message ID/ Software Release Range</th>
</tr>
</thead>
<tbody>
<tr>
<td>Aborts a diagnostic or exercise on the link interface (LI) subunit of the specified office network and timing complex (ONTC).</td>
<td>ABT:LI 5E12 and later</td>
</tr>
<tr>
<td>Requests that the link interface (LI) in the specified office network and timing complex (ONTC) be diagnosed.</td>
<td>DGN:LI 5E12 and later</td>
</tr>
<tr>
<td>Requests that the link interface (LI) be exercised in an interactive mode.</td>
<td>EX:LI 5E12 and later</td>
</tr>
<tr>
<td>Requests information from internal registers of the link interface (LI) or the specified office network and timing complex (ONTC) side.</td>
<td>OP:ST-LI 5E12 and later</td>
</tr>
<tr>
<td>Requests that a diagnostic or exercise on the link interface (LI) on the specified office network and timing complex (ONTC) be stopped.</td>
<td>STP:LI 5E12 and later</td>
</tr>
</tbody>
</table>

116. LOADING

<table>
<thead>
<tr>
<th>Topic/Purpose</th>
<th>Message ID/ Software Release Range</th>
</tr>
</thead>
<tbody>
<tr>
<td>Requests that a virtual address be loaded with specified data as an action associated with a breakpoint.</td>
<td>LOAD:ADDR 5E12 and later</td>
</tr>
<tr>
<td>Loads an administrative module (AM) physical byte address with specified data as an immediate operation or as a generic access package (GRASP) breakpoint action.</td>
<td>LOAD:PMEM 5E12 and later</td>
</tr>
<tr>
<td>Loads an administrative module (AM) register with specified data as a breakpoint action.</td>
<td>LOAD:REG 5E12 and later</td>
</tr>
<tr>
<td>Requests that a value be loaded into the memory of the specified foundation peripheral controller (FPC).</td>
<td>LOAD:UT-FPC-A 5E12 - 5E14</td>
</tr>
<tr>
<td>Requests that a value be loaded into the memory of the specified foundation peripheral controller (FPC).</td>
<td>LOAD:UT-FPC-B 5E15 and later</td>
</tr>
<tr>
<td>Requests that a value be loaded into the memory of the specified module message processor (MMP).</td>
<td>LOAD:UT-MMP-A 5E12 - 5E14</td>
</tr>
<tr>
<td>Requests that a value be loaded into the memory of the specified module message processor</td>
<td>LOAD:UT-MMP-B</td>
</tr>
</tbody>
</table>
**117. LOCAL AREA SIGNALING SERVICES**

<table>
<thead>
<tr>
<th>Topic/Purpose</th>
<th>Message ID/ Software Release Range</th>
</tr>
</thead>
<tbody>
<tr>
<td>Requests the report of the incoming line history block (ILHB) information for local area signaling services (LASS).</td>
<td>OP:ILHB 5E12 and later</td>
</tr>
<tr>
<td>Requests the report of the outgoing line history block (OLHB) information for local area signaling services (LASS).</td>
<td>OP:OLHB 5E12 and later</td>
</tr>
</tbody>
</table>

**118. LOCAL NUMBER PORTABILITY**

<table>
<thead>
<tr>
<th>Topic/Purpose</th>
<th>Message ID/ Software Release Range</th>
</tr>
</thead>
<tbody>
<tr>
<td>Requests that an Operator Services Position System (OSPS) local number portability (LNP) common channel signaling system 7 (CCS7) transaction capabilities application part (TCAP) test query be sent to the LNP/network control point (NCP) database to verify its operation.</td>
<td>TST:LNP 5E12 and later</td>
</tr>
</tbody>
</table>

**119. LOCAL DIGITAL SERVICE FUNCTION**

<table>
<thead>
<tr>
<th>Topic/Purpose</th>
<th>Message ID/ Software Release Range</th>
</tr>
</thead>
<tbody>
<tr>
<td>Aborts actions on the local digital service function (LDSF).</td>
<td>ABT:LDSF 5E12 and later</td>
</tr>
<tr>
<td>Allows maintenance hardware checks in a local digital service function (LDSF) circuit to occur.</td>
<td>ALW:HDW-LDSF 5E12 and later</td>
</tr>
<tr>
<td>Diagnoses a local digital service function (LDSF) circuit to determine whether it is in satisfactory working order.</td>
<td>DGN:LDSF 5E12 and later</td>
</tr>
<tr>
<td>Interactively diagnoses the local digital service function (LDSF) circuit.</td>
<td>EX:LDSF 5E12 and later</td>
</tr>
<tr>
<td>Checks hardware in a local digital service function (LDSF) circuit.</td>
<td>INH:HDW-LDSF 5E12 and later</td>
</tr>
<tr>
<td>Requests that a local digital services function (LDSF) circuit be removed from service.</td>
<td>RMV:LDSF 5E12 and later</td>
</tr>
<tr>
<td>Conditionally or unconditionally restores a local digital service function (LDSF) circuit to service.</td>
<td>RST:LDSF 5E12 and later</td>
</tr>
<tr>
<td>Requests that actions on the local digital service function (LDSF) circuit be stopped.</td>
<td>STP:LDSF 5E12 and later</td>
</tr>
</tbody>
</table>

**120. LOCAL DIGITAL SERVICE UNIT**

<table>
<thead>
<tr>
<th>Topic/Purpose</th>
<th>Message ID/ Software Release Range</th>
</tr>
</thead>
<tbody>
<tr>
<td>Aborts actions on the local digital service unit - model 2 (LDSU2).</td>
<td>ABT:LDSU 5E12 and later</td>
</tr>
<tr>
<td>Allows maintenance hardware checks in a local digital service unit - model 2 (LDSU2) board to occur.</td>
<td>ALW:HDW-LDSU 5E12 and later</td>
</tr>
<tr>
<td>Diagnoses a local digital service unit - model 2 (LDSU2) board to determine whether it is in satisfactory working order.</td>
<td>DGN:LDSU 5E12 and later</td>
</tr>
<tr>
<td>Interactively diagnoses the local digital service unit - model 2 (LDSU2) board.</td>
<td>EX:LDSU 5E12 and later</td>
</tr>
<tr>
<td>Checks hardware in a local digital service unit - model 2 (LDSU2) board.</td>
<td>INH:HDW-LDSU 5E12 and later</td>
</tr>
</tbody>
</table>
Requests that a local digital services unit - model 2 (LDSU2) board be removed from service. | RMV:LDSU 5E12 and later
---|---
Conditionally or unconditionally restores a local digital service unit - model 2 (LDSU2) board to service. | RST:LDSU 5E12 and later
Requests that actions on the local digital service unit - model 2 (LDSU2) board be stopped. | STP:LDSU 5E12 and later

### 120.1 Local Digital Service Unit Common Board

<table>
<thead>
<tr>
<th>Topic/Purpose</th>
<th>Message ID/ Software Release Range</th>
</tr>
</thead>
<tbody>
<tr>
<td>Requests that actions on the local digital service unit common (LDSUCOM) board be aborted at the specified location.</td>
<td>ABT:LDSUCOM 5E12 and later</td>
</tr>
<tr>
<td>Allows hardware error checks to be performed on the specified local digital service unit common (LDSUCOM) board.</td>
<td>ALW:HDW-LDSUCOM 5E12 and later</td>
</tr>
<tr>
<td>Requests that a local digital service unit common (LDSUCOM) board be diagnosed to determine whether it is in satisfactory working order.</td>
<td>DGN:LDSUCOM 5E12 and later</td>
</tr>
<tr>
<td>Interactively diagnoses the local digital service circuit common (LDSUCOM) board.</td>
<td>EX:LDSUCOM 5E12 and later</td>
</tr>
<tr>
<td>Inhibits the hardware error checks performed on the specified local digital service unit common (LDSUCOM) board.</td>
<td>INH:HDW-LDSUCOM 5E12 and later</td>
</tr>
<tr>
<td>Requests that a local digital services unit common (LDSUCOM) board be removed from service.</td>
<td>RMV:LDSUCOM 5E12 and later</td>
</tr>
<tr>
<td>Conditionally or unconditionally restores a local digital service unit common (LDSUCOM) board to service.</td>
<td>RST:LDSUCOM 5E12 and later</td>
</tr>
<tr>
<td>Requests that actions on the local digital service unit common board (LDSUCOM) at the specified location be stopped.</td>
<td>STP:LDSUCOM 5E12 and later</td>
</tr>
</tbody>
</table>

### 121. LOGS

<table>
<thead>
<tr>
<th>Topic/Purpose</th>
<th>Message ID/ Software Release Range</th>
</tr>
</thead>
<tbody>
<tr>
<td>Requests that logging of all errors for a specified administrative module (AM) unit and any units beneath it that are reported to CONFIG be allowed.</td>
<td>ALW:CONFLOG 5E12 and later</td>
</tr>
<tr>
<td>To enable the logging of customer-originated recent changes for one or more switching modules (SMs).</td>
<td>ALW:CORCLOG-SM 5E12 and later</td>
</tr>
<tr>
<td>Requests that logging of recent changes be allowed for all processors.</td>
<td>ALW:RCLOG 5E12 and later</td>
</tr>
<tr>
<td>Requests that the log/print status (LPS) of one or all output message class(es) be changed.</td>
<td>CHG:LPS-MSGCLS 5E12 and later</td>
</tr>
<tr>
<td>Requests that customer-originated recent change (CORC) logfiles be evolved (converted) and reapplied.</td>
<td>CNVT:CORCLOG 5E12 and later</td>
</tr>
<tr>
<td>Requests that recent change (RC) logfiles be Evolved (converted) to a format compatible with the target software release.</td>
<td>CNVT:RCLOG 5E12 and later</td>
</tr>
<tr>
<td>Requests that the office dependent data (ODD) recent change (RC) log file be copied from disk to magnetic tape.</td>
<td>COPY:LOG-TAPE 5E12 and later</td>
</tr>
<tr>
<td>Requests deletion of selected contents of a logfile and cleans out corrupt entries from the file.</td>
<td>DEL:LOG 5E12 and later</td>
</tr>
<tr>
<td>Requests reapplication of customer-originated and/or regular recent changes (RCs) from the disk log.</td>
<td>EXC:ODDRCVY 5E12 and later</td>
</tr>
<tr>
<td>Inhibits error logging on the CONFLOG error logfile for all specified central processor units.</td>
<td>INH:CONFLOG 5E12 and later</td>
</tr>
<tr>
<td>Inhibits the logging of customer-originated recent changes for one or more switching modules (SMs).</td>
<td>INH:CORCLOG-SM 5E12 and later</td>
</tr>
<tr>
<td>Inhibits the logging of recent changes for all processors.</td>
<td>INH:RCLOG 5E12 and later</td>
</tr>
<tr>
<td>Reports how much disk space (in bytes) is left for logging recent changes and customer-originated recent changes.</td>
<td>OP:AVAILLOG 5E12 and later</td>
</tr>
<tr>
<td>Requests the reporting of the number of customer-originated recent changes (CORCs) that are logged in one or more switching modules (SMs) and/or one or more communication</td>
<td>OP:CORCSTAT-SM 5E12 and later</td>
</tr>
</tbody>
</table>
### 122. MACHINE-DETECTED INTEROFFICE IRREGULARITY

<table>
<thead>
<tr>
<th>Topic/Purpose</th>
<th>Message ID/ Software Release Range</th>
</tr>
</thead>
<tbody>
<tr>
<td>Requests that a specific machine-detected interoffice irregularity (MDII) that has reporting suppressed be allowed to be printed again.</td>
<td>ALW:MDII-A 5E12 - 5E15</td>
</tr>
<tr>
<td>Requests that a specific machine-detected interoffice irregularity (MDII) that has reporting suppressed be allowed to be printed again.</td>
<td>ALW:MDII-B 5E16(1) and later</td>
</tr>
<tr>
<td>Requests that the printing of a specific machine-detected interoffice irregularity (MDII) be suppressed.</td>
<td>INH:MDII-A 5E12 - 5E15</td>
</tr>
<tr>
<td>Requests that the printing of a specific machine-detected interoffice irregularity (MDII) be suppressed.</td>
<td>INH:MDII-B 5E16(1) and later</td>
</tr>
<tr>
<td>Requests a list of all of the trunk groups and machine-detected interoffice irregularities (MDII)s that are being suppressed by a suppression MDII.</td>
<td>OP:MDII 5E12 and later</td>
</tr>
<tr>
<td>Requests print-out of the threshold counts, operational all tests passed count, and purge count of a trunk circuit (Formats  1, 2, 3 and 4) or universal tone decoder (UTD) (Format 5), universal tone generator (UTG) (Format 6), or revertive pulsing trunk (Format 7) on the trunk error analysis lists.</td>
<td>OP:TERACNTS-A 5E12 only</td>
</tr>
<tr>
<td>Requests print-out of the threshold counts, operational all tests passed count, and purge count of a trunk circuit, universal tone decoder (UTD), universal tone generator (UTG), or revertive pulsing trunk on he trunk error analysis lists.</td>
<td>OP:TERACNTS-B 5E13 - 5E15</td>
</tr>
<tr>
<td>Requests print-out of the threshold counts, operational all tests passed count, and purge count of a trunk circuit, universal tone decoder (UTD), universal tone generator (UTG), or revertive pulsing trunk on he trunk error analysis lists.</td>
<td>OP:TERACNTS-C 5E16(1) and later</td>
</tr>
</tbody>
</table>

### 123. MAGNETIC TAPE

<table>
<thead>
<tr>
<th>Topic/Purpose</th>
<th>Message ID/ Software Release Range</th>
</tr>
</thead>
<tbody>
<tr>
<td>Diagnoses the specified magnetic tape (MT).</td>
<td>DGN:MT 5E12 and later</td>
</tr>
<tr>
<td>Exercises a magnetic tape (MT) in an interactive diagnostic mode.</td>
<td>EX:MT 5E12 and later</td>
</tr>
<tr>
<td>Requests information regarding the specified small computer system interface (SCSI) magnetic tape (MT).</td>
<td>OP:MT-INFO 5E12 and later</td>
</tr>
</tbody>
</table>

### 123.1 Magnetic Tape Controller

<table>
<thead>
<tr>
<th>Topic/Purpose</th>
<th>Message ID/ Software Release Range</th>
</tr>
</thead>
<tbody>
<tr>
<td>Diagnoses the specified magnetic tape controller (MTC).</td>
<td>DGN:MTC 5E12 and later</td>
</tr>
<tr>
<td>Exercises a magnetic tape controller (MTC) in an interactive diagnostic mode.</td>
<td>EX:MTC 5E12 and later</td>
</tr>
<tr>
<td>Requests that the specified magnetic tape controller (MTC) and any associated magnetic tape drives be removed from service.</td>
<td>RMV:MTC 5E12 and later</td>
</tr>
</tbody>
</table>
123.2 Magnetic Tape Device

<table>
<thead>
<tr>
<th>Topic/Purpose</th>
<th>Message ID/ Software Release Range</th>
</tr>
</thead>
<tbody>
<tr>
<td>Requests that the specified magnetic tape (MT) device be removed from service.</td>
<td>RMV:MT 5E12 and later</td>
</tr>
<tr>
<td>Restores the specified magnetic tape (MT) device to service.</td>
<td>RST:MT 5E12 and later</td>
</tr>
</tbody>
</table>

124. MAINTENANCE STATUS

<table>
<thead>
<tr>
<th>Topic/Purpose</th>
<th>Message ID/ Software Release Range</th>
</tr>
</thead>
<tbody>
<tr>
<td>Allows previously inhibited or suspended sources to send automatic maintenance requests to the administrative module (AM) maintenance input request administrator (MIRA).</td>
<td>ALW:DMQ 5E12 and later</td>
</tr>
<tr>
<td>Request that the specified source of automatic maintenance requests be inhibited.</td>
<td>INH:DMQ 5E12 and later</td>
</tr>
<tr>
<td>Requests a list of the queue from the administrative module (AM) maintenance input request administrator.</td>
<td>OP:DMQ 5E12 and later</td>
</tr>
<tr>
<td>Requests the status of all active and waiting requests in the deferred maintenance queues (DMQ).</td>
<td>OP:DMQ-CM-SM 5E12 and later</td>
</tr>
<tr>
<td>Requests that the specified administrative module (AM) maintenance request be stopped.</td>
<td>STOP:DMQ 5E12 and later</td>
</tr>
<tr>
<td>Requests that the specified administrative module (AM) maintenance request be stopped.</td>
<td>STP:DMQ-SM 5E14 and later</td>
</tr>
</tbody>
</table>

125. MAINTENANCE TELETYPETRWR

<table>
<thead>
<tr>
<th>Topic/Purpose</th>
<th>Message ID/ Software Release Range</th>
</tr>
</thead>
<tbody>
<tr>
<td>Requests that the specified maintenance teletypewriter (MTTY) be removed from service.</td>
<td>RMV:MTTY 5E12 and later</td>
</tr>
<tr>
<td>Restores the specified maintenance teletypewriter (MTTY) to service.</td>
<td>RST:MTTY 5E12 and later</td>
</tr>
</tbody>
</table>

125.1 Maintenance Teletypewriter Controller

<table>
<thead>
<tr>
<th>Topic/Purpose</th>
<th>Message ID/ Software Release Range</th>
</tr>
</thead>
<tbody>
<tr>
<td>Diagnoses the specified maintenance teletypewriter controller (MTTYC).</td>
<td>DGN:MTTYC 5E12 and later</td>
</tr>
<tr>
<td>Exercises a maintenance teletypewriter controller (MTTYC) in an interactive diagnostic mode.</td>
<td>EX:MTTYC 5E12 and later</td>
</tr>
<tr>
<td>Requests that the specified maintenance teletypewriter controller (MTTYC) and all associated maintenance teletypewriters, read-only printers, and Switching Control Center (SCC) data link devices be removed from service.</td>
<td>RMV:MTTYC 5E12 and later</td>
</tr>
<tr>
<td>Restores conditionally or unconditionally a maintenance teletypewriter controller (MTTYC) to service.</td>
<td>RST:MTTYC 5E12 and later</td>
</tr>
</tbody>
</table>

126. MASTER CONTROL CENTER

<table>
<thead>
<tr>
<th>Topic/Purpose</th>
<th>Message ID/ Software Release Range</th>
</tr>
</thead>
<tbody>
<tr>
<td>Request to display the text, activation status and default confirmation prompt for a specified</td>
<td>OP:CONFIRM</td>
</tr>
</tbody>
</table>
### 127. MEMORY

<table>
<thead>
<tr>
<th>Topic/Purpose</th>
<th>Message ID/ Software Release Range</th>
</tr>
</thead>
<tbody>
<tr>
<td>This message configures the switching modules (SMs) physical memory after memory board growth to incorporate the memory added into the spare memory hole.</td>
<td>CFR:PMEM 5E12 and later</td>
</tr>
<tr>
<td>Requests that a section or sections of switching module (SM) memory be allocated/deallocated from the spare memory hole for the peripheral image or images that resides in the peripheral unit specified on the input message line.</td>
<td>CFR:SPRMEM-A 5E12 - 5E13</td>
</tr>
<tr>
<td>Requests that a section or sections of switching module (SM) memory be allocated/deallocated from the spare memory hole for the peripheral image or images that resides in the peripheral unit specified on the input message line.</td>
<td>CFR:SPRMEM-B 5E14 only</td>
</tr>
<tr>
<td>Requests that a section or sections of switching module (SM) memory be allocated/deallocated from the spare memory hole for the peripheral image or images that resides in the peripheral unit specified on the input message line.</td>
<td>CFR:SPRMEM-C 5E15 only</td>
</tr>
<tr>
<td>Requests that a section or sections of switching module (SM) memory be allocated/deallocated from the spare memory hole for the peripheral image or images that resides in the peripheral unit specified on the input message line.</td>
<td>CFR:SPRMEM-D 5E16(1) only</td>
</tr>
<tr>
<td>Requests that a section or sections of switching module (SM) memory be allocated/deallocated from the spare memory hole for the peripheral image or images that resides in the peripheral unit specified on the input message line.</td>
<td>CFR:SPRMEM-E 5E16(2) and later</td>
</tr>
<tr>
<td>Requests that the variable sections of switching module (SM) memory be dumped.</td>
<td>DUMP:SMMAP 5E12 and later</td>
</tr>
<tr>
<td>Requests a download into switching module (SM) memory from administrative module (AM) disk of the peripheral image or images that reside in the peripheral unit specified on the input message line.</td>
<td>ST:NIPMP-A 5E12 - 5E13</td>
</tr>
<tr>
<td>Requests a download into switching module (SM) memory from administrative module (AM) disk of the peripheral image or images that reside in the peripheral unit specified on the input message line.</td>
<td>ST:NIPMP-B 5E14 only</td>
</tr>
<tr>
<td>Requests a download into switching module (SM) memory from administrative module (AM) disk of the peripheral image or images that reside in the peripheral unit specified on the input message line.</td>
<td>ST:NIPMP-C 5E15 only</td>
</tr>
<tr>
<td>Requests a download into switching module (SM) memory from administrative module (AM) disk of the peripheral image or images that reside in the peripheral unit specified on the input message line.</td>
<td>ST:NIPMP-D 5E16(1) only</td>
</tr>
<tr>
<td>Requests a download into switching module (SM) memory from administrative module (AM) disk of the peripheral image or images that reside in the peripheral unit specified on the input message line.</td>
<td>ST:NIPMP-E 5E16(2) and later</td>
</tr>
<tr>
<td>Requests that a non-interfering pump for the specified switching module (SM) be canceled.</td>
<td>STP:NIPMP 5E12 and later</td>
</tr>
<tr>
<td>Requests an update of flash random access memory (RAM) on a specified peripheral controller (PC).</td>
<td>UPD:FLASH 5E12 and later</td>
</tr>
</tbody>
</table>

### 128. MESSAGE INTERFACE

<table>
<thead>
<tr>
<th>Topic/Purpose</th>
<th>Message ID/ Software Release Range</th>
</tr>
</thead>
<tbody>
<tr>
<td>Aborts a diagnostic or exercise on the message interface (MI) on the specified office network and timing complex (ONTC).</td>
<td>ABT:MI 5E12 and later</td>
</tr>
<tr>
<td>Requests that the message interface (MI) in the specified office network and timing complex (ONTC) be diagnosed.</td>
<td>DGN:MI-A 5E12 - 5E14</td>
</tr>
<tr>
<td>Requests that the message interface (MI) in the specified office network and timing complex (ONTC) be diagnosed.</td>
<td>DGN:MI-B 5E15 and later</td>
</tr>
</tbody>
</table>
Requests that the message interface (MI) be exercised in an interactive mode. | EX:MI-A  
| 5E12 - 5E14

Requests that the message interface (MI) be exercised in an interactive mode. | EX:MI-B  
| 5E15 and later

Requests the hardware state of the message interface (MI). | OP:ST-MI-A  
| 5E12 - 5E14

Requests the hardware state of the message interface (MI). | OP:ST-MI-B  
| 5E15 and later

Requests that a diagnostic or exercise on the message interface (MI) on the specified office network and timing complex (ONTC) be stopped. | STP:MI  
| 5E12 - 5E14

### 128.1 Message Interface Clock Unit

<table>
<thead>
<tr>
<th>Topic/Purpose</th>
<th>Message ID/ Software Release Range</th>
</tr>
</thead>
</table>
| Requests that a diagnostic or exercise be aborted on a message interface and clock unit (MICU) subunit of the office network and timing complex (ONTC). | ABT:MICU  
| 5E12 and later |
| Requests that a message interface control unit (MICU) subunit of the specified office network and timing complex (ONTC) be diagnosed. | DGN:MICU  
| 5E12 and later |
| Requests that a diagnostic or exercise on the message interface and clock unit (MICU) subunit of the office network and timing complex (ONTC) be stopped. | STP:MICU  
| 5E12 and later |

### 129. MESSAGE SWITCH

<table>
<thead>
<tr>
<th>Topic/Purpose</th>
<th>Message ID/ Software Release Range</th>
</tr>
</thead>
</table>
| Aborts actions on a message switch (MSGS). | ABT:MSGS  
| 5E12 and later |
| Requests diagnostics on a message switch (MSGS) to determine if it is in satisfactory working order. | DGN:MSGS-A  
| 5E12 - 5E14 |
| Requests diagnostics on a message switch (MSGS) to determine if it is in satisfactory working order. | DGN:MSGS-B  
| 5E15 and later |
| Outputs the current firmware version of the CM3 ONTC or CM3 MSGS requested at the Master Control Center (MCC) and the Switching Control Center (SCC). | OP:VERS  
| 5E15 and later |
| Requests that a message switch (MSGS) be removed from service. | RMV:MSGS  
| 5E12 and later |
| Restores a message switch (MSGS) to an in service condition. | RST:MSGS  
| 5E12 and later |
| Requests that specific actions on the specified message switch (MSGS) complex be stopped. | STP:MSGS  
| 5E12 and later |

### 129.1 Message Switch Control Unit

<table>
<thead>
<tr>
<th>Topic/Purpose</th>
<th>Message ID/ Software Release Range</th>
</tr>
</thead>
</table>
| Aborts an action on the message switch control unit (MSCU) on the specified message switch (MSGS). | ABT:MSCU  
| 5E12 and later |
| Allows hardware checks (errors) on a message switch control unit (MSCU). | ALW:HDW-MSCU  
| 5E12 and later |
| Diagnoses the specified message switch control unit (MSCU). | DGN:MSCU  
| 5E12 and later |
| Requests that the message switch control unit (MSCU) be exercised in an interactive mode. | EX:MSCU  
| 5E12 and later |
| Inhibits hardware checks (errors) on a message switch control unit (MSCU). | INH:HDW-MSCU  
| 5E9(1) and later |
| Requests that a message switch control unit (MSCU) be removed from service. | RMV:MSCU  
| 5E12 and later |
| Conditionally or unconditionally restores a message switch control unit (MSCU) to the active state. | RST:MSCU  
| 5E12 and later |
| Requests that specific actions on the specified message switch control unit (MSCU) be | STP:MSCU |
## 130. MESSAGE WAITING INDICATOR

<table>
<thead>
<tr>
<th>Topic/Purpose</th>
<th>Message ID/ Software Release Range</th>
</tr>
</thead>
<tbody>
<tr>
<td>Requests that a Message Service System (MSS) message waiting indicator (MWI) be deactivated for a given seven-digit directory number (DN).</td>
<td>CLR:MWI 5E12 and later</td>
</tr>
<tr>
<td>Requests that a Message Service System (MSS) message waiting indicator (MWI) be activated for a given seven-digit directory number (DN).</td>
<td>SET:MWI 5E12 and later</td>
</tr>
</tbody>
</table>

## 131. METALLIC ACCESS

<table>
<thead>
<tr>
<th>Topic/Purpose</th>
<th>Message ID/ Software Release Range</th>
</tr>
</thead>
<tbody>
<tr>
<td>Requests that actions on the metallic access (MA) circuit be aborted at the specified location.</td>
<td>ABT:MA 5E12 and later</td>
</tr>
<tr>
<td>Requests that a metallic access (MA) board be diagnosed to determine whether it is in satisfactory working order.</td>
<td>DGN:MA 5E12 and later</td>
</tr>
<tr>
<td>Requests interactive diagnostics (exercises) of the metallic access (MA) board.</td>
<td>EX:MA 5E12 and later</td>
</tr>
<tr>
<td>Requests that a metallic access (MA) board be removed from service.</td>
<td>RMV:MA 5E12 and later</td>
</tr>
<tr>
<td>Requests that a metallic access (MA) board in a metallic service unit (MSU) be conditionally or unconditionally restored to service.</td>
<td>RST:MA 5E12 and later</td>
</tr>
<tr>
<td>Requests that actions on the metallic access (MA) board at the specified location be stopped.</td>
<td>STP:MA 5E12 and later</td>
</tr>
</tbody>
</table>

### 131.1 Metallic Access Bus

<table>
<thead>
<tr>
<th>Topic/Purpose</th>
<th>Message ID/ Software Release Range</th>
</tr>
</thead>
<tbody>
<tr>
<td>Requests that actions on the metallic access bus (MAB) be aborted at the specified locations.</td>
<td>ABT:MAB 5E12 and later</td>
</tr>
<tr>
<td>Requests that actions on the metallic access circuit be aborted at the specified location.</td>
<td>ABT:MTB 5E12 and later</td>
</tr>
<tr>
<td>Requests that the metallic access bus (MAB) be diagnosed to determine whether it is in satisfactory working order.</td>
<td>DGN:MAB 5E12 and later</td>
</tr>
<tr>
<td>Requests that a metallic access test bus (MTB) be diagnosed to determine whether it is in satisfactory working order.</td>
<td>DGN:MTB 5E12 and later</td>
</tr>
<tr>
<td>Requests that the metallic access bus (MAB) be exercised to determine whether it is in satisfactory working order.</td>
<td>EX:MAB 5E12 and later</td>
</tr>
<tr>
<td>Requests interactive diagnostics (exercises) of the metallic access test bus (MTB).</td>
<td>EX:MTB 5E12 and later</td>
</tr>
<tr>
<td>Requests that the metallic access bus (MAB) be removed from service.</td>
<td>RMV:MAB 5E12 and later</td>
</tr>
<tr>
<td>Requests that a metallic access test bus (MTB) be removed from service.</td>
<td>RMV:MTB 5E12 and later</td>
</tr>
<tr>
<td>Requests that the metallic access bus (MAB) be restored to the active state conditionally or unconditionally.</td>
<td>RST:MAB 5E12 and later</td>
</tr>
<tr>
<td>Requests a metallic access test bus (MTB) in a metallic access board (MA) be conditionally or unconditionally restored to service.</td>
<td>RST:MTB 5E12 and later</td>
</tr>
<tr>
<td>Requests that actions on the metallic access bus (MAB) at the specified location be stopped.</td>
<td>STP:MAB 5E12 and later</td>
</tr>
<tr>
<td>Requests that actions on the metallic access test bus (MTB) at the specified location be stopped.</td>
<td>STP:MTB 5E12 and later</td>
</tr>
</tbody>
</table>

## 132. METALLIC SERVICE UNIT
**132.1 Metallic Service Unit Distribute Point**

<table>
<thead>
<tr>
<th>Topic/Purpose</th>
<th>Message ID/ Software Release Range</th>
</tr>
</thead>
<tbody>
<tr>
<td>Requests that a metallic service unit (MSU)/ modular metallic service unit (MMSU) distribute point be exercised.</td>
<td>EX:DISTPT 5E12 and later</td>
</tr>
</tbody>
</table>

**132.2 Metallic Service Unit Common Board**

<table>
<thead>
<tr>
<th>Topic/Purpose</th>
<th>Message ID/ Software Release Range</th>
</tr>
</thead>
<tbody>
<tr>
<td>Requests that actions on the metallic service unit common (MSUCOM) board be aborted at the specified location.</td>
<td>ABT:MSUCOM 5E12 and later</td>
</tr>
<tr>
<td>Requests that a metallic service unit common (MSUCOM) board be diagnosed to determine whether it is in satisfactory working order.</td>
<td>DGN:MSUCOM 5E12 and later</td>
</tr>
<tr>
<td>Interactively diagnoses (exercises) the metallic service unit common (MSUCOM) board.</td>
<td>EX:MSUCOM 5E12 and later</td>
</tr>
<tr>
<td>Requests that a metallic service unit common (MSUCOM) board be removed from service.</td>
<td>RMV:MSUCOM 5E12 and later</td>
</tr>
<tr>
<td>Requests that a metallic service unit common (MSUCOM) board be conditionally or unconditionally restored to service.</td>
<td>RST:MSUCOM 5E12 and later</td>
</tr>
<tr>
<td>Requests that actions on the metallic service unit common (MSUCOM) board at the specified location be stopped.</td>
<td>STP:MSUCOM 5E12 and later</td>
</tr>
</tbody>
</table>

**132.3 Metallic Service Unit Scan Points**

<table>
<thead>
<tr>
<th>Topic/Purpose</th>
<th>Message ID/ Software Release Range</th>
</tr>
</thead>
<tbody>
<tr>
<td>Requests the output of the status of the scan points (SP) on a metallic service unit (MSU) scan board.</td>
<td>OP:MSUSP 5E12 and later</td>
</tr>
</tbody>
</table>

**133. METALLIC TEST BUS**

<table>
<thead>
<tr>
<th>Topic/Purpose</th>
<th>Message ID/ Software Release Range</th>
</tr>
</thead>
<tbody>
<tr>
<td>Requests that metallic setup failure override be allowed when the metallic test bus (MTB) is found to be open between the test bus control unit (TBCU) and the remote terminal (RT).</td>
<td>ALW:RTMTBOVR 5E12 and later</td>
</tr>
<tr>
<td>Requests that the printing of the REPT RTMTB-SID output message be allowed when the metallic test bus (MTB) fails the closed diode protocol test during metallic setup to a remote terminal (RT).</td>
<td>ALW:RTMTBPRT 5E12 and later</td>
</tr>
<tr>
<td>Requests that metallic setup failure override be inhibited when the metallic test bus (MTB) is found to be open between the test bus control unit (TBCU) and the remote terminal (RT).</td>
<td>INH:RTMTBOVR 5E12 and later</td>
</tr>
<tr>
<td>Requests that the printing of the REPT RTMTB SID message be inhibited when the metallic test bus (MTB) fails the closed diode protocol test during metallic setup to a remote terminal (RT).</td>
<td>INH:RTMTBPRT 5E12 and later</td>
</tr>
</tbody>
</table>

**134. METALLIC TEST INTERCONNECT BUS**

<table>
<thead>
<tr>
<th>Topic/Purpose</th>
<th>Message ID/ Software Release Range</th>
</tr>
</thead>
<tbody>
<tr>
<td>Requests that actions on the metallic test interconnect bus (MTIB) be aborted at the specified locations.</td>
<td>ABT:MTIB 5E12 and later</td>
</tr>
<tr>
<td>Requests that the metallic test interconnect bus (MTIB) be diagnosed to determine whether it is in satisfactory working order.</td>
<td>DGN:MTIB 5E12 and later</td>
</tr>
<tr>
<td>Exercises the metallic test interconnect bus (MTIB) to determine if it is in satisfactory working order.</td>
<td>EX:MTIB 5E12 and later</td>
</tr>
<tr>
<td>Requests that the metallic test interconnect bus (MTIB) be removed from service.</td>
<td>RMV:MTIB 5E12 and later</td>
</tr>
<tr>
<td>Restores the metallic test interconnect bus (MTIB) to the active state conditionally or</td>
<td>RST:MTIB 5E12 and later</td>
</tr>
</tbody>
</table>
Requests that actions on the metallic test interconnect bus (MTIB) at the specified location be stopped.  
\[ \text{STP:MTIB} \quad 5E12 \text{ and later} \]

### 134.1 Metallic Test Interconnect Bus Access

<table>
<thead>
<tr>
<th>Topic/Purpose</th>
<th>Message ID/ Software Release Range</th>
</tr>
</thead>
<tbody>
<tr>
<td>Requests that actions on the metallic test interconnect bus access (MTIBAX) be aborted at the specified locations.</td>
<td>ABT:MTIBAX 5E12 and later</td>
</tr>
<tr>
<td>Requests that the metallic test interconnect bus access (MTIBAX) be diagnosed to determine whether it is in satisfactory working order.</td>
<td>DGN:MTIBAX 5E12 and later</td>
</tr>
<tr>
<td>Exercises the metallic test interconnect bus access (MTIBAX) to determine whether it is in satisfactory working order.</td>
<td>EX:MTIBAX 5E12 and later</td>
</tr>
<tr>
<td>Requests that the metallic test interconnect bus access (MTIBAX) be removed from service.</td>
<td>RMV:MTIBAX 5E12 and later</td>
</tr>
<tr>
<td>Restores the metallic test interconnect bus access (MTIBAX) to the active state conditionally or unconditionally.</td>
<td>RST:MTIBAX 5E12 and later</td>
</tr>
<tr>
<td>Requests that actions on the metallic test interconnect bus access (MTIBAX) at the specified location be stopped.</td>
<td>STP:MTIBAX 5E12 and later</td>
</tr>
</tbody>
</table>

### 135. MODULE CONTROLLER/TIME-SLOT INTERCHANGE

<table>
<thead>
<tr>
<th>Topic/Purpose</th>
<th>Message ID/ Software Release Range</th>
</tr>
</thead>
<tbody>
<tr>
<td>Requests that actions on the module controller/time slot interchange (MCTSI) be aborted at the specified location.</td>
<td>ABT:MCTSI 5E12 and later</td>
</tr>
<tr>
<td>Clears the forced condition from the module controller time-slot interchange (MCTSI) in the switching modules (SM) specified.</td>
<td>CLR:MCTSI 5E12 and later</td>
</tr>
<tr>
<td>Removes and diagnoses a module control/time-slot interchange unit (MCTSI) to determine if it is in satisfactory working order.</td>
<td>DGN:MCTSI 5E12 and later</td>
</tr>
<tr>
<td>Requests that the contents of one or more sequential memory locations in the specified message handler (MH) unit be dumped.</td>
<td>DUMP:UT-MCTSI-MH 5E12 and later</td>
</tr>
<tr>
<td>Interactively diagnoses (exercises) the module controller/time-slot interchange (MCTSI) unit.</td>
<td>EX:MCTSI 5E12 and later</td>
</tr>
<tr>
<td>Requests that an unconditional call to a function be executed using parameters in the specified message handler (MH) unit.</td>
<td>EXC:UT-MCTSI-MH-A 5E12 - 5E16(1)</td>
</tr>
<tr>
<td>Format 1 requests that an unconditional call to a function using parameters in the specified message handler (MH) unit be executed.</td>
<td>EXC:UT-MCTSI-MH-B 5E16(2) and later</td>
</tr>
<tr>
<td>Requests that a value(s) be loaded into the memory of the specified message handler (MH) unit.</td>
<td>LOAD:UT-MCTSI-MH 5E12 and later</td>
</tr>
<tr>
<td>Requests that a module controller/time-slot interchange unit (MCTSI) be removed from service.</td>
<td>RMV:MCTSI 5E12 and later</td>
</tr>
<tr>
<td>Requests that a module control/time slot interchange unit (MCTSI) be conditionally or unconditionally restored to the active state.</td>
<td>RST:MCTSI 5E12 and later</td>
</tr>
<tr>
<td>Requests that the specified side of module control/time slot interchange units (MCTSI) be forced to the active state, by using the administrative module intervention (AMI).</td>
<td>SET:MCTSI 5E12 and later</td>
</tr>
<tr>
<td>Requests that actions on the module controller/time slot interchange (MCTSI) at the specified location be stopped.</td>
<td>STP:MCTSI 5E12 and later</td>
</tr>
<tr>
<td>Requests that a module controller/time slot interchange (MCTSI) be switched from standby to active.</td>
<td>SW:MCTSI 5E12 and later</td>
</tr>
</tbody>
</table>

### 136. MCTI Links

<table>
<thead>
<tr>
<th>Topic/Purpose</th>
<th>Message ID/ Software Release Range</th>
</tr>
</thead>
<tbody>
<tr>
<td>Requests a printout of the maintenance state of the MCTSI-based ethernet links (MELNKS) and MCTSI-based ethernet pipes (MEPIPES) on a switching module (SM).</td>
<td>OP:ST-MELNK 5E12 and later</td>
</tr>
<tr>
<td>Requests that an MCTSI-based ethernet link (MELNK) be removed from service.</td>
<td>RMV:MELNK 5E12 and later</td>
</tr>
</tbody>
</table>
Requests that a single MCTSI-based ethernet link (MELNK) or all MELNKs on a switching module (SM) be restored to service.

RST:MELNK
5E12 and later

### 137. MODULE MESSAGE PROCESSOR

<table>
<thead>
<tr>
<th>Topic/Purpose</th>
<th>Message ID/ Software Release Range</th>
</tr>
</thead>
<tbody>
<tr>
<td>Requests that actions on the specified module message processor (MMP) be aborted.</td>
<td>ABT:MMP</td>
</tr>
<tr>
<td>Requests that hardware error checks be allowed to be performed on the specified module message processor (MMP).</td>
<td>ALW:HDW-MMP</td>
</tr>
<tr>
<td>Requests that a module message processor (MMP) be diagnosed to determine whether it is in satisfactory working order.</td>
<td>DGN:MMP</td>
</tr>
<tr>
<td>Requests that the contents of one or more sequential memory locations in the specified module message processor (MMP) be dumped.</td>
<td>DUMP:UT-MMP-A</td>
</tr>
<tr>
<td>Requests that the contents of one or more sequential memory locations in the specified module message processor (MMP) be dumped.</td>
<td>DUMP:UT-MMP-B</td>
</tr>
<tr>
<td>Requests that the module message processor (MMP) be exercised in an interactive mode.</td>
<td>EX:MMP</td>
</tr>
<tr>
<td>Requests that an unconditional call to a function using parameters in the specified module message processor (MMP) be executed.</td>
<td>EXC:UT-MMP-A</td>
</tr>
<tr>
<td>Requests that an unconditional call to a function using parameters in the specified module message processor (MMP) be executed.</td>
<td>EXC:UT-MMP-B</td>
</tr>
<tr>
<td>Requests that hardware error checks on the specified module message processor (MMP) be inhibited.</td>
<td>INH:HDW-MMP</td>
</tr>
<tr>
<td>Requests that a value be loaded into the memory of the specified module message processor (MMP).</td>
<td>LOAD:UT-MMP-A</td>
</tr>
<tr>
<td>Requests that a value be loaded into the memory of the specified module message processor (MMP).</td>
<td>LOAD:UT-MMP-B</td>
</tr>
<tr>
<td>Requests that the specified module message processor (MMP) be removed from service.</td>
<td>RMV:MMP</td>
</tr>
<tr>
<td>Requests that a module message processor (MMP) be restored to the active state.</td>
<td>RST:MMP</td>
</tr>
<tr>
<td>Requests that actions on the specified message module processor (MMP) be stopped.</td>
<td>STP:MMP</td>
</tr>
</tbody>
</table>

### 138. MOVING HEAD DISK

<table>
<thead>
<tr>
<th>Topic/Purpose</th>
<th>Message ID/ Software Release Range</th>
</tr>
</thead>
<tbody>
<tr>
<td>Requests that the automatic moving head disk (MHD) configuration feature be enabled for the entire office or for a specific MHD.</td>
<td>ALW:AUTOCFG</td>
</tr>
<tr>
<td>To clear a given moving head disk’s (MHD’s) media access error counter (MAEC).</td>
<td>CLR:MHD-MAEC</td>
</tr>
<tr>
<td>Compares the contents of two disks or two disk partitions.</td>
<td>CMPR:MHD</td>
</tr>
<tr>
<td>Diagnoses the specified moving head disk (MHD).</td>
<td>DGN:MHD</td>
</tr>
<tr>
<td>Dumps the contents of a specified single disk block or a range of blocks, in hexadecimal.</td>
<td>DUMP:MHD-BLOCK</td>
</tr>
<tr>
<td>Dumps defect management information for a moving head disk (MHD).</td>
<td>DUMP:MHD-DEFECT</td>
</tr>
<tr>
<td>Formats and prints the contents of a disk pack’s volume table of contents (VTOC).</td>
<td>DUMP:MHD-VTOC</td>
</tr>
<tr>
<td>Exercises a moving head disk (MHD) in an interactive diagnostic mode.</td>
<td>EX:MHD</td>
</tr>
<tr>
<td>Requests that the automatic moving head disk (MHD) configuration feature be disabled for the entire office or for a specific MHD.</td>
<td>INH:AUTOCFG</td>
</tr>
<tr>
<td>Formats all or specific disk tracks of the disk pack with initialized sectors.</td>
<td>INT:MHD</td>
</tr>
<tr>
<td>Loads new defect location data on to a moving head disk (MHD).</td>
<td>LOAD:MHD</td>
</tr>
</tbody>
</table>
5E12 and later

Requests that the executable microcode and/or control information be loaded into the control memory of a small computer system interface (SCSI) moving head disk (MHD).

LOAD:MHD-FIRMWARE

5E12 and later

Requests the current configuration of the moving head disks (MHDs) and the status of the automatic MHD configuration (CFG) feature.

OP:MHD-CFG

5E12 and later

Requests information regarding the specified moving head disk (MHD).

OP:MHD-INFO

5E12 and later

Requests that the specified moving head disk (MHD) be removed from service.

RMV:MHD

5E12 and later

Conditionally or unconditionally restores a moving head disk (MHD) to service.

RST:MHD

5E12 and later

Stops any CMPR:MHD input messages that are currently executing.

STOP:CMPR-MHD

5E12 and later

Stops any CMPR:MHD input messages that are currently executing.

STP:CMPR-MHD

5E12 and later

Requests a software switch of the logical names of the moving head disks (MHDs).

SW:MHD

5E12 and later

Reads all or specific disk tracks/blocks and verifies the header and error-correction code of each sector of the tracks/blocks read.

VFY:MHD

5E12 and later

139. NAIL-UP CONNECTIONS

<table>
<thead>
<tr>
<th>Topic/Purpose</th>
<th>Message ID/ Software Release Range</th>
</tr>
</thead>
<tbody>
<tr>
<td>Outputs a status list of all inter-SM (switching module) nailups (ISMNAIL) used for packet transport between two SMs.</td>
<td>OP:LIST-ISMNAIL-A 5E12 - 5E15</td>
</tr>
<tr>
<td>Outputs a status list of all inter-switching module nailups (ISMNAIL) used for packet transport between two SMs.</td>
<td>OP:LIST-ISMNAIL-B 5E16(1) and later</td>
</tr>
<tr>
<td>Requests a display of all specified nail-up connections.</td>
<td>OP:NAILUP-A 5E12 only</td>
</tr>
<tr>
<td>Requests a display of all specified nail-up connections for a given SM, unit, facility, or equipment number.</td>
<td>OP:NAILUP-B 5E13 and later</td>
</tr>
<tr>
<td>Outputs the primary and history states of a single inter-switching module nailup (ISMNAIL), used for packet transport between two SMs.</td>
<td>OP:ST-ISMNAIL 5E12 and later</td>
</tr>
<tr>
<td>Outputs the inter-switching module timeslot (ISMTS) usage of inter-SM nailups (ISMNAIL) used for packet transport between two SMs.</td>
<td>OP:ST-ISMTS 5E12 and later</td>
</tr>
<tr>
<td>Removes an inter-switching module (SM) nailup (ISMNAIL), which is used to support packet transport between two SMs.</td>
<td>RMV:ISMNAIL 5E12 and later</td>
</tr>
<tr>
<td>Restores an inter-switching module (SM) nailup (ISMNAIL), which is used to support packet transport between two SMs.</td>
<td>RST:ISMNAIL 5E12 and later</td>
</tr>
<tr>
<td>Stops the output of the inter-switching module nailup (ISMNAIL) list or off-normal request, gracefully.</td>
<td>STP:ISMNAIL 5E12 and later</td>
</tr>
</tbody>
</table>

140. NETWORK CLOCK

<table>
<thead>
<tr>
<th>Topic/Purpose</th>
<th>Message ID/ Software Release Range</th>
</tr>
</thead>
<tbody>
<tr>
<td>Aborts a diagnostic procedure or exercise of the network clock (NC) on the specified office network and timing complex (ONTC).</td>
<td>ABT:NC 5E12 and later</td>
</tr>
<tr>
<td>Requests that the network clock (NC) in the specified office network and timing complex (ONTC) be diagnosed.</td>
<td>DGN:NC-A 5E12 - 5E14</td>
</tr>
<tr>
<td>Requests that the network clock (NC) in the specified office network and timing complex (ONTC) be diagnosed.</td>
<td>DGN:NC-B 5E15 and later</td>
</tr>
<tr>
<td>Requests a dump of the control and communication buffer, control link receiver/transmitter, and status of the network clock (NC).</td>
<td>DUMP:NC-A 5E12 - 5E14</td>
</tr>
<tr>
<td>Requests a dump of information related to the network clock model 2 (NC2) or model 3 (NC3).</td>
<td>DUMP:NC-B 5E15 and later</td>
</tr>
<tr>
<td>Requests that the network clock (NC) be exercised in an interactive mode.</td>
<td>EX:NC-A 5E12 - 5E14</td>
</tr>
<tr>
<td>Requests that the network clock (NC) be exercised in an interactive mode.</td>
<td>EX:NC-B 5E12 - 5E14</td>
</tr>
</tbody>
</table>
### 140.1 Network Clock Reference

<table>
<thead>
<tr>
<th>Topic/Purpose</th>
<th>Message ID/ Software Release Range</th>
</tr>
</thead>
<tbody>
<tr>
<td>Requests that the network clock (NC) of the office network and timing complex (ONTC) be set to a specific mode.</td>
<td>SET:NC-A 5E12 - 5E14</td>
</tr>
<tr>
<td>Requests that the network clock (NC) of the office network and timing complex (ONTC) be set to a specific mode.</td>
<td>SET:NC-B 5E15 and later</td>
</tr>
<tr>
<td>Requests that a diagnostic or exercise on the network clock (NC) on the specified office network and timing complex (ONTC) be stopped.</td>
<td>STP:NC 5E12 - 5E14</td>
</tr>
<tr>
<td>Requests that hardware error checks be allowed to be performed on a specified network clock reference (NCREF).</td>
<td>ALW:HDW-NCREF-A 5E12 - 5E14</td>
</tr>
<tr>
<td>Requests that hardware error checks be allowed to be performed on a specified network clock reference (NCREF).</td>
<td>ALW:HDW-NCREF-B 5E15 and later</td>
</tr>
<tr>
<td>Requests that hardware error checks be inhibited on the specified network clock reference (NCREF).</td>
<td>INH: HDW-NCREF-A 5E12 - 5E14</td>
</tr>
<tr>
<td>Requests that hardware error checks be inhibited on the specified network clock reference (NCREF).</td>
<td>INH:HDW-NCREF-B 5E15 and later</td>
</tr>
<tr>
<td>Requests that a network clock reference (NCREF) be removed from service.</td>
<td>RMV:NCREF-A 5E12 - 5E14</td>
</tr>
<tr>
<td>Requests that a network clock reference (NCREF) be removed from service.</td>
<td>RMV:NCREF-B 5E15 and later</td>
</tr>
<tr>
<td>Requests that a network clock reference (NCREF) be restored to service.</td>
<td>RST:NCREF-A 5E12 - 5E14</td>
</tr>
<tr>
<td>Requests that a network clock reference (NCREF) be restored to service.</td>
<td>RST:NCREF-B 5E15 and later</td>
</tr>
<tr>
<td>Requests that a network clock reference (NCREF) be switched to the specified clock reference source.</td>
<td>SW:NCREF-A 5E12 - 5E14</td>
</tr>
<tr>
<td>Requests that a network clock reference (NCREF) be switched to the specified clock reference source.</td>
<td>SW:NCREF-B 5E15 and later</td>
</tr>
</tbody>
</table>

### 140.2 Network Clock Oscillator

<table>
<thead>
<tr>
<th>Topic/Purpose</th>
<th>Message ID/ Software Release Range</th>
</tr>
</thead>
<tbody>
<tr>
<td>Requests that the forced (FRC) configuration on the network clock 2 oscillator (NCOSC) be cleared.</td>
<td>CLR:FRC-NCOSC-A 5E12 - 5E14</td>
</tr>
<tr>
<td>Clears the forced configurations on the network clock oscillator (NCOSC).</td>
<td>CLR:FRC-NCOSC-B 5E15 and later</td>
</tr>
<tr>
<td>Requests that a network clock 2 oscillator (NCOSC) be removed from service.</td>
<td>RMV:NCOSC-A 5E12 - 5E14</td>
</tr>
<tr>
<td>Requests that a network clock oscillator (NCOSC) be removed from service.</td>
<td>RMV:NCOSC-B 5E15 and later</td>
</tr>
<tr>
<td>Restores a network clock 2 oscillator (NCOSC) to service.</td>
<td>RST:NCOSC-A 5E12 - 5E14</td>
</tr>
<tr>
<td>Restores a network clock model 2 (NC2) or model 3 (NC3) oscillator (NCOSC) to service.</td>
<td>RST:NCOSC-B 5E15 and later</td>
</tr>
<tr>
<td>Requests that the forced (FRC) condition be set on the specified side of the network clock 2 oscillator (NCOSC) to be used as the timing base for the office.</td>
<td>SET:FRC-NCOSC-A 5E12 - 5E14</td>
</tr>
<tr>
<td>Requests that the forced (FRC) condition be set on the specified side of the network clock model 2 or 3 oscillator (NCOSC) to be used as the timing base for the office.</td>
<td>SET:FRC-NCOSC-B 5E15 and later</td>
</tr>
<tr>
<td>Requests that the network clock 2 oscillator (NCOSC) used to provide the time base signal be switched to the specified network clock side from the one currently in use to the other oscillator.</td>
<td>SW:NCOSC-A 5E12 - 5E14</td>
</tr>
<tr>
<td>Switches the active network clock oscillator (NCOSC) to the specified side.</td>
<td>SW:NCOSC-B 5E15 and later</td>
</tr>
</tbody>
</table>

### 140.3 Network Clock Oscillator Cross-Couple
### 141. NETWORK LINK INTERFACE

<table>
<thead>
<tr>
<th>Topic/Purpose</th>
<th>Message ID/ Software Release Range</th>
</tr>
</thead>
<tbody>
<tr>
<td>Aborts an action on a specific network link interface (NLI).</td>
<td>ABT:NLI 5E12 and later</td>
</tr>
<tr>
<td>Requests diagnosis of a specific network link interface (NLI) in a switching module (SM) on a specified office network and timing complex (ONTC) side, to determine if it is in satisfactory working order.</td>
<td>DGN:NLI 5E12 and later</td>
</tr>
<tr>
<td>Requests that the network link interface (NLI) be exercised in a switching module (SM) on the specified office network and timing complex (ONTC) side.</td>
<td>EX:NLI 5E12 and later</td>
</tr>
<tr>
<td>Requests a removal of a specific network link interface (NLI) from service.</td>
<td>RMV:NLI-A 5E12 - 5E16(1)</td>
</tr>
<tr>
<td>RMV:NLI-B 5E16(2) and later</td>
<td></td>
</tr>
<tr>
<td>Requests that a specific network link interface (NLI) be restored to service.</td>
<td>RST:NLI 5E12 and later</td>
</tr>
<tr>
<td>Requests that an action be stopped on a specific network link interface (NLI).</td>
<td>STP:NLI 5E12 and later</td>
</tr>
</tbody>
</table>

### 142. NETWORK MANAGEMENT

<table>
<thead>
<tr>
<th>Topic/Purpose</th>
<th>Message ID/ Software Release Range</th>
</tr>
</thead>
<tbody>
<tr>
<td>Requests that the printing of output messages stimulated by the remote network management center (RNMC) be allowed.</td>
<td>ALW:NMOUT-A 5E12 - 5E16(1)</td>
</tr>
<tr>
<td>Requests that the printing of output messages stimulated by the remote network management center (RNMC) be allowed.</td>
<td>ALW:NMOUT-B 5E16(2) and later</td>
</tr>
<tr>
<td>Requests that a destination specified by code and/or carrier be assigned to the manual hard-to-reach (MHTR) list.</td>
<td>ASGN:MHTR 5E16(2) and later</td>
</tr>
<tr>
<td>Requests that node identifiers be assigned to the network management node schedule (NMNODES) for the collection of five-minute node-to-node data.</td>
<td>ASGN:NMNODES 5E12 and later</td>
</tr>
<tr>
<td>Requests that trunk groups be assigned to the network management (NM) schedule (SCH).</td>
<td>ASGN:NMSCCH 5E12 and later</td>
</tr>
<tr>
<td>To execute the NMDATA specific audit to monitor the integrity of network management dynamic data.</td>
<td>AUD:NMMDATA 5E12 and later</td>
</tr>
<tr>
<td>Requests that node(s) be removed from the five-minute network management node schedule (NMNODES).</td>
<td>CLR:NMNODES 5E12 and later</td>
</tr>
<tr>
<td>Requests that trunk groups be removed from the network management (NM) schedule (SCH).</td>
<td>CLR:NMSCCH 5E12 and later</td>
</tr>
<tr>
<td>Requests that the printing of output messages stimulated by the remote network management center (RNMC) be inhibited.</td>
<td>INH:NMOUT-A 5E12 - 5E16(1)</td>
</tr>
<tr>
<td>Requests that the printing of output messages stimulated by the remote network management center (RNMC) be inhibited.</td>
<td>INH:NMOUT-B 5E16(2) and later</td>
</tr>
<tr>
<td>Requests a list of all nodes on the five-minute network management node schedule (NMNODES).</td>
<td>OP:NMNODES 5E12 and later</td>
</tr>
<tr>
<td>Requests a list of the current set of network management (NM) output message inhibits on the engineering and administrative data acquisition system (EADAS) stimulated output messages.</td>
<td>OP:NMOUT 5E12 and later</td>
</tr>
<tr>
<td>Requests a list of the current values on the Master Control Center (MCC) network</td>
<td>OP:NMPGE</td>
</tr>
<tr>
<td>Management (NM) Exception Page (NMPGE)</td>
<td>5E12 and later</td>
</tr>
<tr>
<td>---------------------------------------</td>
<td>---------------</td>
</tr>
<tr>
<td>Requests a list of all trunk groups on the network management (NM) trunk group schedule.</td>
<td>OP:NMSCH</td>
</tr>
<tr>
<td>Requests a list of all network management (NM) threshold (NMTHD) values for maintenance usage, connections per circuit per hour (CCH), and attempts per circuit per hour (ACH) for trunk group indicators in the TRUNK block.</td>
<td>OP:NMTND</td>
</tr>
<tr>
<td>Requests that the network management threshold (NMTHD) values be changed for a given type of trunk group indicator in the TRUNK block of the defense switched network network management (DSN NM) exception page (page 129).</td>
<td>SET:NMTND</td>
</tr>
<tr>
<td>Requests that further output from a previously requested network management OP input message be stopped.</td>
<td>STP:NMOP</td>
</tr>
</tbody>
</table>

### 143. NODE PROCESSOR MEMORY

<table>
<thead>
<tr>
<th>Topic/Purpose</th>
<th>Message ID/ Software Release Range</th>
</tr>
</thead>
<tbody>
<tr>
<td>Requests a report of the specified node processor (NP) memory or port locations, and sends the output to a file or to the ROP or both.</td>
<td>OP:NPMEM</td>
</tr>
</tbody>
</table>

### 144. NON-RESIDENT CALL TRACE LIST

<table>
<thead>
<tr>
<th>Topic/Purpose</th>
<th>Message ID/ Software Release Range</th>
</tr>
</thead>
<tbody>
<tr>
<td>Requests that the directory numbers on the calling line identification list (CLID) be printed.</td>
<td>OP:CLID</td>
</tr>
<tr>
<td>Requests that a directory number (DN) be added to or deleted from the calling line identification (CLID) list.</td>
<td>TRC:CLID</td>
</tr>
</tbody>
</table>

### 145. OFF-NORMAL STATUS

<table>
<thead>
<tr>
<th>Topic/Purpose</th>
<th>Message ID/ Software Release Range</th>
</tr>
</thead>
<tbody>
<tr>
<td>Outputs a report of off-normal inter-SM (switching module) naiups (ISMNAILs) used for packet transport between SMs.</td>
<td>OP:OFFNORM-IS</td>
</tr>
<tr>
<td>Requests a list of all off-normal primary rate interface (PRI) integrated services digital network (ISDN) D-channels.</td>
<td>OP:OFFNORM-PRI</td>
</tr>
<tr>
<td>Requests status for all offnormal quad-link packet switch protocol handler links (QPHLNKs) on a host global switching module (HOST GSM).</td>
<td>OP:OFFNORM-QPHN</td>
</tr>
<tr>
<td>Requests a list of all off-normal circuits in switching modules (SM).</td>
<td>OP:OFFNORM-SM</td>
</tr>
<tr>
<td>Requests a copy of the off-normal report as shown on the Master Control Center (MCC) display pages for system inhibits, administrative module (AM), communication module (CM), communication module processor (CMP), and switching module (SM) summarizing pages.</td>
<td>OP:SYSSSTAT-A</td>
</tr>
<tr>
<td>Requests a copy of the off-normal report as shown on the Master Control Center (MCC) display pages for system inhibits, administrative module (AM), communication module (CM), communication module processor (CMP), and switching module (SM) summarizing pages.</td>
<td>OP:SYSSSTAT-B</td>
</tr>
</tbody>
</table>

### 146. OFFICE DEPENDENT DATA

<table>
<thead>
<tr>
<th>Topic/Purpose</th>
<th>Message ID/ Software Release Range</th>
</tr>
</thead>
<tbody>
<tr>
<td>Requests that office-dependent data (ODD) backup be aborted.</td>
<td>ABT:ODDBKUP</td>
</tr>
<tr>
<td>Requests a backup of the office-dependent data (ODD) to disk.</td>
<td>BKUP:ODD</td>
</tr>
<tr>
<td>Clears the office-dependent data (ODD) backup schedule set by a previous BKUP:ODD message.</td>
<td>CLR:ODDBKUP</td>
</tr>
<tr>
<td>Requests an update of a switching module’s (SM) office-dependent data (ODD) to support stand-alone operation.</td>
<td>CNVT:STANDALONE</td>
</tr>
</tbody>
</table>
Requests that the office dependent data (ODD) recent change (RC) log file be copied from disk to magnetic tape.  
**COPY:LOG-TAPE**  
5E12 and later

Outputs all the ODD backup scheduled requests set by the previous BKUP:ODD messages.  
**OP: BKUPSTAT**  
5E12 and later

Requests a report of the office-dependent data (ODD) availability in the administrative module (AM), switching module(s) (SMs), and communication module processor CMP(s).  
**OP: ODD-AM-SM**  
5E12 and later

Requests a report of office dependent-data (ODD) warning information in the specified processors.  
**OP: ODDWARN**  
5E12 and later

Requests that uncommitted application recent changes be backed out.  
**SET: BACKOUT-A**  
5E12 - 5E13

Requests that uncommitted application recent changes be backed out.  
**SET: BACKOUT-B**  
5E14 and later

Perform maintenance actions on the static office-dependent data (ODD) proxy database.  
**ST: DBPROXY**  
5E15 and later

Requests that the relations RT_DNTRAN, RT_SPECRI, RTDN_MHG, and RTDNMPG be populated for new remote switching modules (RSMs).  
**ST: MODGRW-RSM**  
5E12 and later

Increases the size of physical memory allocated to the protected non-redundant database.  
**ST: NRODDGRW-A**  
5E12 - 5E16(1)

Increases the size of physical memory allocated to the protected non-redundant database.  
**ST: NRODDGRW-B**  
5E16(2) and later

Performs the blockid conversion for the redundant office-dependent data (RODD).  
**ST: ODDBST**  
5E12 and later

Requests that a new copy of office-dependent data (ODD) be created for a switching module (SM) that is being added to the switch.  
**ST: ODDCREAT-SM**  
5E12 and later

Requests that office-dependent data (ODD) files be removed from an switching module (SM) that is being removed from the office.  
**ST: ODDRSM-SM**  
5E12 and later

Requests initiative of an update of all multi-module remote switching module (MMRSM) site common office dependent data (ODD) in all RSMs which are members of the MMRSM site.  
**ST: ODDUPD**  
5E12 and later

Allocates physical memory to the redundant portion of office dependent data (RODD) for the purpose of growth, provided that there is physical memory available.  
**ST: RODDGRW**  
5E12 and later

Requests an increase in the size of physical memory allocated to the unprotected (dynamic) office-dependent data (ODD).  
**ST: UODDGRW-SM**  
5E12 - 5E16(1)

Requests a graceful stop of the currently printing port list.  
**STP: LIST**  
5E12 and later

Requests that the office dependent data (ODD) evolution or double logging process be stopped.  
**STP: ODDDEVOL**  
5E12 and later

Requests that the current switch on the unit specified be stopped.  
**STP: SW**  
5E12 and later

## 147. OFFICE NETWORK

### 147.1 Office Network and Timing Common Unit

<table>
<thead>
<tr>
<th>Topic/Purpose</th>
<th>Message ID/ Software Release Range</th>
</tr>
</thead>
<tbody>
<tr>
<td>Aborts an action on the specified office network and timing common units (ONTCCOM).</td>
<td><strong>ABT:ONTCCOM</strong> 5E12 and later</td>
</tr>
<tr>
<td>Requests that the specified office network and timing common units (ONTCCOM) be diagnosed.</td>
<td><strong>DGN:ONTCCOM-A</strong> 5E12 - 5E14</td>
</tr>
<tr>
<td>Requests that the specified office network and timing common (ONTCCOM) units be diagnosed.</td>
<td><strong>DGN:ONTCCOM-B</strong> 5E15 and later</td>
</tr>
<tr>
<td>Requests that an office network and timing complex common unit (ONTCCOM) be removed from service and placed in the &quot;out-of-service, manual removed&quot; (OOS MAN RMV) state.</td>
<td><strong>RMV:ONTCCOM</strong> 5E12 and later</td>
</tr>
<tr>
<td>Restores office network and timing complex common (ONTCCOM) units to an in-service condition.</td>
<td><strong>RST:ONTCCOM</strong> 5E12 and later</td>
</tr>
<tr>
<td>Requests that an action on the specified office network and timing complex common unit (ONTCCOM) be stopped.</td>
<td><strong>STP:ONTCCOM</strong> 5E12 and later</td>
</tr>
</tbody>
</table>

### 147.2 Office Network and Timer Coupler
### 148. OFFICE RECORDS

<table>
<thead>
<tr>
<th>Topic/Purpose</th>
<th>Message ID/Software Release Range</th>
</tr>
</thead>
<tbody>
<tr>
<td>Aborts a diagnostic or conditional restore request on the specified office network and timing complex (ONTC).</td>
<td>ABT:ONTC 5E12 and later</td>
</tr>
<tr>
<td>Requests diagnostics on an office network and timing complex (ONTC) to determine if it is in satisfactory working order.</td>
<td>DGN:ONTC-A 5E12 - 5E14</td>
</tr>
<tr>
<td>Requests diagnostics on an office network and timing complex (ONTC) to determine if it is in satisfactory working order.</td>
<td>DGN:ONTC-B 5E15 and later</td>
</tr>
<tr>
<td>Inhibits the hardware error checks from being performed on the specified office network and timing complex (ONTC).</td>
<td>INH:HDW-ONTC 5E12 and later</td>
</tr>
<tr>
<td>Requests that an office network and timing complex (ONTC) be removed from service.</td>
<td>RMV:ONTC 5E12 and later</td>
</tr>
<tr>
<td>Requests a restore of the office network and timing complex (ONTC) to an in service condition.</td>
<td>RST:ONTC 5E12 and later</td>
</tr>
<tr>
<td>Requests that an action on the specified office network and timing complex (ONTC) be stopped.</td>
<td>STP:ONTC 5E12 and later</td>
</tr>
<tr>
<td>Requests that the activity of the office network and timing complex (ONTC) be switched.</td>
<td>SW:ONTC 5E12 and later</td>
</tr>
</tbody>
</table>

### 149. OFFICE-TO-OFFICE TESTING

<table>
<thead>
<tr>
<th>Topic/Purpose</th>
<th>Message ID/Software Release Range</th>
</tr>
</thead>
<tbody>
<tr>
<td>Requests all current processing on the on-line office records report generator be aborted.</td>
<td>ABT:OFR 5E12 and later</td>
</tr>
<tr>
<td>Inputs all internal operating and scheduling parameters of the online office records control process.</td>
<td>IN:OFR-PARM 5E12 and later</td>
</tr>
<tr>
<td>Requests the printing of all categories or one category of office record forms.</td>
<td>OP:OFR-CAT 5E12 and later</td>
</tr>
<tr>
<td>Requests printing of an office record form.</td>
<td>OP:OFR-FORM-A 5E12 only</td>
</tr>
<tr>
<td>Requests printing of an office record form.</td>
<td>OP:OFR-FORM-B 5E13 only</td>
</tr>
<tr>
<td>Requests printing of an office record form.</td>
<td>OP:OFR-FORM-C 5E14 only</td>
</tr>
<tr>
<td>Requests printing of an office record form.</td>
<td>OP:OFR-FORM-D 5E15 and later</td>
</tr>
<tr>
<td>Requests a list of all output requests or all output requests of a specific type that are queued internally by the on-line office records capability and/or lists all the internal operating parameters of the on-line office records capability.</td>
<td>OP:OFR-STATUS 5E12 and later</td>
</tr>
<tr>
<td>Requests that any office records print message be stopped.</td>
<td>STP:OFR 5E12 and later</td>
</tr>
</tbody>
</table>

### 150. OFFLINE PUMP
### 151. OPERATING SYSTEM FOR DISTRIBUTED SWITCHING

#### 151.1 Monitor

<table>
<thead>
<tr>
<th>Topic/Purpose</th>
<th>Message ID/ Software Release Range</th>
</tr>
</thead>
<tbody>
<tr>
<td>Requests the Operating System for Distributed Switching (OSDS) monitor actions be allowed.</td>
<td>ALW:MON 5E12 and later</td>
</tr>
<tr>
<td>Requests that the specified Operating System for Distributed Switching (OSDS) monitor data collection areas be set to zero.</td>
<td>CLR:MON 5E12 and later</td>
</tr>
<tr>
<td>Requests that the control information of the monitor is output to the ROP or a file.</td>
<td>INH:MON 5E12 and later</td>
</tr>
<tr>
<td>Requests that the contents of the dispatch array area of the monitor buffer or the contents of the entire monitor buffer be output to the read-only printer (ROP) or a file.</td>
<td>OP:MON-DSP-A 5E12 - 5E14</td>
</tr>
<tr>
<td>Requests that the contents of the dispatch array area of the monitor buffer or the contents of the entire monitor buffer be output to the ROP or a file.</td>
<td>OP:MON-DSP-B 5E15 and later</td>
</tr>
<tr>
<td>Requests that the count/time data on a specific program ID or all program IDs, or output count/time data on the operating system be output to either the ROP or a file.</td>
<td>OP:MON-PID 5E12 and later</td>
</tr>
<tr>
<td>Requests that necessary flags and parameter values are set for the call identification (CID) interface to the operating system for distributed switching (OSDS) monitor.</td>
<td>SET:MON-CID 5E15 and later</td>
</tr>
<tr>
<td>Requests that the specific data for use with the operating system for distributed switching (OSDS) monitor be initialized.</td>
<td>SET:MON-DATA 5E12 and later</td>
</tr>
<tr>
<td>Requests that the special monitor action flags and/or the special monitor function execution flags be set.</td>
<td>SET:MON-FCN 5E12 and later</td>
</tr>
<tr>
<td>Requests that data words for the timed data dump feature or special function use be initialized.</td>
<td>SET:MON-SPEC 5E12 and later</td>
</tr>
<tr>
<td>Requests that the monitor control flags that select &quot;what to do&quot; actions or &quot;what to dump&quot; fields be set or cleared.</td>
<td>SET:MON-WTD 5E12 and later</td>
</tr>
<tr>
<td>Requests that any action in progress due to an OP:MON-CTL, OP:MON-PID or OP:MON-DSP input message be stopped.</td>
<td>STP:OP-MON 5E12 and later</td>
</tr>
</tbody>
</table>

### 152. OPERATOR SERVICES POSITION SYSTEM
### 152.1 Digital Subscriber Line

<table>
<thead>
<tr>
<th>Topic/Purpose</th>
<th>Message ID/ Software Release Range</th>
</tr>
</thead>
<tbody>
<tr>
<td>Requests a single process purge (SPP) and reinitialization of a terminal process in a switching module (SM) that controls the named Operator Services Position System (OSPS) digital subscriber line (DSL).</td>
<td>INIT:DSL 5E12 and later</td>
</tr>
<tr>
<td>To test the specified integrated service digital network (ISDN) basic rate interface (BRI) using digital, analog or metallic techniques [digital subscriber line (DSL) and BRI are used interchangeably in this message].</td>
<td>TST:DSL 5E12 and later</td>
</tr>
</tbody>
</table>

### 153. OPTICAL CARRIER LEVEL 3

<table>
<thead>
<tr>
<th>Topic/Purpose</th>
<th>Message ID/ Software Release Range</th>
</tr>
</thead>
<tbody>
<tr>
<td>Requests that the currently executing maintenance action on an optical carrier - level 3 (OC3) be aborted.</td>
<td>ABT:OC3 5E16(1) and later</td>
</tr>
<tr>
<td>Requests that the currently executing maintenance action on an optical carrier - level 3 concatenated (OC3C) facility be aborted.</td>
<td>ABT:OC3C 5E16(2) and later</td>
</tr>
<tr>
<td>Requests that the manually set automatic protection switch (APS) state of an optical carrier - level 3 (OC3) facility be cleared.</td>
<td>CLR:OC3 5E16(1) and later</td>
</tr>
<tr>
<td>Requests that the manually set automatic protection switch (APS) state of an optical carrier - level 3 concatenated (OC3C) facility be cleared.</td>
<td>CLR:OC3C 5E16(2) and later</td>
</tr>
<tr>
<td>Requests automatic protection switching (APS) status of optical carrier - level 3 (OC3) circuits for optical interface units (OIUs) in a switching module (SM) or a range of SMs.</td>
<td>OP:APSSTAT 5E16(1) and later</td>
</tr>
<tr>
<td>Requests that an optical carrier - level 3 (OC3) be restored to service.</td>
<td>RST:OC3 5E16(1) and later</td>
</tr>
<tr>
<td>Requests that an optical carrier - level 3 concatenated (OC3C) facility be restored to service.</td>
<td>RST:OC3C 5E16(2) and later</td>
</tr>
<tr>
<td>Requests that the automatic protection switch (APS) state of an optical carrier - level 3 (OC3) be set to a higher priority state.</td>
<td>SET:OC3 5E16(1) and later</td>
</tr>
<tr>
<td>Requests that the automatic protection switch (APS) state of an optical carrier - level 3 concatenated (OC3C) facility be set to a higher priority state.</td>
<td>SET:OC3C 5E16(2) and later</td>
</tr>
<tr>
<td>Requests that the currently executing maintenance action on an optical carrier - level 3 (OC3) be stopped.</td>
<td>STP:OC3 5E16(1) and later</td>
</tr>
<tr>
<td>Requests that the currently executing maintenance action on an optical carrier - level 3 concatenated (OC3C) facility be stopped.</td>
<td>STP:OC3C 5E16(2) and later</td>
</tr>
</tbody>
</table>

### 154. OPTICAL FACILITY INTERFACE

<table>
<thead>
<tr>
<th>Topic/Purpose</th>
<th>Message ID/ Software Release Range</th>
</tr>
</thead>
<tbody>
<tr>
<td>Requests that the currently executing maintenance action on an optical facility interface (OFI) be aborted.</td>
<td>ABT:OFI 5E16(1) and later</td>
</tr>
<tr>
<td>Requests that diagnostics be executed on an optical facility interface (OFI).</td>
<td>DGN:OFI 5E16(1) and later</td>
</tr>
<tr>
<td>Requests that the contents of one more sequential memory locations in the specified optical</td>
<td>DUMP:UT-OFI</td>
</tr>
</tbody>
</table>
### Facility Interface (OFI) be dumped.

Requests an unconditional call to a function using parameters in the specified optical facility interface (OFI) be executed.

- **EXC:UT-OFI**
  - 5E16(1) and later

Requests that hardware checks be inhibited on an optical facility interface (OFI).

- **INH:HDW-OFI**
  - 5E16(1) and later

Requests that a value(s) be loaded into the memory of the specified optical facility interface (OFI).

- **LOAD:UT-OFI**
  - 5E61 and later

Requests the output of the active user datagram protocol (UDP) ports for a specific optical facility interface unit (OIU) optical facility interface (OFI) protection group (PG).

- **OP:NETSTAT**
  - 5E16(2) and later

Requests that an optical carrier - level 3 (OC3) be removed from service either conditionally, by waiting for it to become idle, or unconditionally, by preempting the current user.

- **RMV:OC3**
  - 5E16(1) and later

Requests that an optical carrier - level 3 concatenated (OC3C) facility be removed from service either conditionally, by waiting for it to become idle, or unconditionally, by preempting the current user.

- **RMV:OC3C**
  - 5E16(2) and later

Requests that an optical facility interface (OFI) be restored to service.

- **RST:OFI**
  - 5E16(1) and later

Requests that the currently executing maintenance action on an optical facility interface (OFI) be stopped.

- **STP:OFI**
  - 5E16(1) and later

### Optical Interface Unit

<table>
<thead>
<tr>
<th>Topic/Purpose</th>
<th>Message ID/ Software Release Range</th>
</tr>
</thead>
<tbody>
<tr>
<td>Requests that the currently executing maintenance action on an optical interface unit (OIU) point to point protocol link (PPPLK) be aborted.</td>
<td><strong>ABT:PPPLK</strong> 5E16(2) and later</td>
</tr>
<tr>
<td>Requests the output of the active user datagram protocol (UDP) ports for a specific optical interface unit (OIU) optical facility interface (OFI) protection group (PG).</td>
<td><strong>OP:NETSTAT</strong> 5E16(2) and later</td>
</tr>
<tr>
<td>Requests output of the current day and previous day automatic protection switch count for optical interface unit (OIU) protection groups.</td>
<td><strong>OP:PSC</strong> 5E16(1) and later</td>
</tr>
<tr>
<td>Requests that an optical facility interface (OFI) be removed from service either conditionally, by waiting for it to become idle, or unconditionally, by preempting the current user.</td>
<td><strong>RMV:OFI</strong> 5E16(1) and later</td>
</tr>
<tr>
<td>Requests that an optical interface unit (OIU) point to point protocol link (PPPLK) be removed from service either conditionally, by waiting for it to become idle, or unconditionally, by preempting the current user.</td>
<td><strong>RMV:PPPLK</strong> 5E16(2) and later</td>
</tr>
<tr>
<td>Requests that an optical interface unit (OIU) point to point protocol link (PPPLK) be restored to service.</td>
<td><strong>RST:PPPLK</strong> 5E16(2) and later</td>
</tr>
<tr>
<td>Requests that the currently executing maintenance action on an optical interface unit (OIU) point to point protocol link (PPPLK) be stopped.</td>
<td><strong>STP:PPPLK</strong> 5E16(2) and later</td>
</tr>
</tbody>
</table>

### Originating Line Number Screening

<table>
<thead>
<tr>
<th>Topic/Purpose</th>
<th>Message ID/ Software Release Range</th>
</tr>
</thead>
<tbody>
<tr>
<td>Requests that a originating line number screening (OLNS) query be sent to the line information database (LIDB) to verify its operation.</td>
<td><strong>TST:OLNS</strong> 5E12 and later</td>
</tr>
</tbody>
</table>

### Out-of-Service Unit

<table>
<thead>
<tr>
<th>Topic/Purpose</th>
<th>Message ID/ Software Release Range</th>
</tr>
</thead>
<tbody>
<tr>
<td>Copies a specific file from an out-of-service (OOS) disk to an active system disk.</td>
<td><strong>COPY:OOSDISK</strong> 5E9(1) and later</td>
</tr>
<tr>
<td>Requests that the interprocess message switch (IMS) measurements inhibit flag be changed and displayed.</td>
<td><strong>INH:IMSMEA</strong> 5E12 and later</td>
</tr>
<tr>
<td>Requests a list of trunks, lines, data links, or Operator Services Position System ports (OSPSPORTs) that currently match the status specified in the request.</td>
<td><strong>OP:LIST-A</strong> 5E12 only</td>
</tr>
<tr>
<td>Requests a list of trunks, lines, data links, or operator services position system ports (OSPSPORTs) that currently match the status specified in the request.</td>
<td><strong>OP:LIST-B</strong> 5E13 - 5E14</td>
</tr>
<tr>
<td>Requests a list of trunks, lines, data links, or operator services position system ports (OSPSPORTs) that currently match the status specified in the request.</td>
<td><strong>OP:LIST-C</strong> 5E15 only</td>
</tr>
</tbody>
</table>
Requests a list of trunks, lines, data links, or operator services position system ports (OSPSPORTs) that currently match the status specified in the request. OP:LIST-D 5E16(1) and later

Requests a listing of the unassigned (UNA) lines, the integrated SLC® (ISLC) lines, and/or the integrated digital carrier unit (IDCU) lines within a specified range of directory numbers, SLC® line equipment numbers (SLENs), or IDCU line equipment numbers (ILENs). OP:LISTOTO 5E12 and later

Requests a list of all currently out-of-service (OOS) administrative module (AM) hardware units. OP:OOS 5E12 and later

Requests the removal of a data link from service by placing it in the specified out-of-service (OOS) status. RMV:DATALINK 5E12 and later

Requests that a line be removed from service by the addition of a specified out-of-service (OOS) status. RMV:LINE 5E12 and later

Requests the restoration of a data link to service by deletion of the specified out-of-service (OOS) status. RST:DATALINK 5E12 and later

Requests that a line be restored to service by deleting the specified out-of-service (OOS) condition. RST:LINE 5E12 and later

Requests that active printing tasks initiated by the OP:LISTOTO input message be stopped. STP:LISTOTO 5E12 and later

## 158. OUTPUT MESSAGE DATA BASE

<table>
<thead>
<tr>
<th>Topic/Purpose</th>
<th>Message ID/ Software Release Range</th>
</tr>
</thead>
<tbody>
<tr>
<td>Requests the actions be aborted on a network interface.</td>
<td>ABT:PAG 5E16(1) and later</td>
</tr>
<tr>
<td>Requests that the active (incore) output message database (OMDB) be refreshed from the OMDB disk file.</td>
<td>ACTV:OMDB 5E12 and later</td>
</tr>
<tr>
<td>Applies previous updates to the new copy of the output message database (OMDB) disk file during field update.</td>
<td>APPLY:OMDB 5E12 and later</td>
</tr>
<tr>
<td>Requests that the message text, message class, and alarm level from an OMDB entry be output for the given key or keys.</td>
<td>OP:OMDB 5E12 and later</td>
</tr>
<tr>
<td>Removes call processing from a network interface on a packet access gateway (PAG).</td>
<td>RMV:PAG 5E16(1) and later</td>
</tr>
<tr>
<td>Requests a conditional or unconditional removal of a quad-link packet switch (QLPS) from service.</td>
<td>RMV:QLPS-A 5E12 - 5E14</td>
</tr>
<tr>
<td>Requests a conditional or unconditional removal of a quad-link packet switch (QLPS) from service.</td>
<td>RMV:QLPS-B 5E15 and later</td>
</tr>
<tr>
<td>Restores call processing on a network interface on a packet access gateway (PAG).</td>
<td>RST:PAG 5E16(1) and later</td>
</tr>
<tr>
<td>Requests the actions be stopped on a network interface.</td>
<td>STP:PAG 5E16(1) and later</td>
</tr>
<tr>
<td>Requests that the message class or the alarm level for either one or a list of message keys in the output message data base (OMDB) disk file be updated.</td>
<td>UPD:OMDB 5E12 and later</td>
</tr>
</tbody>
</table>

## 159. OVERLOAD STATUS

<table>
<thead>
<tr>
<th>Topic/Purpose</th>
<th>Message ID/ Software Release Range</th>
</tr>
</thead>
<tbody>
<tr>
<td>Requests an overload status report.</td>
<td>OP:OVRLD-AM-SM-A 5E12 - 5E13</td>
</tr>
<tr>
<td>Requests an overload status report.</td>
<td>OP:OVRLD-AM-SM-B 5E14 and later</td>
</tr>
</tbody>
</table>

## 160. PACKET INTERFACE

<table>
<thead>
<tr>
<th>Topic/Purpose</th>
<th>Message ID/ Software Release Range</th>
</tr>
</thead>
<tbody>
<tr>
<td>Requests that generic utility WHEN clauses in the packet interface unit (PI) be allowed or enabled.</td>
<td>ALW:UT-MCTSI-PI 5E12 and later</td>
</tr>
<tr>
<td>Requests that one specific WHEN clause or all WHEN clauses from both the application</td>
<td>CLR:UT-MCTSI-PI</td>
</tr>
<tr>
<td>Topic/Purpose</td>
<td>Message ID/ Software Release Range</td>
</tr>
<tr>
<td>--------------</td>
<td>-----------------------------------</td>
</tr>
<tr>
<td>Program and the memory of the packet interface (PI) unit be removed.</td>
<td>5E12 and later</td>
</tr>
<tr>
<td>Requests that a value be copied into an address, register, global variable (specified by name or symbol index), or utility variable of the packet interface (PI) unit and optionally perform any of the following operations.</td>
<td>COPY:UT-MCTSI-PI 5E12 and later</td>
</tr>
<tr>
<td>Requests the conditional ELSE input message; which is used with the IF input message to perform any packet interface (PI) unit generic utility input messages following it, provided the IF input message comparison is not true (refer to the IF:UT-MCTSI-PI input message).</td>
<td>ELSE:UT-MCTSI-PI 5E12 and later</td>
</tr>
<tr>
<td>Requests that a series of packet interface unit (PI) generic utility input messages be ended.</td>
<td>END:UT-MCTSI-PI 5E12 and later</td>
</tr>
<tr>
<td>Requests the end of an IF-ELSE statement in the packet interface (PI) unit and must be used in combination with the IF:UT-MCTSI-PI input message.</td>
<td>IF:UT-MCTSI-PE 5E12 and later</td>
</tr>
<tr>
<td>Requests that a constant or variable in a packet interface (PI) unit memory be compared against another constant or variable in the PI memory.</td>
<td>IF:UT-MCTSI-PI 5E12 and later</td>
</tr>
<tr>
<td>Requests that a specific generic utility WHEN clause in the packet interface (PI) unit, or all such active clauses, be inhibited.</td>
<td>INH:UT-MCTSI-PI 5E12 and later</td>
</tr>
<tr>
<td>Requests a report on the status of one or all of the generic utilities WHEN clauses in the specified packet interface unit (PI).</td>
<td>OP:UT-MCTSI-PI 5E12 and later</td>
</tr>
<tr>
<td>Format 1 requests that a temporary generic utility WHEN breakpoint be defined using an address of an application program in the specified packet interface unit (PI).</td>
<td>WHEN:UT-MCTSI-PI 5E12 and later</td>
</tr>
</tbody>
</table>

### 161. PACKET INTERNET GROPER

<table>
<thead>
<tr>
<th>Topic/Purpose</th>
<th>Message ID/ Software Release Range</th>
</tr>
</thead>
<tbody>
<tr>
<td>The packet internet groper (PING) is used to verify a transmission control protocol/internet protocol (TCP/IP) connection between the source internet protocol (SRCIP) address and the internet protocol destination (IPDEST) address.</td>
<td>EXC:PING-A 5E14 - 5E16(1)</td>
</tr>
<tr>
<td>The packet internet groper (PING) is used to verify a transmission control protocol/internet protocol (TCP/IP) connection between the source internet protocol (SRCIP) address and the internet protocol destination (IPDEST) address.</td>
<td>EXC:PING-B 5E16(2) and later</td>
</tr>
</tbody>
</table>

### 162. PACKET SWITCH UNIT

<table>
<thead>
<tr>
<th>Topic/Purpose</th>
<th>Message ID/ Software Release Range</th>
</tr>
</thead>
<tbody>
<tr>
<td>Request that a packet switch unit (PSU) shelf side be removed from service.</td>
<td>RMV:PSUSHLF 5E12 only</td>
</tr>
<tr>
<td>Requests that the specified software fault be inserted into a packet switch unit (PSU) protocol handler (PH).</td>
<td>TST:PSUPH-FAULT-A 5E12 - 5E15</td>
</tr>
<tr>
<td>Requests that the specified software fault be inserted into a packet switch unit (PSU) protocol handler (PH).</td>
<td>TST:PSUPH-FAULT-B 5E16(1) and later</td>
</tr>
</tbody>
</table>

### 162.1 Packet Switch Unit Common Controller

<table>
<thead>
<tr>
<th>Topic/Purpose</th>
<th>Message ID/ Software Release Range</th>
</tr>
</thead>
<tbody>
<tr>
<td>To abort actions on either a packet switch unit (PSU), common controller (COM).</td>
<td>ABT:PSUCOM-A 5E12 - 5E15</td>
</tr>
<tr>
<td>To abort actions on either a packet switch unit (PSU) common controller (COM).</td>
<td>ABT:PSUCOM-B 5E16(1) and later</td>
</tr>
<tr>
<td>Allows hardware checks on a packet switch unit (PSU) common controller (COM).</td>
<td>ALW:HDW-PSUCOM-A 5E12 - 5E15</td>
</tr>
<tr>
<td>Allows hardware checks on a packet switch unit (PSU) common controller (COM).</td>
<td>ALW:HDW-PSUCOM-B 5E16(1) and later</td>
</tr>
<tr>
<td>Clears the forced condition from the packet switch unit (PSUCOM) specified.</td>
<td>CLR:PSUCOM-A 5E14 - 5E15</td>
</tr>
<tr>
<td>Clears the forced condition from the packet switch unit (PSUCOM) specified.</td>
<td>CLR:PSUCOM-B 5E16(1) and later</td>
</tr>
<tr>
<td>Requests that a packet switch unit (PSU) common (COM) controller be diagnosed.</td>
<td>DGN:PSUCOM-A 5E12 - 5E15</td>
</tr>
<tr>
<td>Topic/Purpose</td>
<td>Message ID/ Software Release Range</td>
</tr>
<tr>
<td>--------------</td>
<td>-----------------------------------</td>
</tr>
<tr>
<td><strong>Requests that a packet switch unit (PSU) common (COM) controller be diagnosed.</strong></td>
<td>DGN:PSUCOM-B 5E16(1) and later</td>
</tr>
<tr>
<td><strong>Exercises (interactively diagnoses) a packet switch unit (PSU) common controller (COM).</strong></td>
<td>EX:PSUCOM-A 5E12 - 5E15</td>
</tr>
<tr>
<td><strong>Exercises (interactively diagnoses) a packet switch unit (PSU) common controller (COM).</strong></td>
<td>EX:PSUCOM-B 5E16(1) and later</td>
</tr>
<tr>
<td><strong>Inhibits hardware checks on a packet switch unit (PSU) common controller (COM).</strong></td>
<td>INH:HDW-PSUCOM-A 5E12 - 5E15</td>
</tr>
<tr>
<td><strong>Inhibits hardware checks on a packet switch unit (PSU) common controller (COM).</strong></td>
<td>INH:HDW-PSUCOM-B 5E16(1) and later</td>
</tr>
<tr>
<td><strong>Requests that a packet switch unit (PSU) common controller (COM) be removed from service.</strong></td>
<td>RMV:PSU-A 5E12 - 5E15</td>
</tr>
<tr>
<td><strong>Requests that a packet switch unit (PSU) common controller (COM) be removed from service.</strong></td>
<td>RMV:PSUCOM-B 5E16(1) and later</td>
</tr>
<tr>
<td><strong>Requests that a packet switch unit common controller (PSUCOM) be restored to service.</strong></td>
<td>RST:PSUCOM-A 5E12 and later</td>
</tr>
<tr>
<td><strong>Requests that a packet switch unit common controller (PSUCOM) be restored to service.</strong></td>
<td>RST:PSUCOM-A 5E12(1) and later</td>
</tr>
<tr>
<td><strong>Requests that the specified side of the packet switch unit (PSUCOM) be forced to the active state.</strong></td>
<td>SET:PSUCOM-A 5E14 - 5E15</td>
</tr>
<tr>
<td><strong>Requests that the specified side of the packet switch unit (PSUCOM) be forced to the active state.</strong></td>
<td>SET:PSUCOM-B 5E16(1) and later</td>
</tr>
<tr>
<td><strong>Requests that actions on a packet switch unit (PSU) common controller (COM) be stopped.</strong></td>
<td>STP:PSUCOM-A 5E12 - 5E15</td>
</tr>
<tr>
<td><strong>Requests that actions on a common controller (COM) be stopped.</strong></td>
<td>STP:PSUCOM-B 5E16(1) and later</td>
</tr>
<tr>
<td><strong>Requests that the active/standby states of the packet switch unit (PSU) common controllers (COM) be switched (interchanged).</strong></td>
<td>SW:PSUCOM-A 5E12 and later</td>
</tr>
<tr>
<td><strong>Requests that the active/standby states of the packet switch unit (PSU) common controllers (COM) be switched (interchanged).</strong></td>
<td>SW:PSUCOM-B 5E16(1) and later</td>
</tr>
</tbody>
</table>

### 162.2 Packet Switch Unit Ethernet Link

<table>
<thead>
<tr>
<th>Topic/Purpose</th>
<th>Message ID/ Software Release Range</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Format 1 converts from a given ethernet link (PSELNK) to the associated protocol handlers for ethernet (PHE2) and the channel group associated to it.</strong></td>
<td>OP:CONV-PSELNK 5E16(1) and later</td>
</tr>
<tr>
<td><strong>An ethernet link is defined by the SM, PSU to which it is connected and link number.</strong></td>
<td>OP:ST-PSELNK 5E16(1) and later</td>
</tr>
</tbody>
</table>

### 162.3 Packet Switch Unit Link

<table>
<thead>
<tr>
<th>Topic/Purpose</th>
<th>Message ID/ Software Release Range</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Requests that the manually set automatic protection switch (APS) state of the packet switch unit (PSU) link (PSLNK) be cleared.</strong></td>
<td>CLR:PSLNK-A 5E12 - 5E15</td>
</tr>
<tr>
<td><strong>Requests that the manually set automatic protection switch (APS) state of the packet switch unit (PSU) link (PSLNK) be cleared.</strong></td>
<td>CLR:PSLNK-B 5E16(1) and later</td>
</tr>
<tr>
<td><strong>Convert from a given packet switch unit (PSU) link (PSLNK) to the associated protocol handlers (PHs) for asynchronous transfer mode (ATM) (PHAs) that service the individual channels of the PSU link.</strong></td>
<td>OP:CONV-PSLNK-A 5E12 - 5E15</td>
</tr>
<tr>
<td><strong>Convert from a given packet switch unit (PSU) link (PSLNK) to the associated protocol handlers (PHs) for asynchronous transfer mode (ATM) (PHAs) that service the individual channels of the PSU link.</strong></td>
<td>OP:CONV-PSLNK-B 5E16(1) only</td>
</tr>
<tr>
<td><strong>Convert from a given packet switch unit (PSU) link (PSLNK) to the associated protocol handlers (PHs) for asynchronous transfer mode (ATM) (PHAs) that service the individual channels of the PSU link.</strong></td>
<td>OP:CONV-PSLNK-C 5E16(2) and later</td>
</tr>
<tr>
<td><strong>Requests the output of the current link status and other information of a single packet switch unit (PSU) link (PSLNK); or the output of the current status of a group of PSU links.</strong></td>
<td>OP:ST-PSLNK-A 5E12 and later</td>
</tr>
<tr>
<td><strong>Requests the output of the current link status and other information of a single packet switch unit (PSU) link (PSLNK); or the output of the current status of a group of PSU links.</strong></td>
<td>OP:ST-PSLNK-B 5E16(1) and later</td>
</tr>
</tbody>
</table>
Requests that the automatic protection switch (APS) state of a packet switch unit (PSU) link (PSLNK) be set to a higher priority state.

**SET:** PSLNK-A

**Range:** 5E16(1) and later

Requests that the automatic protection switch (APS) state of a packet switch unit (PSU) link (PSLNK) be set to a higher priority state.

**SET:** PSLNK-B

**Range:** 5E16(1) and later

Request that the active/standby states of the packet switch unit (PSU) link (PSLNK) channels be switched.

**SW:** PSLNK-A

**Range:** 5E12 - 5E15

Request that the active/standby states of the packet switch unit (PSU) link (PSLNK) channels be switched.

**SW:** PSLNK-B

**Range:** 5E16(1) and later

Requests an asynchronous transfer mode (ATM) level loop back test between two end points of a packet switch unit (PSU) link (PSLNK) in a point-to-point network configuration (Formats 1 through 3) or between two end points of a virtual path in a point-to-multipoint ATM network (Formats 4 through 6).

**TST:** PSLNK-A

**Range:** 5E12 - 5E15

Requests an asynchronous transfer mode (ATM) level loop back test between two end points of a packet switch unit (PSU) link (PSLNK) in a point-to-point network configuration (Formats 1 through 3) or between two end points of a virtual path in a point-to-multipoint ATM network (Formats 4 through 6).

**TST:** PSLNK-B

**Range:** 5E16(1) and later

### 162.4 Packet Switch Unit Peripheral Interface Data Bus

<table>
<thead>
<tr>
<th>Topic/Purpose</th>
<th>Message ID/ Software Release Range</th>
</tr>
</thead>
<tbody>
<tr>
<td>Requests that a specified action on a packet switch unit (PSU) peripheral interface data bus (PIDB) be aborted.</td>
<td>ABT:PSUPIDB 5E12 and later</td>
</tr>
<tr>
<td>Requests that a packet switch unit (PSU) shelf peripheral interface data bus (PIDB) pair be removed from service.</td>
<td>RMV:PSUPIDB 5E12 and later</td>
</tr>
<tr>
<td>Requests that a packet switch unit (PSU) shelf peripheral interface data bus (PIDB) pair be restored to service.</td>
<td>RST:PSUPIDB 5E12 and later</td>
</tr>
<tr>
<td>Requests that actions on a packet switch unit (PSU) shelf peripheral interface data bus (PIDB) be stopped.</td>
<td>STP:PSUPIDB 5E12 and later</td>
</tr>
</tbody>
</table>

### 162.5 Packet Switch Unit Protocol Handler

<table>
<thead>
<tr>
<th>Topic/Purpose</th>
<th>Message ID/ Software Release Range</th>
</tr>
</thead>
<tbody>
<tr>
<td>To abort actions on either a packet switch unit (PSU) protocol handler (PH).</td>
<td>ABT:PSUPH-A 5E12 - 5E15</td>
</tr>
<tr>
<td>To abort actions on either a packet switch unit (PSU) protocol handler (PH).</td>
<td>ABT:PSUPH-B 5E16(1) and later</td>
</tr>
<tr>
<td>Allows hardware checks on a packet switch unit (PSU) protocol handler (PH).</td>
<td>ALW:HDW-PSUPH-A 5E12 - 5E15</td>
</tr>
<tr>
<td>Allows hardware checks on a packet switch unit (PSU) protocol handler (PH).</td>
<td>ALW:HDW-PSUPH-B 5E16(1) and later</td>
</tr>
<tr>
<td>Requests that generic utility WHEN breakpoint clauses in the packet switch unit protocol handler (PSUPH) be allowed or enabled.</td>
<td>ALW:UT-PSUPH-A 5E12 - 5E15</td>
</tr>
<tr>
<td>Requests that generic utility WHEN breakpoint clauses in the packet switch unit protocol handler (PSUPH) be allowed or enabled.</td>
<td>ALW:UT-PSUPH-B 5E16(1) and later</td>
</tr>
<tr>
<td>Requests that one specific WHEN clause or all WHEN clauses from both the application program and the memory of the packet switch unit protocol handler (PSUPH) be removed.</td>
<td>CLR:UT-PSUPH-A 5E12 - 5E15</td>
</tr>
<tr>
<td>Requests that one specific WHEN clause or all WHEN clauses from both the application program and the memory of the packet switch unit protocol handler (PSUPH) be removed.</td>
<td>CLR:UT-PSUPH-B 5E16(1) and later</td>
</tr>
<tr>
<td>Requests that a value be copied into an address, register, global variable (specified for name or symbol index), or utility variable of the packet switch unit protocol handler (PSUPH), and optionally perform specific operations.</td>
<td>COPY:UT-PSUPH-A 5E12 - 5E14</td>
</tr>
<tr>
<td>Requests that a value be copied into an address, register, global variable (specified for name or symbol index), or utility variable of the packet switch unit protocol handler (PSUPH), and optionally perform specific operations.</td>
<td>COPY:UT-PSUPH-B 5E15 only</td>
</tr>
<tr>
<td>Requests that a value be copied into an address, register, global variable (specified for name or symbol index), or utility variable of the packet switch unit protocol handler (PSUPH), and optionally perform specific operations.</td>
<td>COPY:UT-PSUPH-C 5E16(1) and later</td>
</tr>
</tbody>
</table>
Requests that a packet switch unit (PSU) protocol handler (PH) be diagnosed. DGN:PSUPH-A 5E12 - 5E15

Requests that a packet switch unit (PSU) protocol handler (PH) be diagnosed. DGN:PSUPH-B 5E16(1) and later

Requests that the contents of one more sequential memory locations in the specified packet switch unit protocol handler (PSUPH) be dumped. DUMP:UT-PSUPH-A 5E12 - 5E14

Requests that the contents of one more sequential memory locations in the specified packet switch unit protocol handler (PSUPH) be dumped. DUMP:UT-PSUPH-B 5E15 only

Requests that the contents of one more sequential memory locations in the specified packet switch unit protocol handler (PSUPH) be dumped. DUMP:UT-PSUPH-C 5E16(1) and later

Requests that a series of packet switch unit protocol handler (PSUPH) generic utility input messages be ended (Refer to the input messages listed in the REFERENCES section). END:UT-PSUPH-A 5E12 - 5E15

Requests that a series of packet switch unit protocol handler (PSUPH) generic utility input messages be ended. END:UT-PSUPH-B 5E16(1) and later

Exercises (interactively diagnoses) a packet switch unit (PSU) protocol handler (PH). EX:PSUPH-A 5E12 - 5E15

Exercises (interactively diagnoses) a packet switch unit (PSU) protocol handler (PH). EX:PSUPH-B 5E16(1) and later

Format 1 requests that an unconditional call to a function using parameters in the specified packet switch unit protocol handler (PSUPH) be executed. EXC:UT-PSUPH-A 5E12 - 5E14

Format 1 requests that an unconditional call to a function using parameters in the specified packet switch unit protocol handler (PSUPH) be executed. EXC:UT-PSUPH-B 5E15 only

Format 1 requests that an unconditional call to a function using parameters in the specified packet switch unit protocol handler (PSUPH) be executed. EXC:UT-PSUPH-C 5E16(1) and later

Requests that a constant or variable in a packet switch unit protocol handler’s (PSUPH) memory be compared against another constant or variable in the PSUPH memory. IF:UT-PSUPH-A 5E12 - 5E14

Requests that a constant or variable in a packet switch unit protocol handler’s (PSUPH) memory be compared against another constant or variable in the PSUPH memory. IF:UT-PSUPH-B 5E15 only

Requests that a constant or variable in a packet switch unit protocol handler’s (PSUPH) memory be compared against another constant or variable in the PSUPH memory. IF:UT-PSUPH-C 5E16(1) and later

Requests the end of an IF-ELSE statement in the packet switch unit protocol handler (PSUPH) and must be used in combination with the IF:UT-PSUPH input message. IF:UT-PSUPH-END-A 5E12 - 5E15

Requests the end of an IF-ELSE statement in the packet switch unit protocol handler (PSUPH) and must be used in combination with the IF:UT-PSUPH input message. IF:UT-PSUPH-END-B 5E16(1) and later

Inhibits hardware checks on a packet switch unit (PSU) protocol handler (PH). INH:HDW-PSUPH-A 5E12 - 5E15

Inhibits hardware checks on a packet switch unit (PSU) protocol handler (PH). INH:HDW-PSUPH-B 5E16(1) and later

Requests that a specific generic utility WHEN clause in the packet switch unit protocol handler (PSUPH), or all such active clauses, be inhibited. INH:UT-PSUPH-A 5E12 - 5E15

Requests that a specific generic utility WHEN clause in the packet switch unit protocol handler (PSUPH), or all such active clauses, be inhibited. INH:UT-PSUPH-B 5E16(1) and later

Requests that a value(s) be loaded into the memory of the specified packet switch unit protocol handler (PSUPH). LOAD:UT-PSUPH-A 5E12 - 5E15

Requests that a value(s) be loaded into the memory of the specified packet switch unit protocol handler (PSUPH). LOAD:UT-PSUPH-B 5E16(1) and later

Requests a report on the status of one or all of the generic utilities WHEN (breakpoint) clauses in the specified packet switch unit protocol handler (PSUPH). OP:UT-PSUPH-A 5E12 - 5E15

Requests a report on the status of one or all of the generic utilities WHEN (breakpoint) clauses in the specified packet switch unit protocol handler (PSUPH). OP:UT-PSUPH-B 5E16(1) and later

Requests that a packet switch unit (PSU) protocol handler (PH) be removed from service. RMV:PSUPH-A 5E12 - 5E15

Requests that a packet switch unit (PSU) protocol handler (PH) be removed from service. RMV:PSUPH-B 5E16(1) and later

Requests that a packet switch unit (PSU) protocol handler (PH) be restored to service. RST:PSUPH-A
Requests that a packet switch unit (PSU) protocol handler (PH) be restored to service.  
RST:PSUPH-B  
5E15

Requests that actions on a packet switch unit (PSU) protocol handler (PH) be stopped.  
STP:PSUPH-A  
5E12 - 5E15

Requests that actions on a packet switch unit (PSU) protocol handler (PH) be stopped.  
STP:PSUPH-B  
5E16(1) and later

Requests that the active/standby states of the packet switch unit (PSU) protocol handlers (PH) be switched.  
SW:PSUPH  
5E12 and later

Format 1 requests that a temporary generic utility WHEN breakpoint be defined using an address of an application program in the specified packet switch unit protocol handler (PSUPH).  
WHEN:UT-PSUPH-A  
5E12 - 5E14

Format 1 requests that a temporary generic utility WHEN breakpoint be defined using an address of an application program in the specified packet switch unit protocol handler (PSUPH).  
WHEN:UT-PSUPH-B  
5E15 only

Format 1 requests that a temporary generic utility WHEN breakpoint be defined using an address of an application program in the specified packet switch unit protocol handler (PSUPH).  
WHEN:UT-PSUPH-C  
5E16(1) and later

### 163. PARTITIONS

<table>
<thead>
<tr>
<th>Topic/Purpose</th>
<th>Message ID/ Software Release Range</th>
</tr>
</thead>
</table>
| Requests that partitions on a specified disk be cleared (initialized with zeroes). | CLR:PTN  
5E12 and later |
| Requests that one set of disk partitions be copied into a corresponding set of partitions. | COPY:PTN-ALL  
5E12 and later |
| Requests verification of office routing translations, used in call processing, from the originating line or trunk to the terminating line or trunk. | VFY:OFC-A  
5E12 - 5E13 |
| Requests verification of office routing translations, used in call processing, from the originating line or trunk to the terminating line or trunk. | VFY:OFC-B  
5E14 - 5E16(1) |
| Requests verification of office routing translations, used in call processing, from the originating line or trunk to the terminating line or trunk. | VFY:OFC-C  
5E16(2) and later |

### 164. PERIODIC PULSE METERING CIRCUIT

<table>
<thead>
<tr>
<th>Topic/Purpose</th>
<th>Message ID/ Software Release Range</th>
</tr>
</thead>
</table>
| Requests that a specified action on the periodic pulse metering circuit (PPMTC) be aborted. | ABT:PPMTC  
5E12 and later |

### 165. PERIODIC SIGNALING LINK TEST

<table>
<thead>
<tr>
<th>Topic/Purpose</th>
<th>Message ID/ Software Release Range</th>
</tr>
</thead>
</table>
| Requests the inhibit for the periodic signaling link test (PSLT). | INH:CCS-PSLT  
5E13 and later |

### 166. PERIPHERAL CONTROL AND TIMING

#### 166.1 Peripheral Control and Timing Date Exchanger

<table>
<thead>
<tr>
<th>Topic/Purpose</th>
<th>Message ID/ Software Release Range</th>
</tr>
</thead>
</table>
| Requests that actions be aborted on a peripheral control and timing data exchanger (PCTDX). | ABT:PCTDX  
5E14 and later |
| Allows hardware checks on a peripheral control and timing data exchanger (PCTDX). | ALW:HDW-PCTDX  
5E14 and later |
| Requests that diagnostics be executed on a peripheral control and timing data exchanger | DGN:PCTDX |
166.2 Peripheral Control and Timing Link

<table>
<thead>
<tr>
<th>Topic/Purpose</th>
<th>Message ID/Software Release Range</th>
</tr>
</thead>
<tbody>
<tr>
<td>Aborts the currently executing action on the peripheral control and timing (PCT) link.</td>
<td>ABT:PLTLK 5E15 and later</td>
</tr>
<tr>
<td>Requests that hardware checks be allowed on a peripheral control and timing (PCT) line and trunk unit link.</td>
<td>ALW:HDW-PLTLK 5E15 and later</td>
</tr>
<tr>
<td>Removes and diagnoses a specified peripheral control and timing (PCT) link.</td>
<td>DGN:PLTLK 5E15 and later</td>
</tr>
<tr>
<td>Requests that hardware checks be inhibited on a peripheral control and timing (PCT) line and trunk unit link.</td>
<td>INH:HDW-PLTLK 5E15 and later</td>
</tr>
<tr>
<td>Requests that a peripheral control and timing (PCT) line and trunk unit link be removed from service.</td>
<td>RMV:PLTLK 5E15 and later</td>
</tr>
<tr>
<td>Requests that a peripheral control and timing (PCT) line and trunk unit link (PLTLK) be restored to service.</td>
<td>RST:PLTLK 5E15 and later</td>
</tr>
<tr>
<td>Stops the currently executing action on a peripheral control and timing (PCT) line and trunk unit link.</td>
<td>STP:PLTLK 5E15 and later</td>
</tr>
<tr>
<td>Requests that the active/standby states of a peripheral control and timing facility interface (PCTFI) be switched (interchanged).</td>
<td>SW:PLTLK 5E15 and later</td>
</tr>
</tbody>
</table>

166.3 Peripheral Control and Timing Link Tributary

<table>
<thead>
<tr>
<th>Topic/Purpose</th>
<th>Message ID/Software Release Range</th>
</tr>
</thead>
<tbody>
<tr>
<td>Requests that maintenance actions be aborted on a peripheral control and timing (PCT) link tributary.</td>
<td>ABT:TRIB 5E15 and later</td>
</tr>
<tr>
<td>Removes a peripheral control and timing (PCT) link tributary (TRIB) from service either conditionally (by waiting for it to become idle), or unconditionally, by pre-empting the current user.</td>
<td>RMV:TRIB 5E15 and later</td>
</tr>
<tr>
<td>Requests that a peripheral control and timing (PCT) link tributary (TRIB) is restored to service.</td>
<td>RST:TRIB 5E15 and later</td>
</tr>
<tr>
<td>Requests that maintenance actions be stopped on a peripheral control and timing (PCT) line and trunk unit link tributary (TRIB).</td>
<td>STP:TRIB 5E15 and later</td>
</tr>
</tbody>
</table>

167. PLANT MEASUREMENTS COMMON REPORT

<table>
<thead>
<tr>
<th>Topic/Purpose</th>
<th>Message ID/Software Release Range</th>
</tr>
</thead>
<tbody>
<tr>
<td>Requests the various plant measurements common reports, detailing system performance statistics.</td>
<td>OP:PMCR 5E12 and later</td>
</tr>
</tbody>
</table>

168. PLANT REPORT - 24 HOUR

<table>
<thead>
<tr>
<th>Topic/Purpose</th>
<th>Message ID/Software Release Range</th>
</tr>
</thead>
<tbody>
<tr>
<td>Requests that the printing of the regularly scheduled 24-hour plant report to the ROP be allowed.</td>
<td>ALW:PLNT24 5E12 and later</td>
</tr>
<tr>
<td>Requests that the printing of the hourly plant report be allowed.</td>
<td>ALW:PLNTHR 5E12 and later</td>
</tr>
</tbody>
</table>
Requests that the regularly scheduled 24-hour plant report be inhibited from printing to the ROP.

Requests that the printing of the hourly plant report be inhibited.

Requests the last complete hourly plant report.

Requests that the monthly plant report be obtained at a time other than the regularly scheduled time.

Requests the status (inhibited or allowed) of the hourly plant report.

**169. PORTS**

<table>
<thead>
<tr>
<th>Topic/Purpose</th>
<th>Message ID/ Software Release Range</th>
</tr>
</thead>
<tbody>
<tr>
<td>Requests the output of the print mode, overload status, and initialization summary information for the specified packet interface (PI) of the module controller time slot interchanger (MCTSI) or packet switching unit protocol handler (PSUPH).</td>
<td>OP:ST 5E12 and later</td>
</tr>
<tr>
<td>Requests the status of each connected administrative module (AM) message port.</td>
<td>OP:ST-PORTS 5E12 and later</td>
</tr>
<tr>
<td>Requests that all port camp-on activity be stopped.</td>
<td>STP:CAMP 5E12 and later</td>
</tr>
<tr>
<td>Requests a switch of the maintenance teletypewriter controller’s (MTTYC’s) ROP and/or maintenance teletypewriter (MTTY) to the alternate MTTYC and a switch of the active/standby status of the MTTY and/or ROP.</td>
<td>SW:PORTSW 5E12 and later</td>
</tr>
</tbody>
</table>

**170. POSTMORTEM**

<table>
<thead>
<tr>
<th>Topic/Purpose</th>
<th>Message ID/ Software Release Range</th>
</tr>
</thead>
<tbody>
<tr>
<td>Requests a list of active protocol monitoring (PM) sessions.</td>
<td>OP:PM 5E12 and later</td>
</tr>
<tr>
<td>Requests the output of the port processor’s (PP’s) postmortem reports saved in the specified module controller time slot interchanger (MCTSI).</td>
<td>OP:PM-PP-MCTSI 5E12 and later</td>
</tr>
<tr>
<td>Requests a copy of the specified postmortems from the specified switching module (SM).</td>
<td>OP:PM-SM 5E12 and later</td>
</tr>
<tr>
<td>Requests a copy of the postmortem for the digital networking unit - synchronous optical network (DNU-S) common controller (DNUSCC), the integrated digital carrier unit (IDCU), the integrated service line unit common controller (ISLUCC) or the transmission multiplexer (TMUX).</td>
<td>OP:POSTMORT-A 5E12 - 5E16(1)</td>
</tr>
<tr>
<td>Requests a copy of the postmortem for the digital networking unit - synchronous optical network (DNU-S) common controller (DNUSCC), the integrated digital carrier unit (IDCU), the integrated service line unit common controller (ISLUCC), the transmission multiplexer (TMUX) or the Optical Facility Interface (OFI).</td>
<td>OP:POSTMORT-B 5E16(2) and later</td>
</tr>
<tr>
<td>Requests a copy of the postmortem for the communication module processor (CMP).</td>
<td>OP:POSTMORT-CMP 5E12 and later</td>
</tr>
<tr>
<td>Requests the release (unlocking) of the port processor’s (PP’s) postmortem report save area of the specified module controller time slot interchanger (MCTSI) to allow the capture of the next autonomous packet switching unit protocol handler (PSUPH) or packet interface (PI) initialization postmortem reports.</td>
<td>RLS:PM-PP-MCTSI 5E12 and later</td>
</tr>
<tr>
<td>Releases the postmortem save area.</td>
<td>RLS:POSTMORT 5E12 and later</td>
</tr>
<tr>
<td>Requests the release of the postmortem save area.</td>
<td>RLS:POSTMORT 5E12 and later</td>
</tr>
<tr>
<td>Requests that a specific integrated services digital network (ISDN) channel protocol monitoring (PM) session or all protocol monitoring sessions be stopped.</td>
<td>STP:PM-A 5E12 - 5E15</td>
</tr>
<tr>
<td>Requests that a specific integrated services digital network (ISDN) channel protocol monitoring (PM) session or all protocol monitoring sessions be stopped.</td>
<td>STP:PM-B 5E16(1) and later</td>
</tr>
<tr>
<td>Requests a change of the print mode of the specified packet interface (PI) and/or packet</td>
<td>CHG:PRNTMODE-A</td>
</tr>
</tbody>
</table>
### 171. PROCESSES

<table>
<thead>
<tr>
<th>Topic/Purpose</th>
<th>Message ID/ Software Release Range</th>
</tr>
</thead>
<tbody>
<tr>
<td>Requests a task be executed as either a kernel or supervisor process.</td>
<td>EXC:ENVIR-PROC 5E12 and later</td>
</tr>
<tr>
<td>Requests a task be executed as a user process.</td>
<td>EXC:ENVIR-UPROC 5E12 and later</td>
</tr>
<tr>
<td>Requests a report of the size of a relation residing on an operational processor or range of processors.</td>
<td>OP:RELSPACE 5E12 and later</td>
</tr>
<tr>
<td>Requests the status of active processes by specific class.</td>
<td>OP:ST-PROC 5E12 and later</td>
</tr>
<tr>
<td>Requests that any specified process be stopped.</td>
<td>STOP:EXC-ANY 5E12 and later</td>
</tr>
<tr>
<td>Requests that a user process specified either by ID number or by pathname be stopped.</td>
<td>STOP:EXC-USER 5E12 and later</td>
</tr>
<tr>
<td>Requests that any process be stopped.</td>
<td>STP:EXC-ANY 5E12 and later</td>
</tr>
<tr>
<td>Requests that a user process specified either by ID number or by pathname be stopped.</td>
<td>STP:EXC-USER 5E12 and later</td>
</tr>
</tbody>
</table>

### 172. PROTOCOL

#### 172.1 Protocol Circuit

<table>
<thead>
<tr>
<th>Topic/Purpose</th>
<th>Message ID/ Software Release Range</th>
</tr>
</thead>
<tbody>
<tr>
<td>Requests the monitoring of a particular level 2 or level 3 or level 7 protocol on a given interface terminating on the switch provided the protocol stack to be monitored is supported on the interface.</td>
<td>EXC:PM-A 5E12 only</td>
</tr>
<tr>
<td>Requests the monitoring of a particular level 2 or level 3 or level 7 protocol on a given interface terminating on the switch provided the protocol stack to be monitored is supported on the interface.</td>
<td>EXC:PM-B 5E13 and later</td>
</tr>
<tr>
<td>Requests the monitoring of a particular level 2 or level 3 or level 7 protocol on a given interface terminating on the switch provided the protocol stack to be monitored is supported on the interface.</td>
<td>EXC:PM-C 5E13 - 5E14</td>
</tr>
<tr>
<td>Requests the monitoring of a particular level 2 or level 3 or level 7 protocol on a given interface terminating on the switch provided the protocol stack to be monitored is supported on the interface.</td>
<td>EXC:PM-D 5E15 only</td>
</tr>
<tr>
<td>Requests the monitoring of a particular level 2 or level 3 or level 7 protocol on a given interface terminating on the switch provided the protocol stack to be monitored is supported on the interface.</td>
<td>EXC:PM-E 5E16(1) and later</td>
</tr>
</tbody>
</table>

#### 172.2 Protocol Monitoring
### 173. PUMP PERIPHERAL CONTROLLER

<table>
<thead>
<tr>
<th>Topic/Purpose</th>
<th>Message ID/Software Release Range</th>
</tr>
</thead>
<tbody>
<tr>
<td>Aborts actions on the specified pump peripheral controller (PPC).</td>
<td>ABT:PPC 5E12 and later</td>
</tr>
<tr>
<td>Requests that hardware error checks be allowed to be performed on the specified pump peripheral controller (PPC).</td>
<td>ALW:HDW-PPC 5E12 and later</td>
</tr>
<tr>
<td>Requests diagnostics on a pump peripheral controller (PPC) to determine if it is in satisfactory working order.</td>
<td>DGN:PPC 5E12 and later</td>
</tr>
<tr>
<td>Requests that the contents of one or more sequential memory locations in the specified pump peripheral controller (PPC) be dumped.</td>
<td>DUMP:UT-PPC-A 5E12 - 5E14</td>
</tr>
<tr>
<td>Requests that the contents of one or more sequential memory locations in the specified pump peripheral controller (PPC) be dumped.</td>
<td>DUMP:UT-PPC-B 5E15 and later</td>
</tr>
<tr>
<td>Requests that the pump peripheral controller (PPC) be exercised in an interactive mode.</td>
<td>EX:PPC 5E12 and later</td>
</tr>
<tr>
<td>Requests that an unconditional call to a function using parameters in the specified pump peripheral controller (PPC) be executed.</td>
<td>EXC:UT-PPC-A 5E12 - 5E14</td>
</tr>
<tr>
<td>Requests that an unconditional call to a function using parameters in the specified pump peripheral controller (PPC) be executed.</td>
<td>EXC:UT-PPC-B 5E15 and later</td>
</tr>
<tr>
<td>Inhibits the hardware error checks performed on the specified pump peripheral controller (PPC).</td>
<td>INH:HDW-PPC 5E12 and later</td>
</tr>
<tr>
<td>Requests that a value be loaded into the memory of the specified pump peripheral controller (PPC).</td>
<td>LOAD:UT-PPC-A 5E12 - 5E14</td>
</tr>
<tr>
<td>Requests that a value be loaded into the memory of the specified pump peripheral controller (PPC).</td>
<td>LOAD:UT-PPC-B 5E15 and later</td>
</tr>
<tr>
<td>Requests that the specified pump peripheral controller (PPC) be removed from service.</td>
<td>RMV:PPC 5E12 and later</td>
</tr>
<tr>
<td>Restores the specified pump peripheral controller (PPC) to service.</td>
<td>RST:PPC 5E12 and later</td>
</tr>
<tr>
<td>Requests that actions on the specified pump peripheral controller (PPC) be stopped.</td>
<td>STP:PPC 5E12 and later</td>
</tr>
<tr>
<td>Requests that the activity of the pump peripheral controller (PPC) be switched.</td>
<td>SW:PPC 5E12 and later</td>
</tr>
</tbody>
</table>

### 174. QUAD-LINK PACKET SWITCH

<table>
<thead>
<tr>
<th>Topic/Purpose</th>
<th>Message ID/Software Release Range</th>
</tr>
</thead>
<tbody>
<tr>
<td>Requests that actions on a quad-link packet switch (QLPS) be aborted.</td>
<td>ABT:QLPS 5E12 and later</td>
</tr>
<tr>
<td>Requests diagnosis of a quad-link packet switch (QLPS) to determine whether it is in satisfactory working order.</td>
<td>DGN:QLPS-A 5E12 - 5E14</td>
</tr>
<tr>
<td>Requests diagnosis of a quad-link packet switch (QLPS) to determine whether it is in satisfactory working order.</td>
<td>DGN:QLPS-B 5E15 and later</td>
</tr>
<tr>
<td>Requests interactive diagnosis of a quad-link packet switch (QLPS).</td>
<td>EX:QLPS-A 5E12 - 5E14</td>
</tr>
<tr>
<td>Requests interactive diagnosis of a quad-link packet switch (QLPS).</td>
<td>EX:QLPS-B 5E15 and later</td>
</tr>
<tr>
<td>Topic/Purpose</td>
<td>Message ID/ Software Release Range</td>
</tr>
<tr>
<td>--------------</td>
<td>-----------------------------------</td>
</tr>
<tr>
<td>Requests a report of the status of quad-link packet switch (QLPS) pipes (QPIPEs), QLPS communication links (QLNKs), and inter-switching module QLNKs (ISMQLNKs) and, optionally, the supporting communication module (CM) hardware.</td>
<td>OP:QNETSTAT 5E12 and later</td>
</tr>
<tr>
<td>Request a conditional or unconditional restore of a quad-link packet switch (QLPS) to the standby state.</td>
<td>RST:QLPS 5E12 and later</td>
</tr>
<tr>
<td>Requests that actions on a quad-link packet switch (QLPS) be stopped (STP).</td>
<td>STP:QLPS 5E12 - 5E14</td>
</tr>
<tr>
<td>Requests activation of a standby quad-link packet switch (QLPS) processor.</td>
<td>SW:QLPS 5E12 and later</td>
</tr>
</tbody>
</table>

### 174.1 Quad-Link Packet Switch Protocol Handler

<table>
<thead>
<tr>
<th>Topic/Purpose</th>
<th>Message ID/ Software Release Range</th>
</tr>
</thead>
<tbody>
<tr>
<td>Requests that a quad-link packet switch protocol handler (QPH) QPIPE be removed from service unconditionally.</td>
<td>RMV:QPHPIPE 5E15 and later</td>
</tr>
<tr>
<td>Requests that a quad-link packet switch protocol handler (QPH) QPIPE be restored to service.</td>
<td>RST:QPHPIPE 5E15 and later</td>
</tr>
</tbody>
</table>

### 174.2 Quad-Link Packet Switch Gateway Processor

<table>
<thead>
<tr>
<th>Topic/Purpose</th>
<th>Message ID/ Software Release Range</th>
</tr>
</thead>
<tbody>
<tr>
<td>Requests that actions on a quad-link packet switch (QLPS) gateway processor (QGP) be aborted.</td>
<td>ABT:QGP 5E12 and later</td>
</tr>
<tr>
<td>Requests that hardware error checks be allowed to be performed on the specified quad-link packet switch gateway processor (QGP).</td>
<td>ALW:HDW-QGP 5E12 and later</td>
</tr>
<tr>
<td>Requests diagnosis of a quad-link packet switch (QLPS) gateway processor (QGP) to determine whether it is in satisfactory working order.</td>
<td>DGN:QGP 5E12 and later</td>
</tr>
<tr>
<td>Requests that the contents of one or more sequential memory locations in the specified quad-link packet switch (QLPS) gateway processor (QGP) be dumped.</td>
<td>DUMP:UT-QGP-A 5E12 - 5E14</td>
</tr>
<tr>
<td>Requests that the contents of one or more sequential memory locations in the specified quad-link packet switch (QLPS) gateway processor (QGP) be dumped.</td>
<td>DUMP:UT-QGP-B 5E15 and later</td>
</tr>
<tr>
<td>Requests interactive diagnosis of a quad-link packet switch (QLPS) gateway processor (QGP).</td>
<td>EX:QGP 5E12 and later</td>
</tr>
<tr>
<td>Requests an unconditional call to a function using parameters in the specified quad-link packet switch (QLPS) gateway processor (QGP) be executed.</td>
<td>EXC:UT-QGP-A 5E12 - 5E14</td>
</tr>
<tr>
<td>Requests an unconditional call to a function using parameters in the specified quad-link packet switch (QLPS) gateway processor (QGP) be executed.</td>
<td>EXC:UT-QGP-B 5E15 and later</td>
</tr>
<tr>
<td>Requests that the hardware checks on the specified quad-link packet switch gateway processor (QGP) be inhibited.</td>
<td>INH:HDW-QGP 5E12 and later</td>
</tr>
<tr>
<td>Requests that a value(s) be loaded into the memory of the specified quad-link packet switch (QLPS) gateway processor (QGP).</td>
<td>LOAD:UT-QGP-A 5E12 - 5E14</td>
</tr>
<tr>
<td>Requests that a value(s) be loaded into the memory of the specified quad-link packet switch (QLPS) gateway processor (QGP).</td>
<td>LOAD:UT-QGP-B 5E15 and later</td>
</tr>
<tr>
<td>Requests a conditional or unconditional removal of a quad-link packet switch (QLPS) gateway processor (QGP) from service.</td>
<td>RMV:QGP 5E12 and later</td>
</tr>
<tr>
<td>Request a conditional or unconditional restore of a quad-link packet switch (QLPS) gateway processor (QGP) to the active state.</td>
<td>RST:QGP 5E12 and later</td>
</tr>
<tr>
<td>Requests that actions on a quad-link packet switch (QLPS) gateway processor (QGP) be stopped.</td>
<td>STP:QGP 5E12 and later</td>
</tr>
</tbody>
</table>

### 174.3 Quad-Link Packet Switch Gateway Processor Link

<table>
<thead>
<tr>
<th>Topic/Purpose</th>
<th>Message ID/ Software Release Range</th>
</tr>
</thead>
<tbody>
<tr>
<td>Requests an unconditional restore of a quad-link packet switch (QLPS) gateway processor link (QGL).</td>
<td>RST:QGL 5E12 and later</td>
</tr>
</tbody>
</table>
### 174.4 Quad-Link Packet Switch Time Multiplexed Switch Link

<table>
<thead>
<tr>
<th>Topic/Purpose</th>
<th>Message ID/ Software Release Range</th>
</tr>
</thead>
<tbody>
<tr>
<td>Requests a unconditional restore of a quad-link packet switch (QLPS) time multiplexed switch link (QTMSLNK) to the active state.</td>
<td>RST:QTMSLNK 5E12 and later</td>
</tr>
</tbody>
</table>

### 175. RADIO PORT CONTROLLER UNIT

<table>
<thead>
<tr>
<th>Topic/Purpose</th>
<th>Message ID/ Software Release Range</th>
</tr>
</thead>
<tbody>
<tr>
<td>Requests a list of alarmed radio port controller units (RPCUs) and their alarm levels.</td>
<td>OP:RPCU 5E12 and later</td>
</tr>
<tr>
<td>Requests that the printing of alarmed radio port controller units (RPCUs) by an OP:RPCU input message be stopped.</td>
<td>STP:RPCU 5E12 and later</td>
</tr>
</tbody>
</table>

### 176. REAL TIME BILLING MEMORY

<table>
<thead>
<tr>
<th>Topic/Purpose</th>
<th>Message ID/ Software Release Range</th>
</tr>
</thead>
<tbody>
<tr>
<td>Requests that the size of the real time billing memory (RTBM) on switching modules (SM's) be configured.</td>
<td>CFR:RTBM 5E12 and later</td>
</tr>
<tr>
<td>Requests verification of the amount of real time billing memory (RTBM) and the amount currently in use.</td>
<td>VFY:RTBM 5E12 and later</td>
</tr>
</tbody>
</table>

### 177. REAL TIME CALL DETAIL

<table>
<thead>
<tr>
<th>Topic/Purpose</th>
<th>Message ID/ Software Release Range</th>
</tr>
</thead>
<tbody>
<tr>
<td>Requests a printout of the global billing switching module (SM) number and the status of the real time call detail (RTCD) office option.</td>
<td>OP:RTCD 5E12 and later</td>
</tr>
</tbody>
</table>

### 178. RECEIVE-ONLY PRINTER

<table>
<thead>
<tr>
<th>Topic/Purpose</th>
<th>Message ID/ Software Release Range</th>
</tr>
</thead>
<tbody>
<tr>
<td>Requests that the specified ROP be removed from service.</td>
<td>RMV:ROP 5E12 and later</td>
</tr>
<tr>
<td>Restores the specified read-only printer (ROP) to service.</td>
<td>RST:ROP 5E12 and later</td>
</tr>
</tbody>
</table>

### 179. RECENT CHANGE

<table>
<thead>
<tr>
<th>Topic/Purpose</th>
<th>Message ID/ Software Release Range</th>
</tr>
</thead>
<tbody>
<tr>
<td>Requests that customer-originated recent changes (CORCs) be allowed into the system if they were previously inhibited.</td>
<td>ALW:CORC 5E12 and later</td>
</tr>
<tr>
<td>To enable the logging of customer-originated recent changes for one or more switching modules (SMs).</td>
<td>ALW:CORCLOG-SM 5E12 and later</td>
</tr>
<tr>
<td>Requests that office-dependent data (ODD) recent changes (RCs) be allowed into the system if they were previously inhibited.</td>
<td>ALW:RC 5E12 and later</td>
</tr>
<tr>
<td>Requests that telephone activations of recent change delayed messages (RCDMs) be allowed in the system if they were previously inhibited.</td>
<td>ALW:RCDLY 5E12 and later</td>
</tr>
<tr>
<td>Requests that logging of recent changes be allowed for all processors.</td>
<td>ALW:RCLOG 5E12 and later</td>
</tr>
<tr>
<td>Requests that customer-originated recent change (CORC) logfiles be evolved (converted) and reapplied.</td>
<td>CNVT:CORCLOG 5E12 and later</td>
</tr>
<tr>
<td>Requests that recent change (RC) logfiles be Evolved (converted) to a format compatible with the target software release.</td>
<td>CNVT:RCDLOG 5E12 and later</td>
</tr>
<tr>
<td>Category</td>
<td>Command</td>
</tr>
<tr>
<td>----------------------------------</td>
<td>-----------------</td>
</tr>
<tr>
<td>Requests reapplication of customer-originated and/or regular recent changes (RCs) from the disk log.</td>
<td>EXC:ODDRCVY</td>
</tr>
<tr>
<td>Requests the execution of the recent change (RC) or customer originated recent change (CORC) log file decoder</td>
<td>EXC:RCDECODE</td>
</tr>
<tr>
<td>Requests that all recent changes (RCs) previously entered into the delayed release clerk file(s) be released.</td>
<td>EXC:RCRLS</td>
</tr>
<tr>
<td>Removes selected recent changes previously entered into the delayed release clerk file.</td>
<td>EXC:RCRMV</td>
</tr>
<tr>
<td>Requests that all customer-originated recent changes (CORC) be inhibited.</td>
<td>INH:CORC</td>
</tr>
<tr>
<td>Inhibits the logging of customer-originated recent changes for one or more switching modules (SMs).</td>
<td>INH:CORCLOG-SM</td>
</tr>
<tr>
<td>Requests that all office-dependent data (ODD) recent change (RC) activity be inhibited.</td>
<td>INH:RC</td>
</tr>
<tr>
<td>Requests that all telephone activations of recent change delayed messages (RCDMs) be inhibited in the system.</td>
<td>INH:RCDLY</td>
</tr>
<tr>
<td>Inhibits the logging of recent changes for all processors.</td>
<td>INH:RCLOG</td>
</tr>
<tr>
<td>Requests the reporting of the number of customer-originated recent changes (CORCs) that are logged in one or more switching modules (SMs) and/or one or more communication module processors (CMPs).</td>
<td>OP:CORCSTAT-SM</td>
</tr>
<tr>
<td>Requests verification of permissions for recent change (RC) access from a specified terminal (TTY)</td>
<td>OP:RCACCESS-A</td>
</tr>
<tr>
<td>Requests verification of permissions for recent change (RC) access from a specified terminal (TTY) associated with the 3B processor or a specified login id (LOGIN) assigned on the administrative services module (ASM).</td>
<td>OP:RCACCESS-B</td>
</tr>
<tr>
<td>Requests verification of permissions for recent change (RC) access from a specified terminal associated with the 3B processor, a specified login ID assigned on the administrative services module (ASM), an authority management login (AUTHLOGIN), or a recent change security group (RCSECGRP).</td>
<td>OP:RCACCESS-C</td>
</tr>
<tr>
<td>Requests that the current telephone activations status of recent change delayed messages (RCDMs) be displayed.</td>
<td>OP:RCDLY</td>
</tr>
<tr>
<td>Requests the status of a previously entered REPT:RCHIST input message.</td>
<td>OP:RCHIST</td>
</tr>
<tr>
<td>Requests the status of a previously entered EXC:RCRLS input message.</td>
<td>OP:RCRLS</td>
</tr>
<tr>
<td>Requests that the status of a previously entered EXC:RCRMV input message be output.</td>
<td>OP:RCRMV</td>
</tr>
<tr>
<td>Requests the number of recent changes applied in the administrative module (AM), one or more communication module processors (CMPs), and/or one or more switching modules (SMs) since the previous backup of the office-dependent data (ODD).</td>
<td>OP:RCSTAT-SM</td>
</tr>
<tr>
<td>Requests a report on the active recent change (RC) process that is accessing the office-dependent data (ODD) and the terminal, the clerk ID in the case of batch RC, associated with the process.</td>
<td>OP:RCUSER</td>
</tr>
<tr>
<td>Requests a recent change and verify (RC/V) session using the text input option.</td>
<td>RCV:APPTEXT</td>
</tr>
<tr>
<td>Invokes the text recent change and verify (RC/V) activity; this format is used to insert, update, or delete records in the equipment configuration database (ECD) using serial text input.</td>
<td>RCV:DMTECD-RC</td>
</tr>
<tr>
<td>Invokes the text recent change and verify (RC/V) activity; this format is used to review equipment configuration database (ECD) forms using serial text input.</td>
<td>RCV:DMTECD-VFY</td>
</tr>
<tr>
<td>Invokes the text recent change and verify (RC/V) activity.</td>
<td>RCV:DMTSG-RC</td>
</tr>
<tr>
<td>Invokes the text recent change and verify (RC/V) activity.</td>
<td>RCV:DMTSG-VFY</td>
</tr>
<tr>
<td>Requests that the switch access dictionary editor tool (ACCED) be run.</td>
<td>RCV:M-ACCED</td>
</tr>
<tr>
<td>Runs the switch office-dependent data (ODD) application recent change (APPRC) and verify functions.</td>
<td>RCV:M-APPRC</td>
</tr>
<tr>
<td>Requests that the validity of /no5text/bkup/<em>.ptn files be checked. The validity check is done by comparing the check sum value of each /no5text/bkup/</em>.ptn file against the sum value.</td>
<td>RCV:M-BKUPCHK</td>
</tr>
<tr>
<td>Stored in /no5text/bkup/bkupsum file.</td>
<td></td>
</tr>
<tr>
<td>---------------------------------------</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Reads or patches an administrative module database using the &quot;browse&quot; tool.</th>
<th>RCV:M-BROWSE</th>
</tr>
</thead>
<tbody>
<tr>
<td>Requests that the common network interface database consolidator (CNIDBOC) be run.</td>
<td>RCV:M-CNIDBOC</td>
</tr>
<tr>
<td>Requests that the common network interface (CNI) growth script be executed.</td>
<td>RCV:M-CNIGROWTH</td>
</tr>
<tr>
<td>Compares the equipment configuration database (ECD) and the system generation (SG) database.</td>
<td>RCV:M-COMPAREDB</td>
</tr>
<tr>
<td>Requests that a skeleton equipment configuration database (ECD) be generated.</td>
<td>RCV:M-CREATEECD</td>
</tr>
<tr>
<td>Generates a skeleton system generation (SG).</td>
<td>RCV:M-CREATESG</td>
</tr>
<tr>
<td>Invokes a specified recent change activity; this format is used to evolve a new database from an old one.</td>
<td>RCV:M-EVOL</td>
</tr>
<tr>
<td>Compares of two form types.</td>
<td>RCV:M-FDIFF</td>
</tr>
<tr>
<td>Requests that the automatic generic backup process be started.</td>
<td>RCV:M-GENBKUP</td>
</tr>
<tr>
<td>Compares of two sorted keyfiles.</td>
<td>RCV:M-KEYCMP</td>
</tr>
<tr>
<td>Creates, on the standard output, a list of all keys that are common to two sorted keyfiles.</td>
<td>RCV:M-KEYCOMM</td>
</tr>
<tr>
<td>Creates a sorted list of form keys for all the instances of a given form type found in the equipment configuration database (ECD) and the system generation (SG) database.</td>
<td>RCV:M-KEYS</td>
</tr>
<tr>
<td>Invokes a specified recent change activity.</td>
<td>RCV:M-LOADF3B</td>
</tr>
<tr>
<td>Creates a sorted list of keys for all form types in the equipment configuration database (ECD) and the system generation (SG) database.</td>
<td>RCV:M-NEWDB</td>
</tr>
<tr>
<td>Requests that the office database editor tool (ODBE) be run.</td>
<td>RCV:M-ODBE</td>
</tr>
<tr>
<td>Creates files of form instances when specified data form type(s) from the equipment configuration database (ECD) and the system generation (SG) database are given.</td>
<td>RCV:M-PRINTDB</td>
</tr>
<tr>
<td>Creates a file of all form instances, given a list of form keys, found in the equipment configuration database (ECD) and the system generation (SG) database.</td>
<td>RCV:M-PRINTFRM</td>
</tr>
<tr>
<td>Reviews or modifies an equipment configuration database (ECD) through recent change (RC).</td>
<td>RCV:M-RCVECD</td>
</tr>
<tr>
<td>Reviews or modifies a system generation (SG) database through recent change (RC).</td>
<td>RCV:M-RCVSG</td>
</tr>
<tr>
<td>Requests that tape data of either smtext [text code that resides on switching modules (SMs)] or SM office-dependent data (SMODD) be read in to a disk or a pair of disks other than the primary disk pair.</td>
<td>RCV:M-RDLDFT</td>
</tr>
<tr>
<td>Requests that the automated pack return tag (RTAG) tool be run.</td>
<td>RCV:M-RTAG</td>
</tr>
<tr>
<td>Runs the 5ESS® switch screen program that allows the office user to run the UNIX® shell, office-dependent data (ODD) database editor (ODBE) and common network interface data base operation consolidator (CNIDBOC), access editor (ACCED) and circuit return tag (RTAG) tool from a recent change and verify (RC/V) terminal, with page-at-a-time output.</td>
<td>RCV:M-SCREEN</td>
</tr>
<tr>
<td>Requests an escape to the shell.</td>
<td>RCV:M-SH</td>
</tr>
<tr>
<td>Invokes a specified recent change activity; this format is used to create a translation database when a tree address space and translation specifications are given.</td>
<td>RCV:M-TRANSGEN</td>
</tr>
<tr>
<td>Invokes a specified recent change activity; this format is used to build a tree address space given the old and new form specifications.</td>
<td>RCV:M-TREEBLD</td>
</tr>
<tr>
<td>Checks the syntax of the specified default file [corresponding to the low level recent change and verify (RC/V) equipment configuration database (ECD) form of the same name], and verifies the low level field names and values contained therein are legal for that low level form.</td>
<td>RCV:M-VFYDFLT</td>
</tr>
<tr>
<td>Requests that administrative module (AM) tape and disk backups be verified as usable.</td>
<td>RCV:M-VFYTXT</td>
</tr>
<tr>
<td>Requests an RC batch history of recent changes (RCs) entered into the RC batch delayed-release clerk files.</td>
<td>REPT:RCHIST</td>
</tr>
</tbody>
</table>
Requests that permissions for recent change (RC) access from a specified terminal (TTY) be set.

**SET:**RCACCESS-A

5E12 only

Requests that permissions for recent change (RC) access from a specified terminal (TTY) associated with the 3B processor or a specified login ID (LOGIN) from the administrative services module (ASM) be set.

**SET:**RCACCESS-B

5E13 - 5E14

Requests that permissions for recent change (RC) access from a specified terminal associated with the 3B processor, a specified login ID from the administrative services module (ASM) be set, an authority management login, or a recent change security group.

**SET:**RCACCESS-C

5E15 and later

Requests the termination or initialization of the recent change kernel process (RCKP).

**ST:**OVERLAY

5E12 and later

Requests that a previously entered REPT:RCHIST input message be stopped.

**STP:**RCHIST

5E12 and later

Requests that a previously entered EXC:RCRLS input message be stopped.

**STP:**RCRLS

5E12 and later

Requests that a previously entered EXC:RCRMV input message for a delayed release clerkfile be stopped.

**STP:**RCRMV

5E12 and later

### 179.1 Global Recent Change

<table>
<thead>
<tr>
<th>Topic/Purpose</th>
<th>Message ID/Software Release Range</th>
</tr>
</thead>
<tbody>
<tr>
<td>Requests that a global recent change (GRC) job that is waiting in the queue be canceled.</td>
<td>CLR:GRC</td>
</tr>
<tr>
<td>5E12 and later</td>
<td></td>
</tr>
<tr>
<td>Requests that a global recent change (GRC) operation that is halted be restarted.</td>
<td>EXC:GRC</td>
</tr>
<tr>
<td>5E12 and later</td>
<td></td>
</tr>
<tr>
<td>Requests that the global recent change (GRC) password for the given clerk identifier be updated or deleted.</td>
<td>EXC:GRCPASSWORD</td>
</tr>
<tr>
<td>5E12 and later</td>
<td></td>
</tr>
<tr>
<td>Requests that a global recent change (GRC) job that is waiting in the queue be canceled.</td>
<td>GRC:CANCEL</td>
</tr>
<tr>
<td>5E12 and later</td>
<td></td>
</tr>
<tr>
<td>Requests that a global recent change (GRC) operation that is halted be restarted.</td>
<td>GRC:CONTINUE</td>
</tr>
<tr>
<td>5E12 and later</td>
<td></td>
</tr>
<tr>
<td>Requests that the execution of the current global recent change (GRC) job be suspended.</td>
<td>GRC:HALT</td>
</tr>
<tr>
<td>5E12 and later</td>
<td></td>
</tr>
<tr>
<td>Requests that the global recent change (GRC) password for the given clerk identifier be updated or deleted.</td>
<td>GRC:PASSWORD</td>
</tr>
<tr>
<td>5E12 and later</td>
<td></td>
</tr>
<tr>
<td>Requests that a report of the global recent change (GRC) activity be printed.</td>
<td>GRC:REPORT</td>
</tr>
<tr>
<td>5E12 and later</td>
<td></td>
</tr>
<tr>
<td>Requests that a global recent change (GRC) job be rescheduled.</td>
<td>GRC:RESCHED</td>
</tr>
<tr>
<td>5E12 and later</td>
<td></td>
</tr>
<tr>
<td>Requests that the specified global recent change (GRC) job be removed from the switch.</td>
<td>GRC:RMV</td>
</tr>
<tr>
<td>5E12 and later</td>
<td></td>
</tr>
<tr>
<td>Requests that a global recent change (GRC) test update job be run to verify that the correct updates will be applied.</td>
<td>GRC:TEST-NAME</td>
</tr>
<tr>
<td>5E12 and later</td>
<td></td>
</tr>
<tr>
<td>Requests that a report of the global recent change (GRC) activity be printed.</td>
<td>REPT:GRC</td>
</tr>
<tr>
<td>5E12 and later</td>
<td></td>
</tr>
<tr>
<td>Requests that the specified global recent change (GRC) job be removed from the switch.</td>
<td>RMV:GRC</td>
</tr>
<tr>
<td>5E12 and later</td>
<td></td>
</tr>
<tr>
<td>Requests that a global recent change (GRC) job be rescheduled.</td>
<td>SCHED:GRC</td>
</tr>
<tr>
<td>5E12 and later</td>
<td></td>
</tr>
<tr>
<td>Requests that the execution of the current global recent change (GRC) job be suspended.</td>
<td>STP:GRC</td>
</tr>
<tr>
<td>5E12 and later</td>
<td></td>
</tr>
<tr>
<td>Requests that a global recent change (GRC) test update job be run to verify that the correct updates will be applied.</td>
<td>TST:GRC</td>
</tr>
<tr>
<td>5E12 and later</td>
<td></td>
</tr>
</tbody>
</table>

### 179.2 Recent Change Security Group

<table>
<thead>
<tr>
<th>Topic/Purpose</th>
<th>Message ID/Software Release Range</th>
</tr>
</thead>
<tbody>
<tr>
<td>If the recent change (RC) access for a specified terminal associated with the 3B processor, a specified login ID assigned on the administrative services module (ASM), or an authority</td>
<td>OP:RCSECGRP</td>
</tr>
<tr>
<td>5E15 and later</td>
<td></td>
</tr>
</tbody>
</table>
management login (AUTHLOGIN), this message requests the recent change security Group (RCSECGRP) that it is assigned to.

Requests that a specified terminal associated with the 3B processor, a specified login ID the administrative services module (ASM), or an authority management login (AUTHLOGIN), be assigned to a recent change security group (RCSECGRP).

180. RECORDED ANNOUNCEMENT FRAME

<table>
<thead>
<tr>
<th>Topic/Purpose</th>
<th>Message ID/ Software Release Range</th>
</tr>
</thead>
<tbody>
<tr>
<td>Aborts the specified actions on the recorded announcement function (RAF) unit.</td>
<td>ABT:RAF 5E12 and later</td>
</tr>
<tr>
<td>Allows hardware checks in a recorded announcement function (RAF) unit to occur.</td>
<td>ALW:HDW-RAF 5E12 and later</td>
</tr>
<tr>
<td>Removes and diagnoses a recorded announcement function (RAF) unit to determine whether it is in satisfactory working order.</td>
<td>DGN:RAF 5E12 and later</td>
</tr>
<tr>
<td>Interactively diagnoses (exercises) the recorded announcement function (RAF) unit.</td>
<td>EX:RAF 5E12 and later</td>
</tr>
<tr>
<td>Inhibits hardware checks in a recorded announcement function (RAF) unit.</td>
<td>INH:HDW-RAF 5E12 and later</td>
</tr>
<tr>
<td>Requests that a recorded announcement function (RAF) unit be removed from service.</td>
<td>RMV:RAF 5E12 and later</td>
</tr>
<tr>
<td>Conditionally or unconditionally restores a recorded announcement function (RAF) unit to service.</td>
<td>RST:RAF 5E12 and later</td>
</tr>
<tr>
<td>Requests that the specified actions on the recorded announcement function (RAF) unit be stopped.</td>
<td>STP:RAF 5E12 and later</td>
</tr>
</tbody>
</table>

181. REGISTERS

<table>
<thead>
<tr>
<th>Topic/Purpose</th>
<th>Message ID/ Software Release Range</th>
</tr>
</thead>
<tbody>
<tr>
<td>Requests that data be copied from the administrative module (AM) registers to virtual addresses in main memory and in registers as an action associated with a breakpoint.</td>
<td>COPY:REG 5E12 and later</td>
</tr>
<tr>
<td>Dumps the contents of one or more registers, either as an immediate action, or as an action associated with a breakpoint.</td>
<td>DUMP:REG 5E12 and later</td>
</tr>
<tr>
<td>Requests that the contents of the error registers of the specified hardware unit be initialized.</td>
<td>INIT:REG 5E12 and later</td>
</tr>
<tr>
<td>Loads an administrative module (AM) register with specified data as a breakpoint action.</td>
<td>LOAD:REG 5E12 and later</td>
</tr>
<tr>
<td>Requests that the contents of the error registers of the specified hardware unit be printed.</td>
<td>OP:REG 5E12 and later</td>
</tr>
</tbody>
</table>

182. REMOTE BUILDING AND MISCELLANEOUS SCAN POINT

<table>
<thead>
<tr>
<th>Topic/Purpose</th>
<th>Message ID/ Software Release Range</th>
</tr>
</thead>
<tbody>
<tr>
<td>Inhibits alarms from a single specific REMOTE building or miscellaneous alarm scan point.</td>
<td>INH:RBPSC-SM 5E12 and later</td>
</tr>
</tbody>
</table>

183. REMOTE CLOCK

<table>
<thead>
<tr>
<th>Topic/Purpose</th>
<th>Message ID/ Software Release Range</th>
</tr>
</thead>
<tbody>
<tr>
<td>Aborts maintenance actions on the remote clock (RCLK) circuit.</td>
<td>ABT:RCLK 5E12 and later</td>
</tr>
<tr>
<td>Allows hardware error checks to be performed on the specified remote clock (RCLK) circuit at the peripheral interface control bus (PICB) level.</td>
<td>ALW:HDW-RCLK 5E12 and later</td>
</tr>
<tr>
<td>Requests a diagnosis of a remote clock (RCLK) side.</td>
<td>DGN:RCLK 5E12 and later</td>
</tr>
<tr>
<td>Requests that maintenance exercises be performed on the remote clock (RCLK).</td>
<td>EX:RCLK</td>
</tr>
</tbody>
</table>
Inhibits hardware error checks from being performed on the specified remote clock (RCLK) circuit at the peripheral interface control bus (PICB) level.

Requests that a specified remote clock (RCLK) circuit be removed from service.

Requests that the specified remote clock (RCLK) circuit be restored to service.

Requests that a remote clock (RCLK) circuit be set to a specific mode.

Requests that maintenance actions on the remote clock (RCLK) circuit be stopped.

Requests that the status of active and standby remote clock (RCLK) circuits be switched.

<table>
<thead>
<tr>
<th>183.1 Remote Clock Cross Couple</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Topic/Purpose</strong></td>
</tr>
<tr>
<td>Aborts maintenance actions on the remote clock cross couple (RCXC).</td>
</tr>
<tr>
<td>Requests that a specified remote clock cross couple (RCXC) be removed from service.</td>
</tr>
<tr>
<td>Requests that a specified remote clock cross couple (RCXC) be restored to service.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>183.2 Remote Clock Oscillator</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Topic/Purpose</strong></td>
</tr>
<tr>
<td>Aborts maintenance actions on the remote clock oscillator (RCOSC).</td>
</tr>
<tr>
<td>Allows hardware error checks to be performed on the specified remote clock oscillator (RCOSC) circuit.</td>
</tr>
<tr>
<td>Inhibits hardware error checks from being performed on the specified remote clock oscillator (RCOSC) circuit.</td>
</tr>
<tr>
<td>Requests that a specified remote clock oscillator (RCOSC) be removed from service.</td>
</tr>
<tr>
<td>Requests that a specified remote clock oscillator (RCOSC) be restored to service.</td>
</tr>
<tr>
<td>Requests the switch of active remote clock oscillators (RCOSC) to the specified remote clock (RCLK) side.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>183.3 Remote Clock Oscillator Couple</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Topic/Purpose</strong></td>
</tr>
<tr>
<td>Aborts maintenance actions on the remote clock oscillator cross couple (RCOXC).</td>
</tr>
<tr>
<td>Allows hardware error checks to be performed on the specified remote clock oscillator cross couple (RCOXC) link.</td>
</tr>
<tr>
<td>Inhibits hardware error checks from being performed on the specified remote clock oscillator cross couple (RCOXC) circuit.</td>
</tr>
<tr>
<td>Requests that a specified remote clock oscillator cross couple (RCOXC) be removed from service.</td>
</tr>
<tr>
<td>Requests that a specified remote clock oscillator cross couple (RCOXC) be restored to service.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>183.4 Remote Clock Reference</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Topic/Purpose</strong></td>
</tr>
</tbody>
</table>

---

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### 184. REMOTE COMMON DATA AND CONTROL

<table>
<thead>
<tr>
<th>Topic/Purpose</th>
<th>Message ID/ Software Release Range</th>
</tr>
</thead>
<tbody>
<tr>
<td>Requests that an operation be performed or a status read on a remote common data and control (COMDAC) distribute point.</td>
<td>EX:RCDDP 5E12 and later</td>
</tr>
</tbody>
</table>

### 185. REMOTE COMMUNICATIONS LINK

<table>
<thead>
<tr>
<th>Topic/Purpose</th>
<th>Message ID/ Software Release Range</th>
</tr>
</thead>
<tbody>
<tr>
<td>Requests that maintenance actions on an inter-remote switching module (RSM) remote communication link (RCL) be aborted.</td>
<td>ABT:RCL 5E12 and later</td>
</tr>
<tr>
<td>Requests that a remote communication link (RCL) between inter-remote switching module (RSM) communication link digital facilities interface (CDFI) circuits be removed from service.</td>
<td>RMV:RCL 5E12 and later</td>
</tr>
<tr>
<td>Requests that a remote communication link (RCL) between inter-remote switching module (RSM) communication link digital facilities interface (CDFI) circuits be restored to service.</td>
<td>RST:RCL 5E12 and later</td>
</tr>
<tr>
<td>Requests that maintenance actions on an inter-remote switching module (RSM) communication link (RCL) be stopped.</td>
<td>STP:RCL 5E12 and later</td>
</tr>
</tbody>
</table>

### 186. REMOTE INTEGRATED SERVICE LINE UNIT

#### 186.1 Remote Integrated Service Line Unit Remote Clock Circuit Pack

<table>
<thead>
<tr>
<th>Topic/Purpose</th>
<th>Message ID/ Software Release Range</th>
</tr>
</thead>
<tbody>
<tr>
<td>Aborts maintenance actions on a remote integrated services line unit (RISLU) remote clock circuit pack (RRCCLK).</td>
<td>ABT:RRCCLK 5E12 and later</td>
</tr>
<tr>
<td>Allows hardware checks to occur on a remote integrated services line unit (RISLU) remote clock circuit pack (RRCCLK).</td>
<td>ALW:HDW-RRCCLK 5E12 and later</td>
</tr>
<tr>
<td>Diagnoses a remote integrated services line unit (RISLU) remote clock (RRCCLK) circuit pack to determine whether it is in satisfactory working order.</td>
<td>DGN:RRCCLK 5E12 and later</td>
</tr>
<tr>
<td>Exercises a remote integrated services line unit (RISLU) remote clock (RRCCLK) circuit pack.</td>
<td>EX:RRCCLK 5E12 and later</td>
</tr>
<tr>
<td>Inhibits hardware checks in a remote integrated services line unit (RISLU) remote clock circuit pack (RRCCLK).</td>
<td>INH:HDW-RRCCLK 5E12 and later</td>
</tr>
<tr>
<td>Requests that a remote integrated services line unit (RISLU) remote clock circuit pack (RRCCLK) be removed from service.</td>
<td>RMV:RRCCLK 5E12 and later</td>
</tr>
<tr>
<td>Requests that a remote integrated services line unit (RISLU) remote clock circuit pack (RRCCLK) be restored to service.</td>
<td>RST:RRCCLK 5E12 and later</td>
</tr>
<tr>
<td>Requests that maintenance actions be stopped on a remote integrated services line unit (RISLU) remote clock circuit pack (RRCCLK).</td>
<td>STP:RRCCLK 5E12 and later</td>
</tr>
<tr>
<td>Requests that the active/standby states of the remote integrated services line unit (RISLU) remote clock circuit packs (RRCCLKs) be switched (interchanged).</td>
<td>SW:RRCCLK 5E12 and later</td>
</tr>
</tbody>
</table>
## 187. REMOTE SWITCHING MODULE

### 187.1 Remote Switching Module Alarm

<table>
<thead>
<tr>
<th>Topic/Purpose</th>
<th>Message ID/ Software Release Range</th>
</tr>
</thead>
<tbody>
<tr>
<td>Requests that maintenance actions on the remote switching module (RSM) alarm (RAU) circuit be aborted.</td>
<td>ABT:RAU 5E12 and later</td>
</tr>
<tr>
<td>Requests that a remote switching module (RSM) alarm (RAU) circuit be diagnosed to determine if it is in working order.</td>
<td>DGN:RAU 5E12 and later</td>
</tr>
<tr>
<td>Performs maintenance exercises on the remote switching module (RSM) alarm (RAU) circuit.</td>
<td>EX:RAU 5E12 and later</td>
</tr>
<tr>
<td>Requests that a remote switching module (RSM) alarm (RAU) circuit be removed from service.</td>
<td>RMV:RAU 5E12 and later</td>
</tr>
<tr>
<td>Restores a remote switching module (RSM) alarm (RAU) circuit to service.</td>
<td>RST:RAU 5E12 and later</td>
</tr>
<tr>
<td>Requests that maintenance actions on the remote switching module (RSM) alarm (RAU) circuit be stopped.</td>
<td>STP:RAU 5E12 and later</td>
</tr>
</tbody>
</table>

### 187.2 Remote Switching Module Digital Facility Interface

<table>
<thead>
<tr>
<th>Topic/Purpose</th>
<th>Message ID/ Software Release Range</th>
</tr>
</thead>
<tbody>
<tr>
<td>Requests that maintenance actions on the remote switching module (RSM) digital facilities interface (RDFI) circuit be aborted.</td>
<td>ABT:RDFI 5E12 and later</td>
</tr>
<tr>
<td>Requests that a remote switching module (RSM) digital facilities interface (RDFI) circuit be diagnosed to determine if it is in working order.</td>
<td>DGN:RDFI 5E12 and later</td>
</tr>
<tr>
<td>Performs maintenance exercises on the remote switching module (RSM) digital facilities interface (RDFI) circuit.</td>
<td>EX:RDFI 5E12 and later</td>
</tr>
<tr>
<td>Requests that a remote switching module (RSM) digital facilities interface (RDFI) circuit be removed from service.</td>
<td>RMV:RDFI 5E12 and later</td>
</tr>
<tr>
<td>Restores a remote switching module (RSM) digital facilities interface (RDFI) circuit to service.</td>
<td>RST:RDFI 5E12 and later</td>
</tr>
</tbody>
</table>

### 187.3 Remote Switching Module Remote Link Interface

<table>
<thead>
<tr>
<th>Topic/Purpose</th>
<th>Message ID/ Software Release Range</th>
</tr>
</thead>
<tbody>
<tr>
<td>Requests that maintenance actions on the remote switching module (RSM) remote link interface (RLI) circuit be aborted.</td>
<td>ABT:RLI 5E12 and later</td>
</tr>
<tr>
<td>Allows hardware error checks to be performed on the specified remote switching module (RSM) remote link interface (RLI) circuit.</td>
<td>ALW:HDW-RLI 5E12 and later</td>
</tr>
<tr>
<td>Requests that the size of the stand alone billing memory (SABM) on switching modules (SMs) be configured.</td>
<td>CFR:SAMEM-A 5E12 only</td>
</tr>
<tr>
<td>The CFR:SAMEM command is used to configure the size of the stand alone billing memory (SABM) on switching modules (SMs).</td>
<td>CFR:SAMEM-B 5E13 and later</td>
</tr>
<tr>
<td>Requests that a remote switching module (RSM) remote link interface (RLI) circuit be diagnosed to determine if it is in working order.</td>
<td>DGN:RLI 5E12 and later</td>
</tr>
<tr>
<td>Performs maintenance exercises on the remote switching module (RSM) remote link interface (RLI) circuit.</td>
<td>EX:RLI 5E12 and later</td>
</tr>
<tr>
<td>Inhibits the hardware error checks performed on the specified remote switching module (RSM) remote link interface (RLI) circuit.</td>
<td>INH:HDW-RLI 5E12 and later</td>
</tr>
<tr>
<td>Requests that a remote switching module (RSM) remote link interface (RLI) circuit be removed from service.</td>
<td>RMV:RLI 5E12 and later</td>
</tr>
<tr>
<td>Restores a remote switching module (RSM) remote link interface (RLI) circuit to service and makes it active or standby.</td>
<td>RST:RLI 5E12 and later</td>
</tr>
<tr>
<td>Requests that maintenance actions be stopped on the remote switching module (RSM) remote link interface (RLI) circuit.</td>
<td>STP:RLI 5E12 and later</td>
</tr>
<tr>
<td>Requests that activity of the remote switching module (RSM) remote link interface (RLI) circuit be switched.</td>
<td>SW:RLI 5E12 and later</td>
</tr>
</tbody>
</table>
Requests verification of the amount of stand alone billing memory (SABM) and the amount currently in use.

The VFY:SAMEM input message requests a report of the amount of memory configured for the stand alone billing memory (SABM) and the amount currently in use.

<table>
<thead>
<tr>
<th>188. REMOTE TERMINAL</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Topic/Purpose</strong></td>
</tr>
<tr>
<td>Requests that the actions on a remote terminal (RT) for the specified unit circuit be aborted.</td>
</tr>
<tr>
<td>Requests that the actions on a remote terminal (RT) for the specified unit circuit be aborted.</td>
</tr>
<tr>
<td>Requests that protection line switch requests be allowed to be performed on the specified remote terminal (RT) digital signal level one (DS1) facility (FAC) or requests that a DS1 be allowed to be released from protection.</td>
</tr>
<tr>
<td>Requests that the printing of remote terminal (RT) report messages be allowed at the Master Control Center (MCC) and the Switching Control Center (SCC).</td>
</tr>
<tr>
<td>Requests that the printing of remote terminal (RT) report messages be allowed at the Master Control Center (MCC) and the Switching Control Center (SCC).</td>
</tr>
<tr>
<td>Requests that metallic setup failure override be allowed when the metallic test bus (MTB) is found to be open between the test bus control unit (TBCU) and the remote terminal (RT).</td>
</tr>
<tr>
<td>Requests that the printing of the REPT:RTMTB-SID output message be allowed when the metallic test bus (MTB) fails the closed diode protocol test during metallic setup to a remote terminal (RT).</td>
</tr>
<tr>
<td>Requests that a far end loop process (FELP) or a protection (PROT) configuration request be cleared for a particular digital signal level one (DS1) facility (FAC).</td>
</tr>
<tr>
<td>Requests the disabling of the option of having the switching module (SM) status indicator updated to off-normal (OFFN) when a remote terminal (RT) T1 is in an off-normal state.</td>
</tr>
<tr>
<td>Requests that equipment numbers relating to remote terminals (RT) that interface to an integrated digital carrier unit (IDCU) or a digital networking unit - synchronous optical network (DNU-S) be converted.</td>
</tr>
<tr>
<td>Requests the provisioning of a TR303 remote terminal (RT) on an integrated digital carrier unit (IDCU) or digital network unit SONET (DNU-S).</td>
</tr>
<tr>
<td>Requests that protection line switch requests to be performed on the specified remote terminal (RT) digital signal level one (DS1) facility (FAC) circuit be inhibited or requests that a DS1 currently on protection be taken off of protection.</td>
</tr>
<tr>
<td>Requests that the printing of remote terminal (RT) report messages be allowed at the Master Control Center (MCC) and the Switching Control Center (SCC).</td>
</tr>
<tr>
<td>Requests that the printing of remote terminal (RT) report messages be allowed at the Master Control Center (MCC) and the Switching Control Center (SCC).</td>
</tr>
<tr>
<td>Requests that metallic setup failure override be inhibited when the metallic test bus (MTB) is found to be open between the test bus control unit (TBCU) and the remote terminal (RT).</td>
</tr>
<tr>
<td>Requests that the printing of the REPT:RTMTB-SID output message be inhibited when the metallic test bus (MTB) fails the closed diode protocol test during metallic setup to a remote terminal (RT).</td>
</tr>
<tr>
<td>Requests a report of the current off-normal states and alarms for integrated TR008/TR303 remote terminals (RT) in the office, either as a summary or a separate report for each RT.</td>
</tr>
<tr>
<td>Requests that information describing the configuration of the embedded operations channel (EOC) and timeslot management channel (TMC) for the specified remote terminal (RT) be displayed.</td>
</tr>
<tr>
<td>Requests the current status of the printing of remote terminal (RT) report messages at the Master Control Center (MCC) and the Switching Control Center (SCC).</td>
</tr>
<tr>
<td>Requests a report of the current off-normal states and alarms for one or more integrated TR008/TR303 remote terminals (RT) in the office.</td>
</tr>
<tr>
<td>Requests a remote terminal (RT) embedded operations channel (EOC) circuit be</td>
</tr>
<tr>
<td>Request Description</td>
</tr>
<tr>
<td>-----------------------------------------------------------------------------------</td>
</tr>
<tr>
<td>Requests that a remote terminal (RT) timeslot management channel (TMC) circuit be removed from service either conditionally, by waiting for it to become idle, or unconditionally, by preemtting the current user.</td>
</tr>
<tr>
<td>Requests that a remote terminal (RT) embedded operations channel (EOC) circuit be removed from service either conditionally, by waiting for it to become idle, or unconditionally, by preemtting the current user.</td>
</tr>
<tr>
<td>Requests that a remote terminal (RT) timeslot management channel (TMC) circuit be removed from service either conditionally, by waiting for it to become idle, or unconditionally, by preemtting the current user.</td>
</tr>
<tr>
<td>Requests that a remote terminal (RT) embedded operations channel (EOC) circuit be removed from service either conditionally, by waiting for it to become idle, or unconditionally, by preemtting the current user.</td>
</tr>
<tr>
<td>Requests that a remote terminal (RT) timeslot management channel (TMC) circuit be removed from service either conditionally, by waiting for it to become idle, or unconditionally, by preemtting the current user.</td>
</tr>
<tr>
<td>Requests that a remote terminal (RT) facility (FAC) circuit be removed from service either conditionally, by waiting for it to become idle, or unconditionally, by preemtting the current user.</td>
</tr>
<tr>
<td>Requests that a remote terminal (RT) embedded operations channel (EOC) circuit be restored to service.</td>
</tr>
<tr>
<td>Requests that a remote terminal (RT) timeslot management channel (TMC) circuit be restored to service.</td>
</tr>
<tr>
<td>Requests that a remote terminal (RT) embedded operations channel (EOC) circuit be restored to service.</td>
</tr>
<tr>
<td>Requests that a remote terminal (RT) timeslot management channel (TMC) circuit be restored to service.</td>
</tr>
<tr>
<td>Requests that a remote terminal (RT) embedded operations channel (EOC) circuit be restored to service.</td>
</tr>
<tr>
<td>Requests that a remote terminal (RT) timeslot management channel (TMC) circuit be restored to service.</td>
</tr>
<tr>
<td>Requests that a remote terminal (RT) facility (FAC) circuit be restored to service.</td>
</tr>
<tr>
<td>Requests that a far end loop process (FELP) or a protection configuration request (PROT) be set for a particular digital signal level one (DS1) facility (FAC).</td>
</tr>
<tr>
<td>Requests enabling of the option to update the switching module (SM) status indicator to off-normal when a remote terminal (RT) T1 is in an off-normal state.</td>
</tr>
<tr>
<td>Request that actions on a remote terminal (RT) embedded operations channel (EOC) circuit be stopped.</td>
</tr>
<tr>
<td>Requests that actions on a remote terminal (RT) timeslot Management channel (TMC) circuit be stopped.</td>
</tr>
<tr>
<td>Request that actions on a remote terminal (RT) embedded operations channel (EOC) circuit be stopped.</td>
</tr>
<tr>
<td>Request that actions on a remote terminal (RT) timeslot Management channel (TMC) circuit be stopped.</td>
</tr>
<tr>
<td>Requests that actions on a remote terminal (RT) timeslot Management channel (TMC) circuit be stopped.</td>
</tr>
<tr>
<td>Requests that the actions on a remote terminal (RT) for the specified unit circuit be stopped.</td>
</tr>
<tr>
<td>Requests that the actions on a remote terminal (RT) for the specified unit circuit be stopped.</td>
</tr>
<tr>
<td>Requests that actions on a remote terminal (RT) facility (FAC) circuit be stopped.</td>
</tr>
<tr>
<td>Requests that the active and standby states of remote terminal (RT) embedded operations channel (EOC) circuits be switched (interchanged).</td>
</tr>
<tr>
<td>Requests that the active and standby states of remote terminal (RT) timeslot management channel (TMC) circuits be switched (interchanged).</td>
</tr>
<tr>
<td>Requests that the active and standby states of remote terminal (RT) embedded operations channel (EOC) circuits be switched (interchanged).</td>
</tr>
<tr>
<td>Requests that the active and standby states of remote terminal (RT) timeslot management channel (TMC) circuits be switched (interchanged).</td>
</tr>
</tbody>
</table>
Requests that the active and standby states of remote terminal (RT) timeslot management channel (TMC) circuits be switched (interchanged).  

<table>
<thead>
<tr>
<th>Topic/Purpose</th>
<th>Message ID/ Software Release Range</th>
</tr>
</thead>
<tbody>
<tr>
<td>To allow automatic reorganization of all database relations listed on the REPT:REORG output message.</td>
<td>ALW:REORG 5E12 and later</td>
</tr>
<tr>
<td>Runs the reorganization of the database relations immediately.</td>
<td>EXC:REORG 5E12 and later</td>
</tr>
<tr>
<td>Inhibits automatic reorganization of database relations.</td>
<td>INH:REORG 5E12 and later</td>
</tr>
<tr>
<td>Requests that the time for reorganization of the database relation to run automatically be set to a specific value.</td>
<td>SET:REORG 5E12 and later</td>
</tr>
</tbody>
</table>

190. REPORTS

Requests a summary report of the ANI Table (RC View 8.51).

<table>
<thead>
<tr>
<th>Topic/Purpose</th>
<th>Message ID/ Software Release Range</th>
</tr>
</thead>
<tbody>
<tr>
<td>Requests a summary report of the ANI Table (RC View 8.51).</td>
<td>OP:ANITBL-A 5E12 only</td>
</tr>
<tr>
<td>Requests a summary report of the ANI Table (RC View 8.51) or ANI Index Table (RC View 8.58) and LDP Index Table (RC View 8.59).</td>
<td>OP:ANITBL-B 5E13 only</td>
</tr>
<tr>
<td>Requests a summary report of the ANI Index Table RC/V View 8.58 and LDP Index Table RC/V View 8.59.</td>
<td>OP:ANITBL-C 5E14 and later</td>
</tr>
<tr>
<td>Requests that the plant report be printed at a time other than the regularly scheduled time.</td>
<td>OP:PLNT24 5E12 and later</td>
</tr>
<tr>
<td>Requests the various plant measurements common reports, detailing system performance statistics.</td>
<td>OP:PMCR 5E12 and later</td>
</tr>
</tbody>
</table>

191. RETROFIT

Requests a memory forecast report on the amount of processor memory required to retrofit to a subsequent software release.

<table>
<thead>
<tr>
<th>Topic/Purpose</th>
<th>Message ID/ Software Release Range</th>
</tr>
</thead>
<tbody>
<tr>
<td>Requests a memory forecast report on the amount of processor memory required to retrofit to a subsequent software release.</td>
<td>OP:MEMSIZE 5E12 and later</td>
</tr>
<tr>
<td>Requests termination of the OP:MEMSIZE input message.</td>
<td>STP:MEMSIZE 5E12 and later</td>
</tr>
</tbody>
</table>

192. REVERTIVE PULSING TRANSCEIVER

Requests that actions currently running on the revertive pulsing transceiver (RVPT) be aborted.

<table>
<thead>
<tr>
<th>Topic/Purpose</th>
<th>Message ID/ Software Release Range</th>
</tr>
</thead>
<tbody>
<tr>
<td>Requests that actions currently running on the revertive pulsing transceiver (RVPT) be aborted.</td>
<td>ABT:RVPT 5E12 and later</td>
</tr>
<tr>
<td>Allows hardware error checks to be performed on the specified revertive pulsing transceiver (RVPT).</td>
<td>ALW:HDW-RVPT 5E12 and later</td>
</tr>
<tr>
<td>Requests that the revertive pulsing transceiver (RVPT) be diagnosed to determine whether it is in satisfactory working order.</td>
<td>DGN:RVPT 5E12 and later</td>
</tr>
<tr>
<td>Interactively diagnoses (exercises) the revertive pulsing transceiver (RVPT) to determine whether it is in satisfactory working order.</td>
<td>EX:RVPT 5E12 and later</td>
</tr>
<tr>
<td>Inhibits the hardware error checks performed on the specified revertive pulsing transceiver (RVPT).</td>
<td>INH:HDW-RVPT 5E12 and later</td>
</tr>
<tr>
<td>Requests that the revertive pulsing transceiver (RVPT) be removed from service.</td>
<td>RMV:RVPT 5E12 and later</td>
</tr>
<tr>
<td>Conditionally or unconditionally restores the revertive pulsing transceiver (RVPT) to the active</td>
<td>RST:RVPT 5E12 and later</td>
</tr>
</tbody>
</table>
Requests that currently running actions be stopped gracefully on the revertive pulsing transceiver (RVPT) at the specified location.

STP:RVPT

5E12 and later

### 193. RING

<table>
<thead>
<tr>
<th>Topic/Purpose</th>
<th>Message ID/ Software Release Range</th>
</tr>
</thead>
<tbody>
<tr>
<td>Requests that entry into the ring tracker mode be allowed; a prior INH:RTRACK input message has inhibited ring tracker mode.</td>
<td>ALW:RTRACK 5E12 and later</td>
</tr>
<tr>
<td>Requests that the ring tracker mode be initiated.</td>
<td>EXC:RTRACK 5E12 and later</td>
</tr>
<tr>
<td>Requests that entry into the ring tracker mode be inhibited.</td>
<td>INH:RTRACK 5E12 and later</td>
</tr>
<tr>
<td>Requests that the current status of the ring tracker mode be reported.</td>
<td>OP:RTRACK 5E12 and later</td>
</tr>
<tr>
<td>Requests the termination of ring tracker mode.</td>
<td>STOP:RTRACK 5E12 and later</td>
</tr>
</tbody>
</table>

### 193.1 Ring Peripheral Controller Node

<table>
<thead>
<tr>
<th>Topic/Purpose</th>
<th>Message ID/ Software Release Range</th>
</tr>
</thead>
<tbody>
<tr>
<td>Requests diagnostics of the specified ring peripheral controller node (RPCN).</td>
<td>DGN:RPCN 5E12 and later</td>
</tr>
<tr>
<td>Exercises a ring peripheral controller node (RPCN) in an interactive diagnostic mode.</td>
<td>EX:RPCN 5E12 and later</td>
</tr>
<tr>
<td>Requests that the directory numbers on the calling line identification list (CLID) be printed.</td>
<td>OP:CLID 5E12 and later</td>
</tr>
<tr>
<td>Requests that the specified ring peripheral controller node (RPCN) be removed from service.</td>
<td>RMV:RPCN 5E12 and later</td>
</tr>
<tr>
<td>Requests that the specified ring peripheral controller node (RPCN) be restored to service.</td>
<td>RST:RPCN 5E12 and later</td>
</tr>
</tbody>
</table>

### 194. ROUTINE EXERCISE

<table>
<thead>
<tr>
<th>Topic/Purpose</th>
<th>Message ID/ Software Release Range</th>
</tr>
</thead>
<tbody>
<tr>
<td>Requests that any currently running generated key collection and compression routine (GKCCR) processes be aborted in specified processors.</td>
<td>ABT:GKCCR 5E12 and later</td>
</tr>
<tr>
<td>Requests that automatic periodic execution of the generated key collection and compression routine (GKCCR) be allowed in specified processors.</td>
<td>ALW:GKCCR 5E12 and later</td>
</tr>
<tr>
<td>Requests that routine exercises (REX) be allowed by clearing individual routine exercise inhibits for one or more hardware communities by clearing the REX temporary inhibit(s).</td>
<td>ALW:REX 5E12 and later</td>
</tr>
<tr>
<td>Allows either one or all valid test types of routine exercise (REX) of the hardware in the communication module (CM) and all switching modules (SMs) or in the CM or in a range of SMs.</td>
<td>ALW:REX-CM-SM 5E12 and later</td>
</tr>
<tr>
<td>Requests that the scheduling of a unit for routine exercise (REX) be allowed in the communication module (CM) or in a switching module (SM).</td>
<td>ALW:REX-UNIT-A 5E12 - 5E14</td>
</tr>
<tr>
<td>Requests that the scheduling of a unit for routine exercise (REX) be allowed in the communication module (CM) or in a switching module (SM).</td>
<td>ALW:REX-UNIT-B 5E15 and later</td>
</tr>
<tr>
<td>Requests execution of a generated key collection and compression routine (GKCCR) in the specified processors.</td>
<td>EXC:GKCCR 5E12 and later</td>
</tr>
<tr>
<td>Requests routine exercises (REX) of the hardware in the communication module (CM) and all switching modules (SMs) or in the CM or in a range of SMs be executed.</td>
<td>EXC:REX-CM-SM 5E12 and later</td>
</tr>
<tr>
<td>Requests a routine exercise (REX) and/or automatic line insulation test (ALIT) schedule be generated based on the equipment present.</td>
<td>EXC:SCHED 5E12 and later</td>
</tr>
<tr>
<td>Requests the inhibition of automatic executions of the generated key collection and compression routine (GKCCR) in specified processors.</td>
<td>INH:GKCCR 5E12 and later</td>
</tr>
<tr>
<td>Requests that routine exercises (REX) be inhibited for one or more hardware communities by</td>
<td>INH:REX 5E12 and later</td>
</tr>
</tbody>
</table>
195. ROUTINE PORT CONDITIONING

<table>
<thead>
<tr>
<th>Topic/Purpose</th>
<th>Message ID/ Software Release Range</th>
</tr>
</thead>
<tbody>
<tr>
<td>The purpose of this input message is to allow routine port conditioning.</td>
<td>ALW:RPC</td>
</tr>
<tr>
<td></td>
<td>5E12 and later</td>
</tr>
<tr>
<td>The purpose of this input message is to inhibit routine port conditioning.</td>
<td>INH:RPC</td>
</tr>
<tr>
<td></td>
<td>5E12 and later</td>
</tr>
<tr>
<td>Requests the status of the routine port conditioning (RPC) for a specified SM.</td>
<td>OP:RPC-SM</td>
</tr>
<tr>
<td></td>
<td>5E15 and later</td>
</tr>
</tbody>
</table>

196. SCAN POINT BOARD

<table>
<thead>
<tr>
<th>Topic/Purpose</th>
<th>Message ID/ Software Release Range</th>
</tr>
</thead>
<tbody>
<tr>
<td>Requests that actions on the scan point board at the specified location be aborted.</td>
<td>ABT:SCAN</td>
</tr>
<tr>
<td></td>
<td>5E12 and later</td>
</tr>
<tr>
<td>Requests that a scan point board be diagnosed to determine whether it is in satisfactory working order.</td>
<td>DGN:SCAN</td>
</tr>
<tr>
<td></td>
<td>5E12 and later</td>
</tr>
<tr>
<td>Requests interactive diagnostics (exercises) of the scan point board (SCAN).</td>
<td>EX:SCAN</td>
</tr>
<tr>
<td></td>
<td>5E12 and later</td>
</tr>
<tr>
<td>Reads the state of a particular digital trunk to determine if the far end (originator) is on/off-hook.</td>
<td>ORD:SCAN-A</td>
</tr>
<tr>
<td></td>
<td>5E12 only</td>
</tr>
<tr>
<td>Reads the state of a particular digital trunk to determine if the far end (originator) is on/off-hook.</td>
<td>ORD:SCAN-B</td>
</tr>
<tr>
<td></td>
<td>5E13 - 5E15</td>
</tr>
<tr>
<td>Reads the state of a particular digital trunk to determine if the far end (originator) is on/off-hook.</td>
<td>ORD:SCAN-C</td>
</tr>
<tr>
<td></td>
<td>5E16(1) and later</td>
</tr>
<tr>
<td>Requests that a scan point board (SCAN) be removed from service.</td>
<td>RMV:SCAN</td>
</tr>
<tr>
<td></td>
<td>5E12 and later</td>
</tr>
<tr>
<td>Requests that a scan point board (SCAN) in the metallic service unit be conditionally or unconditionally restored to service.</td>
<td>RST:SCAN</td>
</tr>
<tr>
<td></td>
<td>5E12 and later</td>
</tr>
<tr>
<td>Requests that actions on the scan point board (SCAN) at the specified location be stopped.</td>
<td>STP:SCAN</td>
</tr>
<tr>
<td></td>
<td>5E12 and later</td>
</tr>
</tbody>
</table>

197. SCANNER AND SIGNAL DISTRIBUTOR

197.1 Scanner and Signal Distributor Controller

<table>
<thead>
<tr>
<th>Topic/Purpose</th>
<th>Message ID/ Software Release Range</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
</tr>
</tbody>
</table>
Diagnoses the specified scanner and signal distributor controller (SCSDC).

Exercises a scanner and signal distributor controller (SCSDC) in an interactive diagnostic mode.

Requests that the specified scanner and signal distributor controller (SCSDC) be removed from service.

Conditionally or unconditionally restores a scanner and signal distributor controller (SCSDC) to service.

---

197.2 Scanner and Signal Distributor Scan Points

<table>
<thead>
<tr>
<th>Topic/Purpose</th>
<th>Message ID/ Software Release Range</th>
</tr>
</thead>
<tbody>
<tr>
<td>Requests that transitions of a scanner and signal distributor (SCSD) scan point be reported.</td>
<td>ALW:SCSD 5E12 and later</td>
</tr>
<tr>
<td>Requests that reporting of transitions of a scanner and signal distributor (SCSD) scan point be inhibited.</td>
<td>INH:SCSD 5E12 and later</td>
</tr>
<tr>
<td>Requests the inhibit status and the state of scanner and signal distributor (SCSD) scan points.</td>
<td>OP:SCSD 5E12 and later</td>
</tr>
<tr>
<td>Requests that one of four distribution operations be performed on a scanner and signal distributor (SCSD) distribute point.</td>
<td>ORD:SCSD 5E12 and later</td>
</tr>
</tbody>
</table>

198. SELECTIVE INCOMING LOAD CONTROL

<table>
<thead>
<tr>
<th>Topic/Purpose</th>
<th>Message ID/ Software Release Range</th>
</tr>
</thead>
<tbody>
<tr>
<td>Requests that the transmission of dynamic overload control (DOC) signals and the application of selective incoming load control (SILC) be allowed.</td>
<td>ALW:DSILC 5E12 and later</td>
</tr>
<tr>
<td>Requests that a trunk group be assigned to selective incoming load control (SILC) treatment.</td>
<td>ASGN:SILC 5E12 and later</td>
</tr>
<tr>
<td>Requests that a trunk group be removed from selective incoming load control (SILC) treatment with an option to clear the entire list.</td>
<td>CLR:SILC 5E12 and later</td>
</tr>
<tr>
<td>Requests that the transmission of dynamic overload control (DOC) signals and the application of selective incoming load control (SILC) be inhibited.</td>
<td>INH:DSILC 5E12 and later</td>
</tr>
<tr>
<td>Request a list of all trunk groups assigned to selective incoming load control (SILC) treatment, SILC treatment inhibit, and SILC activation state.</td>
<td>OP:SILC 5E12 and later</td>
</tr>
</tbody>
</table>

199. SERVICE ANNOUNCEMENT SYSTEM

<table>
<thead>
<tr>
<th>Topic/Purpose</th>
<th>Message ID/ Software Release Range</th>
</tr>
</thead>
<tbody>
<tr>
<td>Aborts the specified actions on the service announcement system (SAS) unit.</td>
<td>ABT:SAS 5E12 and later</td>
</tr>
<tr>
<td>Allows hardware checks in a service announcement system (SAS) unit to occur.</td>
<td>ALW:HDW-SAS 5E12 and later</td>
</tr>
<tr>
<td>Removes and diagnoses a service announcement system (SAS) unit to determine whether it is in satisfactory working order.</td>
<td>DGN:SAS 5E12 and later</td>
</tr>
<tr>
<td>Interactively diagnoses (exercises) the service announcement system (SAS) unit.</td>
<td>EX:SAS 5E12 and later</td>
</tr>
<tr>
<td>Inhibits hardware checks in a service announcement system (SAS) unit.</td>
<td>INH:HDW-SAS 5E12 and later</td>
</tr>
<tr>
<td>Requests that a service announcement system (SAS) unit be removed from service.</td>
<td>RMV:SAS 5E12 and later</td>
</tr>
<tr>
<td>Conditionally or unconditionally restores a service announcement system (SAS) unit to service.</td>
<td>RST:SAS 5E12 and later</td>
</tr>
<tr>
<td>Requests that the specified actions on the service announcement system (SAS) unit be stopped.</td>
<td>STP:SAS 5E12 and later</td>
</tr>
</tbody>
</table>

200. SIGNALING
### 201. SIGNALING SYSTEM 7

<table>
<thead>
<tr>
<th>Topic/Purpose</th>
<th>Message ID/ Software Release Range</th>
</tr>
</thead>
<tbody>
<tr>
<td>Allows the printing of the ISUP/BICC abnormal acknowledgement output message.</td>
<td>ALW:S7ACK 5E15 and later</td>
</tr>
<tr>
<td>To allow viewing of CCSMTCE messages.</td>
<td>ALW:S7RPT 5E15 and later</td>
</tr>
<tr>
<td>To Allow demand or automatic periodic PCI7GR cross checking to run.</td>
<td>ALW:S7XCHK 5E15 and later</td>
</tr>
<tr>
<td>Activates an observation scope for all selected blocking, reset, unblocking, continuity, circuit query, and circuit validation CCSMTCE messages.</td>
<td>EXC:S7RPT 5E15 and later</td>
</tr>
<tr>
<td>Execute a demand cross check (S7XCHK) request.</td>
<td>EXC:S7XCHK 5E15 and later</td>
</tr>
<tr>
<td>Inhibits the printing of the ISUP/BICC abnormal acknowledgement output message.</td>
<td>INH:S7ACK 5E15 and later</td>
</tr>
<tr>
<td>Stops observation of SS7 messages, clears any previous observation scope and observation types, and inhibits any further observations.</td>
<td>INH:S7RPT 5E15 and later</td>
</tr>
<tr>
<td>Inhibit demand or automatic periodic PCI7GR cross check from running.</td>
<td>INH:S7XCHK 5E15 and later</td>
</tr>
<tr>
<td>Requests the status of the ISUP/BICC abnormal acknowledgement output message.</td>
<td>OP:S7ACK 5E15 and later</td>
</tr>
<tr>
<td>Requests the current status of all observations.</td>
<td>OP:S7RPT 5E15 and later</td>
</tr>
<tr>
<td>Determines whether the PCI7GR cross check running is inhibited or allowed for the entire office.</td>
<td>OP:S7XCHK 5E15 and later</td>
</tr>
<tr>
<td>Requests the output of signaling system 7 (SS7) trunk data matching specified characteristics.</td>
<td>OP:SS7-A 5E12 - 5E13</td>
</tr>
<tr>
<td>Requests the output of signaling system 7 (SS7) trunk data matching specified characteristics.</td>
<td>OP:SS7-B 5E14 only</td>
</tr>
<tr>
<td>Requests the output of signaling system 7 (SS7) trunk data matching specified characteristics.</td>
<td>OP:SS7-C 5E15 and later</td>
</tr>
<tr>
<td>Selects and modifies the observation type(s) for the whole office.</td>
<td>SET:S7RPT</td>
</tr>
<tr>
<td>Topic/Purpose</td>
<td>Message ID/ Software Release Range</td>
</tr>
<tr>
<td>------------------------------------------------------------------------------</td>
<td>----------------------------------</td>
</tr>
<tr>
<td>Terminates an observation scope for all selected blocking, reset, unblocking, continuity, circuit query, and circuit validation CCSMTCE messages.</td>
<td>STP:S7RPT 5E15 and later</td>
</tr>
<tr>
<td>Request that the active PCI7GR cross check request be stopped.</td>
<td>STP:S7XCHK 5E15 and later</td>
</tr>
<tr>
<td>Requests that the processing and output of the signaling system 7 (SS7) trunk data request or task, OP:SS7, be stopped.</td>
<td>STP:SS7 5E12 and later</td>
</tr>
</tbody>
</table>

## 201.1 Common Channel Signaling System 7

### CLR:CCS-SRST
Clears the status of a route making it available, and stops the signaling route set test (SRST) for the route.

### INIT:SCCP
Requests an initialization of named table(s) in the selected common channel signaling (CCS) global switching module (GSM).

### OP:CCS-ACDPC
Requests the linkset or combined linkset servicing each accessible destination point code (DPC) for the common channel signaling (CCS) global switching module (GSM).

### OP:CCS-ACTLK
Requests the number of currently active (in service) member(s) in each signaling linkset on a common channel signaling (CCS) global switching module (GSM).

### OP:CCS-CLS
Requests status information of all members of one or more combined link sets (CLoSs) on a given common channel signaling (CCS) global switching module (GSM).

### OP:CCS-DPC
Requests status information for one or more destination point codes (DPCs) associated with a given common channel signaling (CCS) global switching module (GSM).

### OP:CCS-DPCLS
Requests a report of the destination point codes (DPCs) currently served by a specified SS7 linkset or combined linkset on a common channel signaling (CCS) global switching module (GSM).

### OP:CCS-GSM-A
Outputs for each global switching modules (GSM) the common channel signaling (CCS) protocol type and status of the signaling links.

### OP:CCS-GSM-B
Requests common channel signaling link (CCSLK) and internal CCS message transport (CMT) summary status on one/more global switching modules (GSMs).

### OP:CCS-LSCLS
Generates the report of the combined link set of which a given link set is a member.

### OP:CCS-MON
Requests the monitoring action to be turned on, turned off, or the status of links and/or members and/or flow control management (FCM) and/or traffic flow management (TFM) for specified monitoring masks (or a combination thereof).

### OP:CCS-OCP
Requests information about specific originating point codes that are provisioned.

### OP:CCS-ROUTE
Requests specific routing status.

### OP:CCS-SMG
Requests status information for one or more signaling connection control part (SCCP) subsystem(s) at one or more destination point codes (DPCs).

### OP:CCS-SLS
Requests a display of the normal and current signaling link selection (SLS) distributions for all links currently carrying traffic to the specified destination point code (DPC) or a display of the normal and current SLS distribution of a link for a specific linkset (LS) or combined linkset (CLS) specified.

### OP:CCS-TPC
Requests the translation point code (TPC) for a single or range of translation types to be displayed.

### OP:ST-CCSLK
Requests the status of one or more common channel signaling (CCS) links.

### OP:ST-MD
Requests status of the common channel signaling (CCS) message delivery (MD) network.

### OP:TPC
Requests that translation point codes (TPCs) for the specified translation type (TT) be displayed.

### RMV:CCSLK
Removes a common channel signaling (CCS) link(s) from service by deactivating, inhibiting, or blocking the link(s).

### RMV:MD
Removes a common channel signaling (CCS) intra-global switching module (GSM) message delivery (MD) path internal to the GSM.

### RST:CCSLK
Restores service to a common channel signaling (CCS) link(s) by removing the deactivating, inhibiting, or blocking status on that link(s).
201.2 Common Channel Signaling Protocol Monitoring

<table>
<thead>
<tr>
<th>Topic/Purpose</th>
<th>Message ID/ Software Release Range</th>
</tr>
</thead>
<tbody>
<tr>
<td>Requests that a protocol monitoring session be started for the ISUP or TCAP</td>
<td>EXC:PMCCS-A</td>
</tr>
<tr>
<td>protocol based on the values of particular parameters within the message.</td>
<td>5E12 - 5E14</td>
</tr>
<tr>
<td>Requests that a protocol monitoring session be started for the ISUP, BICC,</td>
<td>EXC:PMCCS-B</td>
</tr>
<tr>
<td>or TCAP protocol based on the values of particular parameters within the</td>
<td>5E15 and later</td>
</tr>
<tr>
<td>message.</td>
<td></td>
</tr>
<tr>
<td>Requests a list of active CCS protocol monitoring (PM) sessions and</td>
<td>OP:PMCCS</td>
</tr>
<tr>
<td>provides status of the PM processors.</td>
<td>5E12 and later</td>
</tr>
<tr>
<td>Requests a specific CCS protocol monitoring (PM) session or all CCS</td>
<td>STP:PMCCS</td>
</tr>
<tr>
<td>protocol monitoring sessions be stopped.</td>
<td>5E12 and later</td>
</tr>
</tbody>
</table>

202. SIGNALING LINK

<table>
<thead>
<tr>
<th>Topic/Purpose</th>
<th>Message ID/ Software Release Range</th>
</tr>
</thead>
<tbody>
<tr>
<td>Requests a change in the minor state of a signaling link (SLK).</td>
<td>CHG:SLK</td>
</tr>
<tr>
<td></td>
<td>5E12 and later</td>
</tr>
<tr>
<td>Requests that the status of the alarm inhibit flag of a signaling link (SLK)</td>
<td>INH:SLK</td>
</tr>
<tr>
<td>be set, reset, or listed.</td>
<td>5E12 and later</td>
</tr>
<tr>
<td>Requests that the link monitor be turned on or off.</td>
<td>MON:SLK</td>
</tr>
<tr>
<td></td>
<td>5E12 and later</td>
</tr>
<tr>
<td>Requests status information for the signaling links (SLKs).</td>
<td>OP:SLK</td>
</tr>
<tr>
<td></td>
<td>5E12 and later</td>
</tr>
<tr>
<td>Requests that a change be made to a new key on an encrypted signaling link</td>
<td>REKEY:SLK</td>
</tr>
<tr>
<td>(SLK).</td>
<td>5E12 and later</td>
</tr>
<tr>
<td>Requests a status report of all signaling link (SLK) inhibit alarm flags</td>
<td>REPT:SLK</td>
</tr>
<tr>
<td>set (ON).</td>
<td>5E12 and later</td>
</tr>
</tbody>
</table>

203. SIGNALING CONNECTION CONTROL PART
## 204. SIGNALING NETWORK ADMINISTRATOR TIME

<table>
<thead>
<tr>
<th>Topic/Purpose</th>
<th>Message ID/ Software Release Range</th>
</tr>
</thead>
<tbody>
<tr>
<td>Requests the current view of the common channel interoffice signaling (CCIS) network administration time (SNAT).</td>
<td>OP:SNAT 5E12 and later</td>
</tr>
</tbody>
</table>

## 205. SMALL COMPUTER SYSTEM INTERFACE

<table>
<thead>
<tr>
<th>Topic/Purpose</th>
<th>Message ID/ Software Release Range</th>
</tr>
</thead>
<tbody>
<tr>
<td>Download the pumpcode to the small computer system interface (SCSI) disk file controller (DFC).</td>
<td>LOAD:DFC-PUMP 5E12 and later</td>
</tr>
<tr>
<td>Load a specified pumpcode file into the SCSI disk file controller's (DFC's) random access memory (RAM) area.</td>
<td>LOAD:DFC-RAM 5E12 and later</td>
</tr>
<tr>
<td>Removes the specified SCSI bus (SBUS) connected to a SCSI disk file controller (DFC).</td>
<td>RMV:SBUS 5E12 and later</td>
</tr>
<tr>
<td>Requests that a SCSI bus (SBUS) be restored to service.</td>
<td>RST:SBUS 5E12 and later</td>
</tr>
</tbody>
</table>

## 206. SOFTWARE CHECK

<table>
<thead>
<tr>
<th>Topic/Purpose</th>
<th>Message ID/ Software Release Range</th>
</tr>
</thead>
<tbody>
<tr>
<td>Allows the software error handling routines to incorporate system initialization into their error recovery procedures as a means of handling administrative module (AM) software sanity problems.</td>
<td>ALW:SFTCHK 5E12 and later</td>
</tr>
<tr>
<td>Requests that all software error checks be allowed in one or more switching modules (SMs), or a specified communication module processor (CMP).</td>
<td>ALW:SFTCHK-SM-A 5E12 - 5E13</td>
</tr>
<tr>
<td>Requests that all software error checks be allowed in one or more switching modules (SMs), or a specified communication module processor (CMP).</td>
<td>ALW:SFTCHK-SM-B 5E14 and later</td>
</tr>
<tr>
<td>Requests that the reporting of software resource measurement (SRM) information be allowed for a switching module (SM).</td>
<td>ALW:SRM 5E12 and later</td>
</tr>
<tr>
<td>Request that the use of system initialization be inhibited when handling administrative module (AM) software errors.</td>
<td>INH:SFTCHK 5E12 and later</td>
</tr>
<tr>
<td>Requests that all software error checks be inhibited in one or more switching modules (SMs), or a specified communication module processor (CMP).</td>
<td>INH:SFTCHK-SM-A 5E12 only</td>
</tr>
<tr>
<td>Requests that all software error checks be inhibited in one or more switching modules (SMs), or a specified communication module processor (CMP).</td>
<td>INH:SFTCHK-SM-B 5E13 only</td>
</tr>
<tr>
<td>Requests that all software error checks be inhibited in one or more switching modules (SMs), or a specified communication module processor (CMP).</td>
<td>INH:SFTCHK-SM-C 5E14 and later</td>
</tr>
<tr>
<td>Requests that the reporting of software resource measurement information be inhibited for a switching module (SM).</td>
<td>INH:SRM 5E12 and later</td>
</tr>
<tr>
<td>Requests a list of all inhibited administrative module error conditions, including ERRINT, ERRSRC, HDWCHK, and SFTCHK.</td>
<td>OP:ERRCHK 5E12 and later</td>
</tr>
</tbody>
</table>

## 207. STATIC OFFICE DEPENDENT DATA

<table>
<thead>
<tr>
<th>Topic/Purpose</th>
<th>Message ID/ Software Release Range</th>
</tr>
</thead>
<tbody>
<tr>
<td>Requests that either the full or incremental static office-dependent data (SODD) audit, which is to execute automatically, be allowed.</td>
<td>ALW:AUD-SODD 5E12 and later</td>
</tr>
<tr>
<td>Format 1 restarts a full or incremental static office-dependent data (SODD) audit that was previously executing but was stopped for some reason, provided that the conditions permit it</td>
<td>EXC:AUD-SODD 5E12 and later</td>
</tr>
<tr>
<td>Topic/Purpose</td>
<td>Message ID/Software Release Range</td>
</tr>
<tr>
<td>------------------------------------------------------------------------------</td>
<td>-----------------------------------</td>
</tr>
<tr>
<td>Requests an audit of the redundant (RED) relations to check for split translations in the static office-dependent data (SODD)</td>
<td>EXC:SODD-RED</td>
</tr>
<tr>
<td>Displays the relation currently being audited by the redundant static office dependent data (SODD) audit (invoked by EXC:SODD-RED)</td>
<td>EXC:SODD-RED-OP</td>
</tr>
<tr>
<td>Requests that the current static data audit be stopped.</td>
<td>EXC:SODD-STP</td>
</tr>
<tr>
<td>Requests that the execution of either the full or incremental static office-dependent data (SODD) audit be inhibited.</td>
<td>INH:AUD-SODD</td>
</tr>
<tr>
<td>Requests that one of the following be printed: the execution status of the static office-dependent data (SODD) audits; the status of the active SODD audit(s).</td>
<td>OP:AUD-SODD</td>
</tr>
<tr>
<td>Requests the status of the full or incremental static office-dependent data (SODD) audit.</td>
<td>OP:ST-AUD-SODD</td>
</tr>
<tr>
<td>Schedules the day, time, and duration for the full static office-dependent data (SODD) audit.</td>
<td>SCHED:AUD-SODD</td>
</tr>
<tr>
<td>Requests the termination of an executing static office-dependent data (SODD) audit as indicated with the parameter list.</td>
<td>STP:AUD-SODD</td>
</tr>
</tbody>
</table>

### 208. STATUS

<table>
<thead>
<tr>
<th>Topic/Purpose</th>
<th>Message ID/Software Release Range</th>
</tr>
</thead>
<tbody>
<tr>
<td>Requests the output of the print mode, overload status, and initialization summary information for the specified packet interface (PI) of the module controller time slot interchanger (MCTSI) or packet switching unit protocol handler (PSUPH).</td>
<td>OP:ST</td>
</tr>
<tr>
<td>Requests that the communication status between the Digital Cellular Switch and the AUTOPLEX® Executive Cellular Processor be queried.</td>
<td>OP:ST-APX</td>
</tr>
<tr>
<td>Requests a report of the status of a specific audit, all audits, or all inhibited audits for a particular switching module (SM) or range of SMs.</td>
<td>OP:ST-AUD-SM-A</td>
</tr>
<tr>
<td>Requests a report of the status of a specific audit, all audits, or all inhibited audits for a particular switching module (SM) or range of SMs.</td>
<td>OP:ST-AUD-SM-B</td>
</tr>
<tr>
<td>Requests the status of the full or incremental static office-dependent data (SODD) audit.</td>
<td>OP:ST-AUD-SODD</td>
</tr>
<tr>
<td>Requests a report of the on/off status of the direct signaling events (DSE) trapping and printing.</td>
<td>OP:ST-DSE</td>
</tr>
<tr>
<td>Requests a list of environments supporting the requested audit.</td>
<td>OP:ST-ENV-AUD</td>
</tr>
<tr>
<td>Requests a report of the on/off status of the integrated services digital network (ISDN) user part (ISUP) events trapping and printing.</td>
<td>OP:ST-ISUP</td>
</tr>
<tr>
<td>Requests information from internal registers of the link interface (LI) or the specified office network and timing complex (ONTC) side.</td>
<td>OP:ST-LI</td>
</tr>
<tr>
<td>Requests the print status of all parts of the 24-hour plant report.</td>
<td>OP:ST-PLNT24</td>
</tr>
<tr>
<td>Requests the status of active processes by specific class.</td>
<td>OP:ST-PROC</td>
</tr>
<tr>
<td>Requests the output of the current link status and other information of a single packet switch unit (PSU) link (PSLNK); or the output of the current status of a group of PSU links.</td>
<td>OP:ST-PSLNK-A</td>
</tr>
<tr>
<td>Requests the output of the current link status and other information of a single packet switch unit (PSU) link (PSLNK); or the output of the current status of a group of PSU links.</td>
<td>OP:ST-PSLNK-B</td>
</tr>
<tr>
<td>Requests status for quad-link packet switch protocol handler links (QPHLNKs) associated with a particular global switching module (GSM).</td>
<td>OP:ST-QPHLNK</td>
</tr>
<tr>
<td>Requests status for quad-link packet switch protocol handler (QPH) QPIPEs on a HOST global switching module (GSM).</td>
<td>OP:ST-QPHPIPE</td>
</tr>
<tr>
<td>Requests the status of all sections of the 30-minute traffic report.</td>
<td>OP:ST-TRFC30</td>
</tr>
<tr>
<td>Requests the output of the current status history for a specified trunk, line, data link, or Operator Services Position System port (OSPSPORT).</td>
<td>OP:STATUS-A</td>
</tr>
<tr>
<td>Requests the output of the current status history for a specified trunk, line, data link, or operator services position system port (OSPSPORT).</td>
<td>OP:STATUS-B</td>
</tr>
<tr>
<td>Requests the output of the current status history for a specified trunk, line, data link, or operator services position system port (OSPSPORT).</td>
<td>OP:STATUS-C</td>
</tr>
</tbody>
</table>
### Operator Services Position System Port (OSPSPORT)

- **Requests the output of the current status history for a specified trunk, line, data link, or operator services position system port (OSPSPORT).**
  
<table>
<thead>
<tr>
<th>Message ID/ Software Release Range</th>
<th>Topic/Purpose</th>
</tr>
</thead>
<tbody>
<tr>
<td>OP:STATUS-D 5E15 only</td>
<td></td>
</tr>
<tr>
<td>OP:STATUS-PS 5E16(1) and later</td>
<td></td>
</tr>
</tbody>
</table>

### 209. Stuck Coin Failure

- **Requests a list of all stuck coin failures since the last time the periodic list was printed.**

<table>
<thead>
<tr>
<th>Message ID/ Software Release Range</th>
<th>Topic/Purpose</th>
</tr>
</thead>
<tbody>
<tr>
<td>OP:SCF 5E12 and later</td>
<td></td>
</tr>
</tbody>
</table>

### 210. Subscriber Line Busy

- **Queries the digital network unit - Synchronous Optical Network (SONET) (DNU-S) for the expected and received signal labels for Synchronous Transport Signal Facility (STS FAC).**

<table>
<thead>
<tr>
<th>Message ID/ Software Release Range</th>
<th>Topic/Purpose</th>
</tr>
</thead>
<tbody>
<tr>
<td>OP:SL-A 5E12 only</td>
<td></td>
</tr>
<tr>
<td>OP:SL-B 5E13 - 5E15</td>
<td></td>
</tr>
<tr>
<td>OP:SL-C 5E16(1) and later</td>
<td></td>
</tr>
</tbody>
</table>

### 211. Subscriber Line Instrument Measurement

- **Requests that actions on the subscriber line instrument measurement (SLIM) board be aborted.**

<table>
<thead>
<tr>
<th>Message ID/ Software Release Range</th>
<th>Topic/Purpose</th>
</tr>
</thead>
<tbody>
<tr>
<td>ABT:SLIM 5E12 and later</td>
<td></td>
</tr>
<tr>
<td>ABT:TSESS 5E12 and later</td>
<td></td>
</tr>
<tr>
<td>ALW:TSESS 5E12 and later</td>
<td></td>
</tr>
<tr>
<td>DGN:SLIM 5E12 and later</td>
<td></td>
</tr>
<tr>
<td>EX:SLIM 5E12 and later</td>
<td></td>
</tr>
<tr>
<td>INH:TSESS 5E12 and later</td>
<td></td>
</tr>
<tr>
<td>OP:TSESS 5E12 and later</td>
<td></td>
</tr>
<tr>
<td>OP:TSESS-DS 5E12 and later</td>
<td></td>
</tr>
<tr>
<td>RMV:SLIM 5E12 and later</td>
<td></td>
</tr>
<tr>
<td>RST:SLIM 5E12 and later</td>
<td></td>
</tr>
<tr>
<td>STP:SLIM 5E12 and later</td>
<td></td>
</tr>
</tbody>
</table>

### 212. Subscriber Loop Carrier

#### 212.1 SLG®-96 Digital Carrier Line Unit

- **Aborts actions on a SLG®-96 digital carrier line unit (DCLU).**

<table>
<thead>
<tr>
<th>Message ID/ Software Release Range</th>
<th>Topic/Purpose</th>
</tr>
</thead>
<tbody>
<tr>
<td>ABT:DCLU 5E12 and later</td>
<td></td>
</tr>
</tbody>
</table>
Requests that a **SLC® 96** digital carrier line unit (DCLU) be removed and diagnosed.  
**DGN:** DCLU  
5E12 and later

Interactively diagnoses (exercises) a **SLC® 96** digital carrier line unit (DCLU).  
**EX:** DCLU  
5E12 and later

Requests a listing of the unassigned (UNA) lines, the integrated **SLC®** (ISLC) lines, and/or the integrated digital carrier unit (IDCU) lines within a specified range of directory numbers, **SLC®** line equipment numbers (SLENs), or IDCU line equipment numbers (ILENs).  
**OP:** LISTOTO  
5E12 and later

Requests that a **SLC® 96** digital carrier line unit (DCLU) be removed from service.  
**RMV:** DCLU  
5E12 and later

Requests that a **SLC® 96** digital carrier line unit (DCLU) be restored to service.  
**RST:** DCLU  
5E12 and later

Requests that actions on a specified **SLC® 96** digital carrier line unit (DCLU) stop.  
**STP:** DCLU  
5E12 and later

### 213. **SLC®-96** Digital Facility Interface

<table>
<thead>
<tr>
<th>Topic/Purpose</th>
<th>Message ID/ Software Release Range</th>
</tr>
</thead>
<tbody>
<tr>
<td>Requests that actions on a <strong>SLC® 96</strong> digital facility interface (SDFI).</td>
<td><strong>ABT:</strong> SDFI</td>
</tr>
<tr>
<td></td>
<td>5E12 and later</td>
</tr>
<tr>
<td>Allows hardware error checks to be performed on the specified <strong>SLC® 96</strong></td>
<td><strong>ALW:</strong> HDW-SDFI</td>
</tr>
<tr>
<td>digital facility interface (SDFI).</td>
<td>5E12 and later</td>
</tr>
<tr>
<td>Requests that a <strong>SLC® 96</strong> digital facility interface (SDFI) circuit be</td>
<td><strong>DGN:</strong> SDFI</td>
</tr>
<tr>
<td>removed and diagnosed.</td>
<td>5E12 and later</td>
</tr>
<tr>
<td>Interactively diagnoses (exercises) a <strong>SLC® 96</strong> digital facility</td>
<td><strong>EX:</strong> SDFI</td>
</tr>
<tr>
<td>interface (SDFI).</td>
<td>5E12 and later</td>
</tr>
<tr>
<td>Inhibits the hardware error checks performed on the specified <strong>SLC® 96</strong></td>
<td><strong>INH:</strong> HDW-SDFI</td>
</tr>
<tr>
<td>digital facility interface (SDFI).</td>
<td>5E12 and later</td>
</tr>
<tr>
<td>Requests that a <strong>SLC® 96</strong> digital facility interface (SDFI) be removed</td>
<td><strong>RMV:</strong> SDFI</td>
</tr>
<tr>
<td>from service.</td>
<td>5E12 and later</td>
</tr>
<tr>
<td>Restores either conditionally or unconditionally a <strong>SLC® 96</strong> digital</td>
<td><strong>RST:</strong> SDFI</td>
</tr>
<tr>
<td>facility interface (SDFI) to service.</td>
<td>5E12 and later</td>
</tr>
<tr>
<td>Requests that actions on a specified <strong>SLC® 96</strong> digital facility interface</td>
<td><strong>STP:</strong> SDFI</td>
</tr>
<tr>
<td>(SDFI) be stopped.</td>
<td>5E12 and later</td>
</tr>
</tbody>
</table>

### 214. **SWITCHING CONTROL CENTER**

<table>
<thead>
<tr>
<th>Topic/Purpose</th>
<th>Message ID/ Software Release Range</th>
</tr>
</thead>
<tbody>
<tr>
<td>Outputs the current firmware version of the CM3 ONTC or CM3 MSGS requested</td>
<td><strong>OP:</strong> VERS</td>
</tr>
<tr>
<td>at the Master Control Center (MCC) and the Switching Control Center (SCC).</td>
<td>5E15 and later</td>
</tr>
</tbody>
</table>
| Requests that the specified Switching Control Center (SCC) data link subdevice be removed from service. | **RMV:** SCC  
|                                                                                   | 5E12 and later                           |
| Restores the specified Switching Control Center (SCC) data link subdevice to | **RST:** SCC                             |
| service.                                                                        | 5E12 and later                           |

### 215. **SWITCHING MODULE**

<table>
<thead>
<tr>
<th>Topic/Purpose</th>
<th>Message ID/ Software Release Range</th>
</tr>
</thead>
<tbody>
<tr>
<td>Allows a switching module (SM) audit to execute automatically or an audit</td>
<td><strong>ALW:</strong> AUD-SM</td>
</tr>
<tr>
<td>cycle to execute routinely on one SM or a range of SMs.</td>
<td>5E12 and later</td>
</tr>
<tr>
<td>Permits the redistribution of call pick up (CPU) queues from one switching</td>
<td><strong>ALW:</strong> CPUQADM</td>
</tr>
<tr>
<td>module (SM) to another SM based on the resources available per SM.</td>
<td>5E12 and later</td>
</tr>
<tr>
<td>Requests that the per-call test failure (PCTF) verbose mode be allowed.</td>
<td><strong>ALW:</strong> PCTF</td>
</tr>
<tr>
<td>Requests that generic utility WHEN breakpoint clauses in the switching module</td>
<td><strong>ALW:</strong> UT-SM</td>
</tr>
<tr>
<td>(SM) be allowed or enabled.</td>
<td>5E12 and later</td>
</tr>
<tr>
<td>Requests a switching module (SM) audit to be run in one SM or a range of SMs.</td>
<td><strong>AUD:</strong> SM</td>
</tr>
<tr>
<td></td>
<td>5E12 and later</td>
</tr>
</tbody>
</table>

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<table>
<thead>
<tr>
<th>Action</th>
<th>Description</th>
<th>Availability</th>
</tr>
</thead>
<tbody>
<tr>
<td>Requests that one specific WHEN clause or all WHEN clauses be removed from both the application program and the memory of the switching module (SM).</td>
<td>CLR:UT-SM</td>
<td>5E12 and later</td>
</tr>
<tr>
<td>Requests that a value be copied into an address, register, variable, or utility variable of the switching module (SM), and can perform specific operations.</td>
<td>COPY:UT-SM-A</td>
<td>5E12 - 5E16(1)</td>
</tr>
<tr>
<td>Requests that a value be copied into an address, register, variable, or utility variable of the switching module (SM), and can perform specific operations.</td>
<td>COPY:UT-SM-B</td>
<td>5E16(2) and later</td>
</tr>
<tr>
<td>Requests that the contents of one or more sequential memory locations in the specified switching module (SM) be dumped.</td>
<td>DUMP:UT-SM-A</td>
<td>5E12 - 5E15</td>
</tr>
<tr>
<td>Requests that the contents of one or more sequential memory locations in the specified switching module (SM) be dumped.</td>
<td>DUMP:UT-SM-B</td>
<td>5E16(1) only</td>
</tr>
<tr>
<td>Requests that the contents of one or more sequential memory locations in the specified switching module (SM) be dumped.</td>
<td>DUMP:UT-SM-C</td>
<td>5E16(2) and later</td>
</tr>
<tr>
<td>Requests that a constant or variable in a switching module’s (SM) memory be compared against another constant or variable in the SM memory.</td>
<td>IF:UT-SM-A</td>
<td>5E12 - 5E16(1)</td>
</tr>
<tr>
<td>Requests that a constant or variable in a switching module’s (SM) memory be compared against another constant or variable in the SM memory.</td>
<td>IF:UT-SM-B</td>
<td>5E16(2) and later</td>
</tr>
<tr>
<td>Requests that the end of an IF-ELSE statement be signified in the switching module (SM) and must be used together with the IF:UT-SM input message.</td>
<td>IF:UT-SM-ENDIF</td>
<td>5E12 and later</td>
</tr>
<tr>
<td>Requests that the per-call test failure (PCTF) verbose mode be inhibited.</td>
<td>INH:PCTF</td>
<td>5E12 and later</td>
</tr>
<tr>
<td>Requests that a specific generic utility WHEN clause in the switching module (SM), or all such active clauses, be inhibited.</td>
<td>INH:UT-SM</td>
<td>5E12 and later</td>
</tr>
<tr>
<td>Requests initialization of the selected switching modules (SMs) at the specified level.</td>
<td>INIT:SM-A</td>
<td>5E12 and later</td>
</tr>
<tr>
<td>Requests initialization of the selected switching modules (SMs) at the specified level.</td>
<td>INIT:SM-B</td>
<td>5E13 only</td>
</tr>
<tr>
<td>Requests initialization of the selected switching modules (SMs) at the specified level.</td>
<td>INIT:SM-C</td>
<td>5E14 and later</td>
</tr>
<tr>
<td>Requests a single process purge (SPP) of a named process in a selected switching module (SM).</td>
<td>INIT:SM-SPP</td>
<td>5E12 and later</td>
</tr>
<tr>
<td>Requests that a value(s) be loaded into the memory of the specified switching module (SM).</td>
<td>LOAD:UT-SM</td>
<td>5E12 and later</td>
</tr>
<tr>
<td>Requests the current configuration status (CFGSTAT) of switching module (SM) circuits.</td>
<td>OP:CFGSTAT-SM</td>
<td>5E12 and later</td>
</tr>
<tr>
<td>Requests a printout of all communication module (CM) units and switching modules (SMs) that are in the growth (GROW) or special growth (SGRO) equipage states, or the equipage state of an individual unit.</td>
<td>OP:EQSTAT-A</td>
<td>5E12 - 5E14</td>
</tr>
<tr>
<td>Requests a printout of all communication module (CM) units and switching modules (SMs) that are in the growth (GROW) or special growth (SGRO) equipage states, or the equipage state of an individual unit.</td>
<td>OP:EQSTAT-B</td>
<td>5E15 - 5E16(1)</td>
</tr>
<tr>
<td>Requests a printout of all communication module (CM) units and switching modules (SMs) that are in the growth (GROW) or special growth (SGRO) equipage states, or the equipage state of an individual unit.</td>
<td>OP:EQSTAT-C</td>
<td>5E16(2) and later</td>
</tr>
<tr>
<td>Requests a list of all per-call test failures (PCTFs) that have occurred in all switching modules (SMs), a range of SMs, or a particular SM since the last time the periodic list was printed.</td>
<td>OP:PCTF</td>
<td>5E12 and later</td>
</tr>
<tr>
<td>Requests a common channel interoffice signaling (CCIS) measurement report.</td>
<td>OP:SMR</td>
<td>5E12 and later</td>
</tr>
<tr>
<td>Requests information on switching modules (SMs) assigned to terminals using switching module system test (SMST) routing.</td>
<td>OP:SMST</td>
<td>5E12 and later</td>
</tr>
<tr>
<td>Requests that the terminal assigned to indicated switching modules (SMs) for switching module system test (SMST) routing be released.</td>
<td>RLS:SMST</td>
<td>5E12 and later</td>
</tr>
</tbody>
</table>
Requests that all output messages originating from the specified switching modules (SMs) be routed to the terminal at which this input message is entered in addition to other normal locations where such output would appear.

RTE:SMST
5E12 and later

To request a graceful stop of the currently printing per call test failure (PCTF) summary.

STP:PCTF
5E12 and later

Format 1 requests that a temporary generic utility breakpoint be defined using and address of an application program in the specified switching module (SM/SM-2000).

WHEN:UT-SM-A
5E12 - 5E16(1)

Format 1 requests that a temporary generic utility breakpoint be defined using and address of an application program in the specified switching module (SM/SM-2000).

WHEN:UT-SM-B
5E16(2) and later

## 215.1 Switching Module Peripheral Error

<table>
<thead>
<tr>
<th>Topic/Purpose</th>
<th>Message ID/ Software Release Range</th>
</tr>
</thead>
<tbody>
<tr>
<td>Requests that the verbose status in a single switching module (SM) or a range of SMs be cleared.</td>
<td>CLR:PERPH-SM 5E12 and later</td>
</tr>
<tr>
<td>Requests a summary of peripheral transient errors on switching modules (SMs).</td>
<td>OP:PERPH-SM-SUM 5E12 and later</td>
</tr>
<tr>
<td>Requests that the verbose status in a single switching module (SM) or a range of SMs be set.</td>
<td>SET:PERPH-SM 5E12 and later</td>
</tr>
</tbody>
</table>

## 215.2 Host Switching Module Digital Facility Interface

<table>
<thead>
<tr>
<th>Topic/Purpose</th>
<th>Message ID/ Software Release Range</th>
</tr>
</thead>
<tbody>
<tr>
<td>Requests that maintenance actions on the host switching module (HSM) digital facilities interface (HDFI) circuit be aborted.</td>
<td>ABT:HDFI 5E12 and later</td>
</tr>
<tr>
<td>Allows hardware error checks to be performed on the specified host switching module (HSM) digital facilities interface (HDFI) circuit.</td>
<td>ALW:HDW-HDFI 5E12 and later</td>
</tr>
<tr>
<td>Requests that automatic pump of one or more switching modules (SMs) or a selected communication module processor (CMP) be allowed on a major initialization (selective initialization or full initialization). This message cancels the effect of the INH:PUMP input message.</td>
<td>ALW:PUMP 5E14 and later</td>
</tr>
<tr>
<td>Requests that automatic pump of one or more switching modules (SMs) or a selected communication module processor (CMP) be allowed on a major initialization (selective initialization or full initialization).</td>
<td>ALW:PUMP-SM 5E12 - 5E13</td>
</tr>
<tr>
<td>Takes one or more switching modules (SMs) out of isolation.</td>
<td>CLR:ISOL-SM 5E12 and later</td>
</tr>
<tr>
<td>Clears the selected switching modules (SMs) from minimum mode (minmode) by resetting the appropriate SM inhibits and performing a full initialization.</td>
<td>CLR:MINMODE-SM-A 5E12 - 5E13</td>
</tr>
<tr>
<td>Clears the selected switching modules (SMs) from minimum mode (minmode) by resetting the appropriate SM inhibits and performing a full initialization.</td>
<td>CLR:MINMODE-SM-B 5E14 and later</td>
</tr>
<tr>
<td>Requests that a host switching module (HSM) digital facilities interface (HDFI) circuit be diagnosed to determine if it is in working order.</td>
<td>DGN:HDFI 5E12 and later</td>
</tr>
<tr>
<td>Performs maintenance exercises on the host switching module (HSM) digital facilities interface (HDFI) circuit.</td>
<td>EX:HDFI 5E12 and later</td>
</tr>
<tr>
<td>Inhibits the hardware error checks performed on the specified host switching module (HSM) digital facilities interface (HDFI) circuit.</td>
<td>INH:HDW-HDFI 5E12 and later</td>
</tr>
<tr>
<td>Requests that a host switching module (HSM) digital facilities interface (HDFI) circuit be removed from service.</td>
<td>RMV:HDFI 5E12 and later</td>
</tr>
<tr>
<td>Requests that a host switching module (HSM) digital facilities interface (HDFI) circuit be restored to service.</td>
<td>RST:HDFI 5E12 and later</td>
</tr>
<tr>
<td>Requests that a switching module (SM) or a range of SMs be isolated.</td>
<td>SET:ISOL-SM 5E12 and later</td>
</tr>
<tr>
<td>Requests that the common network interface (CNI) system be placed into min mode.</td>
<td>SET:MINMODE-CNI 5E12 and later</td>
</tr>
<tr>
<td>Requests that the selected switching module (SMs) be placed in minimum mode (minmode).</td>
<td>SET:MINMODE-SM-A 5E12 - 5E13</td>
</tr>
<tr>
<td>Requests that the selected switching module (SMs) be placed in minimum mode (minmode).</td>
<td>SET:MINMODE-SM-B 5E14 and later</td>
</tr>
</tbody>
</table>
Requests that maintenance actions on the host switching module (HSM) digital facilities interface (HDFI) circuit be stopped.

| STP               | HDFI   | 5E12 and later |

Requests that the automatic pump of one or more switching modules (SMs) or a selected communication module processor (CMP) be inhibited on a major initialization (selective initialization or full initialization).

| INH              | PUMP-SM-A | 5E12 - 5E13 |

Requests that the automatic pump of one or more switching modules (SMs) or a selected communication module processor (CMP) be inhibited on a major initialization (selective initialization or full initialization).

| INH              | PUMP-SM-B | 5E14 and later |

216. SYNCHRONOUS DATA LINK

<table>
<thead>
<tr>
<th>Topic/Purpose</th>
<th>Message ID/ Software Release Range</th>
</tr>
</thead>
<tbody>
<tr>
<td>Requests that the specified synchronous data link (SDL) subdevice be removed from service.</td>
<td>RMV:SDL</td>
</tr>
<tr>
<td></td>
<td>5E12 and later</td>
</tr>
<tr>
<td>Restores the specified synchronous data link (SDL) subdevice to service.</td>
<td>RST:SDL</td>
</tr>
<tr>
<td></td>
<td>5E12 and later</td>
</tr>
</tbody>
</table>

216.1 Synchronous Data Link Controller

<table>
<thead>
<tr>
<th>Topic/Purpose</th>
<th>Message ID/ Software Release Range</th>
</tr>
</thead>
<tbody>
<tr>
<td>Diagnoses the specified synchronous data link controller (SDLC).</td>
<td>DGN:SDLC</td>
</tr>
<tr>
<td></td>
<td>5E12 and later</td>
</tr>
<tr>
<td>Exercises a synchronous data link controller (SDLC) in an interactive diagnostic mode.</td>
<td>EX:SDLC</td>
</tr>
<tr>
<td></td>
<td>5E12 and later</td>
</tr>
<tr>
<td>Requests that the specified synchronous data link controller (SDLC) be removed from service.</td>
<td>RMV:SDL</td>
</tr>
<tr>
<td></td>
<td>5E12 and later</td>
</tr>
<tr>
<td>Conditionally or unconditionally restores a synchronous data link controller (SDLC) to service.</td>
<td>RST:SDL</td>
</tr>
<tr>
<td></td>
<td>5E12 and later</td>
</tr>
</tbody>
</table>

217. SYNCHRONOUS TRANSPORT SIGNAL

<table>
<thead>
<tr>
<th>Topic/Purpose</th>
<th>Message ID/ Software Release Range</th>
</tr>
</thead>
<tbody>
<tr>
<td>Requests that the currently executing maintenance action on a synchronous transport signal - level 1 (STS1) be aborted.</td>
<td>ABT:STS1</td>
</tr>
<tr>
<td></td>
<td>5E16(1) and later</td>
</tr>
<tr>
<td>Requests that the currently executing maintenance action on a synchronous transport signal - level 3 concatenated (STS3C) facility be aborted.</td>
<td>ABT:STS3C</td>
</tr>
<tr>
<td></td>
<td>5E16(2) and later</td>
</tr>
<tr>
<td>Requests that a synchronous transport signal - level 1 (STS1) be removed from service either conditionally, by waiting for it to become idle, or unconditionally, by preempting the current user.</td>
<td>RMV:STS1</td>
</tr>
<tr>
<td></td>
<td>5E16(1) and later</td>
</tr>
<tr>
<td>Requests that a synchronous transport signal - level 3 concatenated (STS3C) facility be removed from service either conditionally, by waiting for it to become idle, or unconditionally, by preempting the current user.</td>
<td>RMV:STS3C</td>
</tr>
<tr>
<td></td>
<td>5E16(2) and later</td>
</tr>
<tr>
<td>Requests that a synchronous transport signal - level 1 (STS1) be restored to service.</td>
<td>RST:STS1</td>
</tr>
<tr>
<td></td>
<td>5E16(1) and later</td>
</tr>
<tr>
<td>Requests that a synchronous transport signal - level 3 concatenated (STS3C) facility be restored to service.</td>
<td>RST:STS3C</td>
</tr>
<tr>
<td></td>
<td>5E16(2) and later</td>
</tr>
<tr>
<td>Requests that the currently executing maintenance action on a synchronous transport signal - level 1 (STS1) be stopped.</td>
<td>STP:STS1</td>
</tr>
<tr>
<td></td>
<td>5E16(1) and later</td>
</tr>
<tr>
<td>Requests that the currently executing maintenance action on a synchronous transport signal - level 3 concatenated (STS3C) facility be stopped.</td>
<td>STP:STS3C</td>
</tr>
<tr>
<td></td>
<td>5E16(2) and later</td>
</tr>
</tbody>
</table>

218. SYSTEM TAPE

<table>
<thead>
<tr>
<th>Topic/Purpose</th>
<th>Message ID/ Software Release Range</th>
</tr>
</thead>
<tbody>
<tr>
<td>Requests verification of the readability of information on administrative module (AM) tapes.</td>
<td>VFY:TAPE</td>
</tr>
</tbody>
</table>
and the consistency of corresponding hash sums.  5E12 and later

## 219. T1 FACILITY

<table>
<thead>
<tr>
<th>Topic/Purpose</th>
<th>Message ID/ Software Release Range</th>
</tr>
</thead>
<tbody>
<tr>
<td>Requests abort of maintenance actions on a remote switching module (RSM) facility (FAC) or a trunk FAC.</td>
<td>ABT:FAC 5E12 and later</td>
</tr>
<tr>
<td>Requests that a specified action on an integrated digital carrier unit (IDCU) digital signal level one (DS1) facility (IFAC) circuit be aborted.</td>
<td>ABT:IFAC 5E12 and later</td>
</tr>
<tr>
<td>Request to allow reports of transmission facility performance monitoring (PM) threshold crossing alert (TCA) report output messages (refer to the REPT:FAC output message) for facilities terminated on a digital facilities interface (DFI) model 2 (DFI-2), an integrated digital carrier unit (IDCU), or a digital networking unit - synchronous optical network (SONET) (DNU-S).</td>
<td>ALW:FAC-A 5E10</td>
</tr>
<tr>
<td>Request to allow reports of transmission facility performance monitoring (PM) threshold crossing alert (TCA) report output messages (refer to the REPT:FAC output message) for facilities terminated on a digital facilities interface (DFI) model 2 (DFI-2), an integrated digital carrier unit (IDCU), or a digital networking unit - synchronous optical network (SONET) (DNU-S).</td>
<td>ALW:FAC-B 5E13 - 5E15</td>
</tr>
<tr>
<td>Request to allow reports of transmission facility performance monitoring (PM) threshold crossing alert (TCA) report output messages (refer to the REPT:FAC output message) for facilities terminated on a digital facilities interface (DFI) model 2 (DFI-2), an integrated digital carrier unit (IDCU), an optical interface unit (OIU), or a digital networking unit - synchronous optical network (SONET) (DNU-S) number.</td>
<td>ALW:FAC-C 5E16(1) only</td>
</tr>
<tr>
<td>Request to allow reports of transmission facility performance monitoring (PM) threshold crossing alert (TCA) report output messages (refer to the REPT:FAC output message) for facilities terminated on a digital facilities interface (DFI) model 2 (DFI-2), an integrated digital carrier unit (IDCU), an optical interface unit (OIU), or a digital networking unit - synchronous optical network (SONET) (DNU-S) number.</td>
<td>ALW:FAC-D 5E16(2) and later</td>
</tr>
<tr>
<td>Requests that hardware error checks be allowed to be performed on the specified integrated digital carrier unit (IDCU) facility (IFAC) circuit.</td>
<td>ALW:HDW-IFAC 5E12 and later</td>
</tr>
<tr>
<td>Requests that protection line switch requests be allowed to be performed on the specified remote terminal (RT) digital signal level one (DS1) facility (FAC) or requests that a DS1 be allowed to be released from protection.</td>
<td>ALW:RT-FAC 5E12 and later</td>
</tr>
<tr>
<td>Requests that the message transfer part (MTP) route verification test (MRVT) delay parameter, which is used in the calculation of the T1 timer, be changed or displayed.</td>
<td>CHG:MRVT 5E12 and later</td>
</tr>
<tr>
<td>Requests that a far end loop process (FELP) or a protection (PROT) configuration request be cleared for a particular digital signal level one (DS1) facility (FAC).</td>
<td>CLR:RT-FAC 5E12 and later</td>
</tr>
<tr>
<td>Requests the disabling of the option of having the switching module (SM) status indicator updated to off-normal (OFFN) when a remote terminal (RT) T1 is in an off-normal state.</td>
<td>CLR:RT-FACOFFN 5E12 and later</td>
</tr>
<tr>
<td>Requests that protection line switch requests to be performed on the specified remote terminal (RT) digital signal level one (DS1) facility (FAC) circuit be inhibited or requests that a DS1 currently on protection be taken off of protection.</td>
<td>INH:RT-FAC 5E12 and later</td>
</tr>
<tr>
<td>Requests initializtion of performance monitoring (PM) data for facilities terminated on a digital facility interface (DFI), DFI model 2 (DFI-2), an integrated digital carrier unit (IDCU), or a digital networking unit - synchronous optical network (SONET) (DNU-S).</td>
<td>INIT:FAC-A 5E12 only</td>
</tr>
<tr>
<td>Requests initializtion of performance monitoring (PM) data for facilities terminated on a digital facility interface (DFI), DFI model 2 (DFI-2), an integrated digital carrier unit (IDCU), or a digital networking unit - synchronous optical network (SONET) (DNU-S).</td>
<td>INIT:FAC-B 5E13 - 5E15</td>
</tr>
<tr>
<td>Requests initializtion of performance monitoring (PM) data for facilities terminated on a digital facility interface (DFI), DFI model 2 (DFI-2), an integrated digital carrier unit (IDCU), a digital networking unit - synchronous optical network (SONET) (DNU-S), or an optical interface unit (OIU).</td>
<td>INIT:FAC-C 5E16(1) and later</td>
</tr>
<tr>
<td>Requests output of the contents of the performance monitoring (PM) data for facilities terminated on a digital facility interface (DFI), DFI model 2 (DFI-2), integrated digital carrier unit (IDCU), or a digital networking unit - synchronous optical network (SONET) (DNU-S).</td>
<td>OP:FAC-A 5E12 only</td>
</tr>
<tr>
<td>Requests output of the contents of the performance monitoring (PM) data for facilities terminated on a digital facility interface (DFI), DFI model 2 (DFI-2), integrated digital carrier unit (IDCU), or a digital networking unit - synchronous optical network (SONET) (DNU-S).</td>
<td>OP:FAC-B 5E12 and later</td>
</tr>
</tbody>
</table>
Requests output of the contents of the performance monitoring (PM) data for facilities terminated on a digital facility interface (DFI), DFI model 2 (DFI-2), integrated digital carrier unit (IDCU), optical interface unit (OIU), or a digital networking unit - synchronous optical network (SONET) (DNU-S) number.

**5E13 - 5E15**

Requests output of the contents of the performance monitoring (PM) data for facilities terminated on a digital facility interface (DFI), DFI model 2 (DFI-2), integrated digital carrier unit (IDCU), optical interface unit (OIU), or a digital networking unit - synchronous optical network (SONET) (DNU-S) number.

**5E16(1) only**

Requests output containing the busy/idle status of umbilical T1 facility channels between a host switching module (HSM) and remote switching module (RSM).

**5E12 and later**

Requests the value of the switching module (SM) status indicator.

**5E12 and later**

Requests removal of a remote switching module (RSM) facility (FAC) or a trunk FAC from service.

**5E12 and later**

Requests that an integrated digital carrier unit (IDCU) digital signal level one (DS1) facility (IFAC) circuit be removed from service either conditionally, by waiting for it to become idle, or unconditionally, by preempting the current user.

**5E12 and later**

Requests restoration of a remote switching module (RSM) facility (FAC) or a trunk FAC to service.

**5E12 and later**

Requests that an integrated digital carrier unit (IDCU) digital signal level one (DS1) facility (IFAC) circuit be restored to service.

**5E12 and later**

Requests that a far end loop process (FELP) or a protection configuration request (PROT) be set for a particular digital signal level one (DS1) facility (FAC).

**5E12 and later**

Requests enabling of the option to update the switching module (SM) status indicator to off-normal when a remote terminal (RT) T1 is in an off-normal state.

**5E12 and later**

Requests that maintenance actions be stopped on a remote switching module (RSM) facility (FAC) or a trunk FAC.

**5E12 and later**

Requests that action on an integrated digital carrier unit (IDCU) digital signal level one (DS1) facility (IFAC) circuit be stopped.

**5E12 and later**

Requests a test (connectivity exercise) of the connection of a remote switching module (RSM) facility (FAC).

**5E12 and later**

---

### 220. TAPE WRITER

<table>
<thead>
<tr>
<th>Topic/Purpose</th>
<th>Message ID/ Software Release Range</th>
</tr>
</thead>
<tbody>
<tr>
<td>Requests that the copying of the boot disk to tape be stopped.</td>
<td>STOP:BKDISK 5E12 and later</td>
</tr>
<tr>
<td>Stops any CMPR:MHD input messages that are currently executing.</td>
<td>STOP:CMPR-MHD 5E12 and later</td>
</tr>
<tr>
<td>Stops any COPY:DIFF:SRC input messages that are currently executing.</td>
<td>STOP:COPY-DIFF 5E12 and later</td>
</tr>
<tr>
<td>Requests that the copy of the boot disk to tape be stopped.</td>
<td>STP:BKDISK 5E12 and later</td>
</tr>
</tbody>
</table>

---

### 221. TELETYPETWRITER

<table>
<thead>
<tr>
<th>Topic/Purpose</th>
<th>Message ID/ Software Release Range</th>
</tr>
</thead>
<tbody>
<tr>
<td>Requests that the specified teletypewriter (TTY) be removed from service.</td>
<td>RMV:TTY 5E12 and later</td>
</tr>
<tr>
<td>Unconditionally restores the specified teletypewriter (TTY) to service.</td>
<td>RST:TTY 5E12 and later</td>
</tr>
</tbody>
</table>

---

### 221.1 Teletypewriter Controller
<table>
<thead>
<tr>
<th>Topic/Purpose</th>
<th>Message ID/ Software Release Range</th>
</tr>
</thead>
<tbody>
<tr>
<td>Diagnoses the specified teletypewriter controller (TTYC).</td>
<td>DGN: TTYC 5E12 and later</td>
</tr>
<tr>
<td>Exercises a teletypewriter controller (TTYC).</td>
<td>EX: TTYC 5E12 and later</td>
</tr>
<tr>
<td>Requests that the specified teletypewriter controller (TTYC) and any associated teletypewriters be removed from service.</td>
<td>RMV: TTYC 5E12 and later</td>
</tr>
<tr>
<td>Conditionally or unconditionally restores a teletypewriter controller (TTYC) to service.</td>
<td>RST: TTYC 5E12 and later</td>
</tr>
</tbody>
</table>

### 222. TEST AND ACCESS CIRCUIT

<table>
<thead>
<tr>
<th>Topic/Purpose</th>
<th>Message ID/ Software Release Range</th>
</tr>
</thead>
<tbody>
<tr>
<td>Requests that actions on the test and access circuit (TAC) be aborted at the specified location.</td>
<td>ABT:TAC 5E12 and later</td>
</tr>
<tr>
<td>Allows hardware error checks to be performed on the specified test and access circuit (TAC).</td>
<td>ALW:HDW-TAC 5E12 and later</td>
</tr>
<tr>
<td>Requests that a test and access circuit (TAC) be diagnosed to determine whether it is in satisfactory working order.</td>
<td>DGN:TAC 5E12 and later</td>
</tr>
<tr>
<td>Interactively diagnoses (exercises) the test and access circuit (TAC).</td>
<td>EX:TAC 5E12 and later</td>
</tr>
<tr>
<td>Inhibits the hardware error checks performed on the specified test and access circuit (TAC).</td>
<td>INH:HDW-TAC 5E12 and later</td>
</tr>
<tr>
<td>Requests that a test and access (TAC) circuit be removed from service.</td>
<td>RMV:TAC 5E12 and later</td>
</tr>
<tr>
<td>Restores either conditionally or unconditionally a test and access (TAC) circuit in a trunk unit to service.</td>
<td>RST:TAC 5E12 and later</td>
</tr>
<tr>
<td>Requests that actions on the trunk and access (TAC) circuit at the specified location be stopped.</td>
<td>STP:TAC 5E12 and later</td>
</tr>
</tbody>
</table>

### 223. TIME OF DAY

<table>
<thead>
<tr>
<th>Topic/Purpose</th>
<th>Message ID/ Software Release Range</th>
</tr>
</thead>
<tbody>
<tr>
<td>Requests that the display of the time of day (TOD) database update failure message be allowed.</td>
<td>ALW:TOD 5E12 and later</td>
</tr>
<tr>
<td>Inhibits the display of time of day (TOD) data base update failure message.</td>
<td>INH:TOD 5E12 and later</td>
</tr>
</tbody>
</table>

### 224. TESTING

<table>
<thead>
<tr>
<th>Topic/Purpose</th>
<th>Message ID/ Software Release Range</th>
</tr>
</thead>
<tbody>
<tr>
<td>Requests that the wireless test set will be assigned to an <em>Air Extension</em> user's analog line so that the maintenance personnel can test an user's wireless service without requiring the user's handset phone.</td>
<td>ASGN:TESTSET 5E12 and later</td>
</tr>
<tr>
<td>Requests that the set of test sets defined in the WNC and their current state be listed out.</td>
<td>OP:TESTSET 5E12 and later</td>
</tr>
<tr>
<td>Request that the wireless test set assigned through ASGN:TESTSET will be de-assigned manually so that the wireless service will be returned to the user.</td>
<td>RLS:TESTSET 5E12 and later</td>
</tr>
<tr>
<td>Requests that a currently-running (manually-requested) electronic loop segregation (ELS) test be stopped.</td>
<td>STP:TST-ELS 5E12 and later</td>
</tr>
<tr>
<td>Requests a manual direct link node (DLN) &quot;heartbeat test&quot; execution for a specific switching module (SM).</td>
<td>TST:DLNHB 5E12 and later</td>
</tr>
<tr>
<td>Requests that an inward wide area telecommunications service (INWATS) direct signaling query be sent to the INWATS database to verify its operation.</td>
<td>TST:INWATS 5E12 and later</td>
</tr>
<tr>
<td>Requests a test of a modem pool (MP).</td>
<td>TST:MP 5E12 and later</td>
</tr>
</tbody>
</table>
Requests that a network call denial (NCD) query be sent to the NCD database to verify its operation.

TST:NCD
5E12 and later

Requests testing of the integrity of the common channel signaling (CCS) network and data consistency between the service control point (SCP) and the 5ESS® switch.

TST:NS800-A
5E12 - 5E13

Requests testing of the integrity of the common channel signaling (CCS) network and data consistency between the service control point (SCP) and the switch.

TST:NS800-B
5E14 only

Requests testing of the integrity of the common channel signaling (CCS) network and data consistency between the service control point (SCP) and the switch.

TST:NS800-C
5E15 and later

Requests that a rate query be sent to the real time rating system (RTRS) database to verify its operation.

TST:RATE
5E12 and later

Requests an automatic voice frequency link (VFL) test for a specified common channel signaling (CCS) link.

TST:VFL
5E12 and later

### 225. TIME MULTIPLEX SWITCH

<table>
<thead>
<tr>
<th>Topic/Purpose</th>
<th>Message ID/ Software Release Range</th>
</tr>
</thead>
<tbody>
<tr>
<td>Aborts a diagnostic or exercise on the time multiplexed switch (TMS) on the specified office network and timing complex (ONTC).</td>
<td>ABT:TMS-A</td>
</tr>
<tr>
<td>Requests that a specified time multiplexed switch (TMS) fabric pair (TMSFP) for the specified office network and timing complex (ONTC). be removed from service.</td>
<td>RMV:TMSFP</td>
</tr>
<tr>
<td>Requests that a specified time multiplexed switch (TMS) fabric pair (TMSFP) for the specified office network and timing complex (ONTC) be restored to service.</td>
<td>RST:TMSFP</td>
</tr>
<tr>
<td>Requests that a specified time multiplexed switch link (TMSLNK) be restored to service.</td>
<td>RST:TMSLNK-A</td>
</tr>
<tr>
<td>Requests that a specified time multiplexed switch link (TMSLNK) be restored to service.</td>
<td>RST:TMSLNK-B</td>
</tr>
<tr>
<td>Requests a dump of the time multiplexed switch (TMS) error source registers (ESRs).</td>
<td>DUMP:TMS-A</td>
</tr>
<tr>
<td>Requests a dump of the time multiplexed switch (TMS) error source registers (ESRs).</td>
<td>DUMP:TMS-B</td>
</tr>
<tr>
<td>Requests a dump of the time multiplexed switch (TMS) error source registers (ESRs) and related information.</td>
<td>DUMP:TMS-C</td>
</tr>
<tr>
<td>Requests that the time multiplexed switch (TMS) be exercised in an interactive mode.</td>
<td>EX:TMS-A</td>
</tr>
<tr>
<td>Requests that the time multiplexed switch (TMS) be exercised in an interactive mode.</td>
<td>EX:TMS-B</td>
</tr>
<tr>
<td>Requests that a value(s) be loaded into the memory of the specified time multiplex switch (TMS).</td>
<td>LOAD:UT-TMS-A</td>
</tr>
<tr>
<td>Requests that a value(s) be loaded into the memory of the specified time multiplex switch (TMS).</td>
<td>LOAD:UT-TMS-B</td>
</tr>
<tr>
<td>Requests that a diagnostic or exercise on the time-multiplexed switch (TMS) on the specified office network and timing complex (ONTC) be stopped.</td>
<td>STP:TMS</td>
</tr>
</tbody>
</table>
(TMSFP) for the specified office network and timing complex (ONTC). 5E16(2) and later Requests that all lines assigned to a specific call pickup group (CPUG) number or lines having a form of directed call pickup be queried and reported. VFY:CPU-A 5E12 - 5E14 Requests that all lines assigned to a specific call pickup group (CPUG) number or lines having a form of directed call pickup be queried and reported. VFY:CPU-B 5E15 and later

226. TIMESLOT MANAGEMENT CHANNEL

<table>
<thead>
<tr>
<th>Topic/Purpose</th>
<th>Message ID/ Software Release Range</th>
</tr>
</thead>
<tbody>
<tr>
<td>Requests that information describing the configuration of the embedded operations channel (EOC) and timeslot management channel (TMC) for the specified remote terminal (RT) be displayed.</td>
<td>OP:RT-CAN 5E12 and later</td>
</tr>
<tr>
<td>Requests that a remote terminal (RT) timeslot management channel (TMC) circuit be removed from service either conditionally, by waiting for it to become idle, or unconditionally, by preemption the current user.</td>
<td>RMV:DNUSTMC 5E12 and later</td>
</tr>
<tr>
<td>Requests that a remote terminal (RT) timeslot management channel (TMC) circuit be removed from service either conditionally, by waiting for it to become idle, or unconditionally, by preemption the current user.</td>
<td>RMV:IDCUTMC 5E12 and later</td>
</tr>
<tr>
<td>Requests that a remote terminal (RT) timeslot management channel (TMC) circuit be removed from service either conditionally, by waiting for it to become idle, or unconditionally, by preemption the current user.</td>
<td>RMV:RT-TMC 5E12 and later</td>
</tr>
<tr>
<td>Requests that a remote terminal (RT) timeslot management channel (TMC) circuit be restored to service.</td>
<td>RST:DNUSTMC 5E12 and later</td>
</tr>
<tr>
<td>Requests that a remote terminal (RT) timeslot management channel (TMC) circuit be restored to service.</td>
<td>RST:IDCUTMC 5E12 and later</td>
</tr>
<tr>
<td>Requests that a remote terminal (RT) timeslot management channel (TMC) circuit be restored to service.</td>
<td>RST:RT-TMC 5E12 and later</td>
</tr>
<tr>
<td>Requests that actions on a remote terminal (RT) timeslot Management channel (TMC) circuit be stopped.</td>
<td>STP:DNUSTMC 5E12 and later</td>
</tr>
<tr>
<td>Requests that actions on a remote terminal (RT) timeslot Management channel (TMC) circuit be stopped.</td>
<td>STP:IDCUTMC 5E12 and later</td>
</tr>
<tr>
<td>Requests that the active and standby states of remote terminal (RT) timeslot management channel (TMC) circuits be switched (interchanged).</td>
<td>SW:DNUSTMC 5E12 and later</td>
</tr>
<tr>
<td>Requests that the active and standby states of remote terminal (RT) timeslot management channel (TMC) circuits be switched (interchanged).</td>
<td>SW:IDCUTMC 5E12 and later</td>
</tr>
<tr>
<td>Requests that the active and standby states of remote terminal (RT) timeslot management channel (TMC) circuits be switched (interchanged).</td>
<td>SW:RT-TMC 5E12 and later</td>
</tr>
</tbody>
</table>

227. TRAFFIC MEASUREMENT

<table>
<thead>
<tr>
<th>Topic/Purpose</th>
<th>Message ID/ Software Release Range</th>
</tr>
</thead>
<tbody>
<tr>
<td>Requests that the 15-minute traffic report be allowed to be output to the ROP.</td>
<td>ALW:TRFC15 5E12 and later</td>
</tr>
<tr>
<td>Requests that the specified section of the 30-minute traffic report be allowed to be collected (CLCT) or output to the traffic channel (TRFCH) or ROP every 30 minutes.</td>
<td>ALW:TRFC30 5E12 and later</td>
</tr>
<tr>
<td>Requests a backup of the traffic measurements settings to disk.</td>
<td>BKUP:TRFM 5E16(1) and later</td>
</tr>
<tr>
<td>Requests that the 15-minute traffic report be inhibited from being output to the ROP.</td>
<td>INH:TRFC15 5E12 and later</td>
</tr>
<tr>
<td>Requests the inhibition of the collection or outputting of the specified section of the 30-minute traffic report.</td>
<td>INH:TRFC30 5E12 and later</td>
</tr>
<tr>
<td>Requests the output of the list of measured carriers.</td>
<td>OP:MEASIC 5E12 and later</td>
</tr>
<tr>
<td>Requests either the collection (CLCT) or the print (PRINT) status of the division of revenue hourly report (DRHR), plant hour (PLNHR), traffic<del>15 (TRFC15), and all sections of the traffic</del>30 (TRFC30) reports.</td>
<td>OP:MEASTAT-A 5E12 - 5E13</td>
</tr>
<tr>
<td>Requests either the collection (CLCT) or the print (PRINT) status of the division of revenue hourly report (DRHR), plant hour (PLNHR), traffic 15 (TRFC15), and all sections of the traffic</td>
<td>OP:MEASTAT-B 5E14 and later</td>
</tr>
</tbody>
</table>
### 228. TRANSFER

<table>
<thead>
<tr>
<th>Topic/Purpose</th>
<th>Message ID/ Software Release Range</th>
</tr>
</thead>
<tbody>
<tr>
<td>Requests that the remote file transfer system be started, stopped or status be reported.</td>
<td>IN:XFER 5E12 and later</td>
</tr>
</tbody>
</table>

### 229. TRANSACTIONS

<table>
<thead>
<tr>
<th>Topic/Purpose</th>
<th>Message ID/ Software Release Range</th>
</tr>
</thead>
<tbody>
<tr>
<td>Requests that all active office-dependent data (ODD) database transactions be cleared in the administrative module (AM), the communication module processor (CMP) and all switching modules (SMs).</td>
<td>CLR:TRN 5E12 and later</td>
</tr>
<tr>
<td>Requests that an American National Standards Institute (ANSI®) transaction capabilities application part (TCAP) type 1 test query be sent to a billing validation database to verify its operation.</td>
<td>TST:AT1 5E12 and later</td>
</tr>
</tbody>
</table>

### 230. TRANSLATIONS

<table>
<thead>
<tr>
<th>Topic/Purpose</th>
<th>Message ID/ Software Release Range</th>
</tr>
</thead>
<tbody>
<tr>
<td>Requests a conversion (translation) for a particular trunk, line, data link, or Operator Services Position System port (OSPSPORT).</td>
<td>OP:CONV-A 5E12 only</td>
</tr>
<tr>
<td>Requests a conversion (translation) for a particular trunk, line, data link, or Operator Services Position System port (OSPSPORT).</td>
<td>OP:CONV-B 5E13 only</td>
</tr>
<tr>
<td>Requests a conversion (translation) for a particular trunk, line, data link, or Operator Services Position System port (OSPSPORT).</td>
<td>OP:CONV-C 5E14 only</td>
</tr>
<tr>
<td>Requests a conversion (translation) for a particular trunk, line, data link, or Operator Services Position System port (OSPSPORT).</td>
<td>OP:CONV-D 5E15 only</td>
</tr>
<tr>
<td>Requests a conversion (translation) for a particular trunk, line, data link, or Operator Services Position System port (OSPSPORT).</td>
<td>OP:CONV-E 5E16(1) and later</td>
</tr>
<tr>
<td>Requests that translation information for a particular circuit, from its external identifier to its internal circuit name, be output.</td>
<td>OP:CONV-EXT-A 5E12 only</td>
</tr>
<tr>
<td>Requests that translation information for a particular circuit, from its external identifier to its internal circuit name, be output.</td>
<td>OP:CONV-EXT-B 5E13 only</td>
</tr>
<tr>
<td>Requests that translation information for a particular circuit, from its external identifier to its internal circuit name, be output.</td>
<td>OP:CONV-EXT-C 5E14 only</td>
</tr>
<tr>
<td>Requests that translation information for a particular circuit, from its external identifier to its internal circuit name, be output.</td>
<td>OP:CONV-EXT-D 5E15 only</td>
</tr>
<tr>
<td>Requests that translation information for a particular circuit, from its external identifier to its internal circuit name, be output.</td>
<td>OP:CONV-EXT-E 5E16(1) and later</td>
</tr>
<tr>
<td>Requests that translation information for a particular circuit, from its internal identifier to its external identifier.</td>
<td>OP:CONV-INT 5E9(2) and later</td>
</tr>
<tr>
<td>Convert from a given protocol handler (PH) for asynchronous transfer mode (ATM) (PHA) to the associated packet switch unit (PSU) link and channel that it services.</td>
<td>OP:CONV-PHA-A 5E12 - 5E15</td>
</tr>
<tr>
<td>Convert from a given protocol handler (PH) for asynchronous transfer mode (ATM) (PHA) to the associated packet switch unit (PSU) link and channel that it services.</td>
<td>OP:CONV-PHA-B 5E16(1) and later</td>
</tr>
<tr>
<td>Convert from a given packet switch unit (PSU) link (PSLNK) to the associated protocol handlers (PHs) for asynchronous transfer mode (ATM) (PHAs) that service the individual channels of the PSU link.</td>
<td>OP:CONV-PSLNK-A 5E12 - 5E15</td>
</tr>
<tr>
<td>Convert from a given packet switch unit (PSU) link (PSLNK) to the associated protocol</td>
<td>OP:CONV-PSLNK-B</td>
</tr>
</tbody>
</table>

---

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handlers (PHs) for asynchronous transfer mode (ATM) (PHAs) that service the individual channels of the PSU link.

Convert from a given packet switch unit (PSU) link (PSLNK) to the associated protocol handlers (PHs) for asynchronous transfer mode (ATM) (PHAs) that service the individual channels of the PSU link.

Requests consolidated routing information based on requested digit analysis selector (DAS).

Requests output of a complete routing pattern based on input information.

### 231. TRANSMISSION CONTROL PROTOCOL/INTERNET PROTOCOL

<table>
<thead>
<tr>
<th>Topic/Purpose</th>
<th>Message ID/ Software Release Range</th>
</tr>
</thead>
<tbody>
<tr>
<td>The TCP/IP route dump input message is used to verify TCP/IP routing tables in an SM or PH.</td>
<td>OP:TCPIP-RTDMP 5E14 and later</td>
</tr>
</tbody>
</table>

### 232. TRANSMISSION RATE CONVERTER UNIT

<table>
<thead>
<tr>
<th>Topic/Purpose</th>
<th>Message ID/ Software Release Range</th>
</tr>
</thead>
<tbody>
<tr>
<td>Requests a print-out of the transmission rate converter unit (TRCU) information associated with the specified TRCU path (TRCP) or the TRCU3 control time slot (TCTS) number.</td>
<td>OP:TRCU 5E12 and later</td>
</tr>
</tbody>
</table>

This request is used to "force" active a particular function pack pair of a transmission rate conversion unit - model III (TRCU3) circuit.

### 233. TRANSMISSION TEST FACILITY COMMON BOARD

<table>
<thead>
<tr>
<th>Topic/Purpose</th>
<th>Message ID/ Software Release Range</th>
</tr>
</thead>
<tbody>
<tr>
<td>Requests that actions on the test transmission facility common (TTFCOM) circuit be aborted at the specified location.</td>
<td>ABT:TTFCOM 5E12 and later</td>
</tr>
</tbody>
</table>

Allows hardware error checks to be performed on the specified transmission test facility common (TTFCOM) circuit pack.

Requests that a transmission test facility common (TTFCOM) circuit be diagnosed to determine whether it is in satisfactory working order.

Interactively diagnoses (exercises) the transmission test facility common (TTFCOM) circuit.

Inhibits the hardware error checks performed on the specified transmission test facility common (TTFCOM) circuit pack.

Requests that a transmission test facility common (TTFCOM) circuit pack be removed from service.

Conditionally or unconditionally restores a transmission test facility common (TTFCOM) board in a global digital service unit (GDSU) to service.

Requests that actions on the transmission test facility common (TTFCOM) board at the specified location be stopped.

### 234. TRUNK AND LINE WORK STATION

<table>
<thead>
<tr>
<th>Topic/Purpose</th>
<th>Message ID/ Software Release Range</th>
</tr>
</thead>
<tbody>
<tr>
<td>Requests that an active trunk and line work station (TLWS) maintenance task or an AUTOPLEX® automatic task administrator (AATA) maintenance task be aborted.</td>
<td>ABT:ASK 5E12 and later</td>
</tr>
</tbody>
</table>

Requests that an active trunk and line work station (TLWS) maintenance task be aborted.

Requests that the position busy (PB) indicator be cleared at certain trunk line work stations (TLWSs) or centralized trunk test units (CTTUs) assigned to receive incoming 101 test line calls.

Clears the status of a route making it available, and stops the signaling route set test (SRST). | CLR:SRST-DPC 5E12 and later |
for the route.

Requests that the trunk and line work station (TLWS) test position (TP) digital testing defaults
be reset to the system defaults.

Requests that the frequency and level be cleared at a particular trunk and line work station
(TLWS) test position (TP).

Requests that the digits that are used for automatic outpulsing on the trunk associated with
the indicated trunk and line work station (TLWS) test position (TP) be cleared.

Requests seizure of an incoming 101TL (test-line) call at a trunk and line work station (TLWS)
test position (TP).

Requests connection of the specified line or trunk at the trunk and line work station (TLWS)
test position (TP) to a test access unit (TAU) jack.

Requests seizure of (connection to) a line for interactive trunk and line work station (TLWS)
testing.

Requests to connect the trunk and line work station (TLWS) talk-and-monitor (T&M) phone
with the current line or trunk associated with the test position (TP).

Requests that the port (line or trunk) that is associated with the specified trunk and line work
station (TLWS) test position (TP) be re-seized.

Requests seizure of (connection to) a trunk for interactive trunk and line work station (TLWS)
testing.

Requests seizure of (connection to) a trunk for interactive trunk and line work station (TLWS)
testing.

Requests seizure of (connection to) a trunk for interactive trunk and line work station (TLWS)
testing.

Requests seizure of (connection to) a trunk for interactive trunk and line work station (TLWS)
testing.

Requests that the line that is associated with the specified trunk and line work station (TLWS)
test position (TP) be disconnected.

Requests that the trunk and line work station (TLWS) talk-and-monitor (T&M) phone be
disconnected from the indicated test position (TP).

Requests that the port (line or trunk) that is associated with the specified trunk and line work
station (TLWS) test position (TP) be disconnected.

Requests that the trunk that was associated with the specified trunk and line work station
(TLWS) test position (TP) using an earlier CONN:WSTRK or CONN:WSIC input message be
released.

Requests the display of the position busy (PB) and not position busy (NPB) status of each of
the trunk line work stations (TLWSs) or centralized trunk test units (CTTUs) that are assigned
to receive incoming 101 test calls.

Requests the immediate or automatic printing of test results from the specified trunk and line
work station (TLWS) test position (TP).

Requests the testing status of one or all trunk and line work station (TLWS) test positions
(TP).

Releases a trunk and line work station (TLWS) test position (TP).

Stops the test in progress and releases the associated testing hardware [such as, global
digital services function (GDSF), transmission test facility (TTF) or directly connected test unit
(DCTU)] at the indicated trunk and line work station (TLWS) test position (TP).

Requests that the position busy (PB) indicator of certain trunk line work stations (TLWSs) or
centralized trunk test units (CTTUs) that are assigned to receive incoming 101 test line calls
be set.

Requests setting the trunk and line work station (TLWS) test position (TP) digital testing
defaults.

Requests setting the trunk and line work station (TLWS) test position (TP) digital testing
frequency and/or level.

Requests to set the digits that are to be used for automatic outpulsing on a trunk associated
with the indicated trunk and line work station (TLWS) test position (TP).

Requests that the mode of the trunk and line work station (TLWS) talk-and-monitor (T&M)
phone connected to the indicated test position (TP) be set.

Requests a trunk and line work station (TLWS) test position (TP) and testing resources (ID) to
associate with the terminal issuing this input message.

Requests to stop the action of a test at the trunk and line work station (TLWS) test position
(TP) started by a digital, metallic, supervision, or transmission test request.
### 235. TRUNK EQUIPMENT NUMBER

<table>
<thead>
<tr>
<th>Topic/Purpose</th>
<th>Message ID/ Software Release Range</th>
</tr>
</thead>
<tbody>
<tr>
<td>Requests that actions on the trunk equipment number (TEN) be aborted at the specified location.</td>
<td>ABT:TEN 5E12 and later</td>
</tr>
<tr>
<td>Allows hardware error checks to be performed on the specified trunk equipment number (TEN).</td>
<td>ALW:HDW-TEN 5E12 and later</td>
</tr>
<tr>
<td>Requests that a trunk equipment number (TEN) be diagnosed to determine whether it is in satisfactory working order.</td>
<td>DGN:TEN 5E12 and later</td>
</tr>
<tr>
<td>Interactively diagnoses (exercises) the trunk equipment number (TEN).</td>
<td>EX:TEN 5E12 and later</td>
</tr>
<tr>
<td>Inhibits the hardware error checks performed on the specified trunk equipment number (TEN) circuit.</td>
<td>INH:HDW-TEN 5E12 and later</td>
</tr>
<tr>
<td>Requests that the analog trunk specified by the trunk equipment number (TEN) be removed from service.</td>
<td>RMV:TEN 5E12 and later</td>
</tr>
<tr>
<td>Restores either conditionally or unconditionally a single analog trunk in a trunk unit specified by a trunk equipment number (TEN) circuit in a trunk unit to service.</td>
<td>RST:TEN 5E12 and later</td>
</tr>
<tr>
<td>Requests that actions on the analog trunk specified by the trunk equipment number (TEN) be stopped.</td>
<td>STP:TEN 5E12 and later</td>
</tr>
</tbody>
</table>

### 236. TRUNK GROUPS

<table>
<thead>
<tr>
<th>Topic/Purpose</th>
<th>Message ID/ Software Release Range</th>
</tr>
</thead>
<tbody>
<tr>
<td>Assigns trunk groups to the network management (NM) schedule (SCH).</td>
<td>ASGN:DPSCH 5E12 and later</td>
</tr>
<tr>
<td>Removes trunk groups displayed in the TRUNK block of the defense switched network (DSN) network management (NM) exception page (page 129) from display boxes; however it keeps the trunk groups in the NM schedule.</td>
<td>CLR:TRKDP 5E12 and later</td>
</tr>
<tr>
<td>Requests that monitoring be stopped of a trunk group marked with stop-go signaling.</td>
<td>CLR:TRUNK 5E12 and later</td>
</tr>
<tr>
<td>Initiates the common channel signaling (CCS) translation test (or circuit validation) for a specific CCS7 trunk.</td>
<td>EXC:CCSXLATE-A 5E12 - 5E14</td>
</tr>
<tr>
<td>Initiates the common channel signaling (CCS) translation test (or circuit validation) for a specific CCS7 trunk.</td>
<td>EXC:CCSXLATE-B 5E15 and later</td>
</tr>
<tr>
<td>Requests that the inhibit for the periodic signaling link test (PSLT) be set, reset or reported.</td>
<td>INH:PSLT 5E12 and later</td>
</tr>
<tr>
<td>Requests the specified trunk group marked with stop-go signaling be monitored.</td>
<td>MON:TRUNK 5E12 and later</td>
</tr>
<tr>
<td>Lists a history over the immediate previous two hours of attempts per circuit per hour (ACH)</td>
<td>OP:ACCH</td>
</tr>
</tbody>
</table>
Requests that all dynamic overload controls (DOCs) specified for the office be listed, or lists
the control for a single trunk group.

Report the status of inhibited or allowed for the periodic signaling link test (PSLT).

Requests print-out of the threshold counts, operational all tests passed count, and purge
count of a trunk circuit (Formats 1, 2, 3 and 4) or universal tone decoder (UTD) (Format 5),
universal tone generator (UTG) (Format 6), or retractive pulsing trunk (Format 7) on the trunk
error analysis lists.

Requests print-out of the threshold counts, operational all tests passed count, and purge
count of a trunk circuit, universal tone decoder (UTD), universal tone generator (UTG), or
retractive pulsing trunk on he trunk error analysis lists.

Requests print-out of the threshold counts, operational all tests passed count, and purge
count of a trunk circuit, universal tone decoder (UTD), universal tone generator (UTG), or
retractive pulsing trunk on he trunk error analysis lists.

Requests report of trunks being held off-hook and ouf-of-service.

Establishes or releases a connection between a network digital loop and a specific digital
tunk.

Establishes or releases a connection between a network digital loop and a specific digital
tunk.

Establishes or releases a connection between a network digital loop and a specific digital
tunk.

Establishes or releases a connection between a network 1004 Hz tone and a specific digital
tunk.

Establishes or releases a connection between a network 1004 Hz tone and a specific digital
tunk.

Establishes or releases a connection between a network 1004 Hz tone and a specific digital
tunk.

Requests the removal of a trunk from service and places it in the specified out-of-service
(OOS) status.

Requests the removal of a trunk from service and places it in the specified out-of-service
(OOS) status.

Requests the removal of a trunk from service and places it in the specified out-of-service
(OOS) status.

Requests the removal of a trunk from service and places it in the specified out-of-service
(OOS) status.

Requests that a trunk, a range of trunks in a trunk group, an entire trunk group, a primary rate
interface (PRI) group, all trunks on a digital facility interface (DFI), or all trunks on a digital
network unit - synchronous optical network (SONET) (DNU-S) virtual tributary 1.5 facility
(VT1.5) be returned to service by deleting the specified out-of-service (OOS) condition.

Requests that a trunk, a range of trunks in a trunk group, an entire trunk group, a primary rate
interface (PRI) group, all trunks on a digital facility interface (DFI), or all trunks on a digital
networking unit - synchronous optical network (SONET) (DNU-S) virtual tributary level 1 facility
be returned to service by deleting the specified out-of-service (OOS) condition.

Requests that a trunk, a range of trunks in a trunk group, an entire trunk group, a primary rate
interface (PRI) group, all trunks on a digital facility interface (DFI), all trunks on a digital
networking unit - synchronous optical network (SONET) (DNU-S) virtual tributary level 1 facility,
or all trunks on a peripheral control and timing line and trunk unit (PLTU) be returned
to service by deleting the specified out-of-service (OOS) condition.

Requests that a RST:TRK request be stopped and the trunk(s) be put back into an
appropriate out-of-service status.

Requests that a RST:TRK request be stopped and the trunk(s) be put back into an
appropriate out-of-service status.
Requests a report to verify all the members of a multi-line hunt group (MLHG).

VFY:MLHG
5E12 and later

## 236.1 Trunk Group Controls

<table>
<thead>
<tr>
<th>Topic/Purpose</th>
<th>Message ID/ Software Release</th>
</tr>
</thead>
<tbody>
<tr>
<td>Requests a single service selective trunk reservation (SSTR) control be allowed for a specified trunk group after being inhibited by the INH:SSTR input message or by the INH option of the ASGN:SSTR input message.</td>
<td>ALW:SSTR 5E12 and later</td>
</tr>
<tr>
<td>Requests a single trunk reservation (TR) control be allowed for a specified trunk group.</td>
<td>ALW:TR 5E12 and later</td>
</tr>
<tr>
<td>Requests a service selective trunk reservation (SSTR) control be assigned to a specified trunk group.</td>
<td>ASGN:SSTR 5E12 and later</td>
</tr>
<tr>
<td>Requests a trunk reservation (TR) control be assigned to a specified trunk group.</td>
<td>ASGN:TR-A 5E12 - 5E14</td>
</tr>
<tr>
<td>Requests a trunk reservation (TR) control be assigned to a specified trunk group.</td>
<td>ASGN:TR-B 5E15 only</td>
</tr>
<tr>
<td>Requests a trunk reservation (TR) control be assigned to a specified trunk group.</td>
<td>ASGN:TR-C 5E16(1) only</td>
</tr>
<tr>
<td>Requests a trunk reservation (TR) control be assigned to a specified trunk group.</td>
<td>ASGN:TR-D 5E16(2) and later</td>
</tr>
<tr>
<td>Requests a single service selective trunk reservation (SSTR) control be cleared on a specified trunk group.</td>
<td>CLR:SSTR 5E12 and later</td>
</tr>
<tr>
<td>Requests that any service selective trunk reservation (SSTR) inhibit override that was set as the result of a SET:SSTROVRD input message be cleared and all SSTR per-trunk-group inhibits be restored to their original state.</td>
<td>CLR:SSTROVRD 5E12 and later</td>
</tr>
<tr>
<td>Requests that network management (NM) trunk group controls (TGCs) of a given control type be removed.</td>
<td>CLR:TGC 5E12 and later</td>
</tr>
<tr>
<td>Requests a list of all service selective trunk reservation (SSTR) controls that are currently assigned, or lists the SSTR controls for a single trunk group.</td>
<td>CLR:TGC 5E12 and later</td>
</tr>
<tr>
<td>Requests that all service selective trunk reservation (SSTR) per-trunk-group inhibits be overridden.</td>
<td>SET:SSTROVRD 5E12 and later</td>
</tr>
<tr>
<td>Requests that a (SKIP), cancel-to (CANT), cancel-from (CANF), or cancel reroute overflow (CRO) trunk group control (TGC) on a trunk group be set for immediate activation (manual control).</td>
<td>SET:TGC-A 5E12 - 5E14</td>
</tr>
<tr>
<td>Requests that a (SKIP), cancel-to, cancel-from, or cancel reroute overflow (CRO) trunk group control (TGC) on a trunk group be set for immediate activation (manual control).</td>
<td>SET:TGC-B 5E15 only</td>
</tr>
<tr>
<td>Requests that a (SKIP), cancel-to, cancel-from, or cancel reroute overflow (CRO) trunk group control (TGC) on a trunk group be set for immediate activation (manual control).</td>
<td>SET:TGC-C 5E12 and later</td>
</tr>
</tbody>
</table>
### 237. TRUNK TESTING

<table>
<thead>
<tr>
<th>Topic/Purpose</th>
<th>Message ID/ Software Release Range</th>
</tr>
</thead>
<tbody>
<tr>
<td>Requests that a skip, cancel-to, cancel-from, or cancel reroute overflow (CRO) trunk group control (TGC) on a trunk group be set for immediate activation (manual control).</td>
<td>SET:TGC-D 5E16(1) only</td>
</tr>
<tr>
<td>Requests that all trunk reservation (TR) per-trunk-group inhibits be overridden.</td>
<td>SET:TRORVD 5E12 and later</td>
</tr>
<tr>
<td>Requests that further output from a previously requested network management OP input message be stopped.</td>
<td>STP:NMOP 5E12 and later</td>
</tr>
<tr>
<td>Requests that a skip, cancel-to, cancel-from, or cancel reroute overflow (CRO) trunk group control (TGC) on a trunk group be set for immediate activation (manual control).</td>
<td>SET:TGC-D 5E16(2) and later</td>
</tr>
<tr>
<td>Requests that all trunk reservation (TR) per-trunk-group inhibits be overridden.</td>
<td>SET:TRORVD 5E12 and later</td>
</tr>
<tr>
<td>Requests that further output from a previously requested network management OP input message be stopped.</td>
<td>STP:NMOP 5E12 and later</td>
</tr>
</tbody>
</table>

### 238. TRUNK UNIT CHANNEL BOARD

<table>
<thead>
<tr>
<th>Topic/Purpose</th>
<th>Message ID/ Software Release Range</th>
</tr>
</thead>
<tbody>
<tr>
<td>Requests that actions on the trunk unit channel board (TUCHBD) be aborted at the specified location.</td>
<td>ABT:TUCHBD 5E12 and later</td>
</tr>
<tr>
<td>Requests that a trunk unit channel board (TUCHBD) be diagnosed to determine whether it is in satisfactory working order.</td>
<td>DGN:TUCHBD 5E12 and later</td>
</tr>
<tr>
<td>Requests that a trunk unit channel board (TUCHBD) be removed from service.</td>
<td>RMV:TUCHBD 5E12 and later</td>
</tr>
<tr>
<td>Requests that the test of continuity of analog lines terminated on the W-card of WNC be tested and printed out.</td>
<td>TST:WLINE 5E12 and later</td>
</tr>
<tr>
<td>Requests that actions on the trunk unit channel board (TUCHBD) be aborted at the specified location.</td>
<td>ABT:TUCHBD 5E12 and later</td>
</tr>
<tr>
<td>Requests that a trunk unit channel board (TUCHBD) be diagnosed to determine whether it is in satisfactory working order.</td>
<td>DGN:TUCHBD 5E12 and later</td>
</tr>
<tr>
<td>Requests that a trunk unit channel board (TUCHBD) be removed from service.</td>
<td>RMV:TUCHBD 5E12 and later</td>
</tr>
</tbody>
</table>
### 239. UMBILICAL

<table>
<thead>
<tr>
<th>Topic/Purpose</th>
<th>Message ID/ Software Release Range</th>
</tr>
</thead>
<tbody>
<tr>
<td>Requests that the user shell accept an input message that it previously rejected because it was not represented in the input message catalog database.</td>
<td>EXC:UCL 5E12 and later</td>
</tr>
<tr>
<td>Request output containing the busy/idle status of host umbilical channels.</td>
<td>OP: UMBILMAP 5E12 and later</td>
</tr>
<tr>
<td>Requests that a host umbilical (UMBIL) circuit be removed from service either conditionally, by waiting for it to become idle, or unconditionally, by preempting the current user.</td>
<td>RMV: UMBIL 5E12 and later</td>
</tr>
<tr>
<td>Requests that a host umbilical circuit be restored to service.</td>
<td>RST: UMBIL 5E13 and later</td>
</tr>
<tr>
<td>Requests that actions on a host umbilical (UMBIL) circuit be stopped.</td>
<td>STP: UMBIL 5E13 and later</td>
</tr>
<tr>
<td>Requests a test (connectivity exercise) of the connection of a host umbilical (UMBIL).</td>
<td>TST: UMBIL 5E13 and later</td>
</tr>
</tbody>
</table>

### 240. UNIVERSAL CONFERENCE CIRCUIT

<table>
<thead>
<tr>
<th>Topic/Purpose</th>
<th>Message ID/ Software Release Range</th>
</tr>
</thead>
<tbody>
<tr>
<td>Requests that actions on the universal conference (UCONF) circuit board be aborted at the specified location.</td>
<td>ABT:UCONF 5E12 and later</td>
</tr>
<tr>
<td>Allows hardware error checks to be performed on the specified universal conference (UCONF) circuit board.</td>
<td>ALW: HDW-UCONF 5E12 and later</td>
</tr>
<tr>
<td>Requests that a universal conference (UCONF) circuit board be diagnosed to determine whether it is in satisfactory working order.</td>
<td>DGN:UCONF 5E12 and later</td>
</tr>
<tr>
<td>Interactively diagnoses (exercises) the universal conference circuit (UCONF) board.</td>
<td>EX:UCONF 5E12 and later</td>
</tr>
<tr>
<td>Inhibits the hardware error checks performed on the specified universal conference (UCONF) circuit board.</td>
<td>INH: HDW-UCONF 5E12 and later</td>
</tr>
<tr>
<td>Requests that a universal conference (UCONF) circuit board be removed from service.</td>
<td>RMV:UCONF 5E12 and later</td>
</tr>
<tr>
<td>Conditionally or unconditionally restores a universal conference (UCONF) circuit board in a global digital service unit (GDSU) to service.</td>
<td>RST:UCONF 5E12 and later</td>
</tr>
<tr>
<td>Requests that actions on the universal conference (UCONF) circuit at the specified location be stopped.</td>
<td>STP:UCONF 5E12 and later</td>
</tr>
</tbody>
</table>

### 241. UNIVERSAL TONE

#### 241.1 Universal Tone Decoder

<table>
<thead>
<tr>
<th>Topic/Purpose</th>
<th>Message ID/ Software Release Range</th>
</tr>
</thead>
<tbody>
<tr>
<td>Requests that actions on the universal tone decoder (UTD) be aborted at the specified location.</td>
<td>ABT:UTD 5E12 and later</td>
</tr>
<tr>
<td>Allows hardware error checks to be performed on the specified universal tone decoder (UTD).</td>
<td>ALW: HDW-UTD 5E12 and later</td>
</tr>
<tr>
<td>Requests that a universal tone decoder (UTD) board be diagnosed to determine if it is in satisfactory working order.</td>
<td>DGN:UTD 5E12 and later</td>
</tr>
<tr>
<td>Interactively diagnoses (exercises) the universal tone detector (UTD).</td>
<td>EX:UTD 5E12 and later</td>
</tr>
<tr>
<td>Inhibits the hardware error checks performed on the specified universal tone decoder (UTD).</td>
<td>INH: HDW-UTD 5E12 and later</td>
</tr>
</tbody>
</table>
### Universal Tone Decoder (UTD) Board Management

<table>
<thead>
<tr>
<th>Message ID/ Software Release Range</th>
<th>Purpose</th>
</tr>
</thead>
<tbody>
<tr>
<td>RMV:UTD 5E12 and later</td>
<td>Requests that a universal tone decoder (UTD) board be removed from service.</td>
</tr>
<tr>
<td>RST:UTD 5E12 and later</td>
<td>Conditionally or unconditionally restores a universal tone decoder (UTD) board, in the local digital service unit, to service.</td>
</tr>
<tr>
<td>STP:UTD 5E12 and later</td>
<td>Requests that actions on the universal tone decoder (UTD) board at the specified location be stopped.</td>
</tr>
</tbody>
</table>

#### Universal Tone Generator (UTG)

<table>
<thead>
<tr>
<th>Message ID/ Software Release Range</th>
<th>Purpose</th>
</tr>
</thead>
<tbody>
<tr>
<td>ABT:UTG 5E12 and later</td>
<td>Requests that actions be aborted on the universal tone generator (UTG) at the specified location.</td>
</tr>
<tr>
<td>ALW:HDW-UTG 5E12 and later</td>
<td>Allows hardware error checks to be performed on the specified universal tone generator (UTG).</td>
</tr>
<tr>
<td>DGN:UTG 5E12 and later</td>
<td>Requests that a universal tone generator (UTG) board be diagnosed to determine if it is in satisfactory working order.</td>
</tr>
<tr>
<td>EX:UTG 5E12 and later</td>
<td>Interactively diagnoses (exercises) the universal tone generator (UTG).</td>
</tr>
<tr>
<td>INH:HDW-UTG 5E12 and later</td>
<td>Inhibits the hardware error checks performed on the specified universal tone generator (UTG).</td>
</tr>
<tr>
<td>RMV:UTG 5E12 and later</td>
<td>Requests that a universal tone generator (UTG) board be removed from service.</td>
</tr>
<tr>
<td>RST:UTG 5E12 and later</td>
<td>Conditionally or unconditionally restores a universal tone generator (UTG) board, in the local digital service unit, to service.</td>
</tr>
<tr>
<td>STP:UTG 5E12 and later</td>
<td>Requests that actions on the universal tone generator (UTG) board at the specified location be stopped.</td>
</tr>
</tbody>
</table>

### Updates

<table>
<thead>
<tr>
<th>Message ID/ Software Release Range</th>
<th>Purpose</th>
</tr>
</thead>
<tbody>
<tr>
<td>IN:REMOTE-REPT 5E12 and later</td>
<td>Requests a report about the current status of the active file receiving process.</td>
</tr>
<tr>
<td>IN:REMOTE-START 5E12 and later</td>
<td>Requests that the administrative module (AM) be put in the remote-file-receive mode.</td>
</tr>
<tr>
<td>IN:REMOTE-STOP 5E12 and later</td>
<td>Requests that the input of update files be terminated from a remote source.</td>
</tr>
<tr>
<td>OP:G-READHDR 5E12 and later</td>
<td>Requests that tape header information and, if present, a volume table of contents (VTOC) be read from a load-disk-from-tape (LDFT) formatted tape and output to the ROP.</td>
</tr>
<tr>
<td>OP:G-READLOG 5E12 and later</td>
<td>Requests output of the central processor or administrative module (AM) system update event log.</td>
</tr>
<tr>
<td>ST:UPDMHGTRKG 5E12 and later</td>
<td>Requests an update of the &quot;cluster&quot; attribute in all tuples of the RLRT_MHG and RLRT_TRKG office dependent data (ODD) relations for a particular multi-module remote switching module (MMRSM) site and updates the RLRTANNGRP relation for affected announcement trunk groups associated with the site.</td>
</tr>
<tr>
<td>STOP:GEN 5E12 and later</td>
<td>Requests that the administrative module (AM) system-update message in progress be stopped.</td>
</tr>
<tr>
<td>STP:EXC-UPD 5E12 and later</td>
<td>Stops current execution of the software update (SU) installation process.</td>
</tr>
<tr>
<td>STP:GEN 5E12 and later</td>
<td>Requests that the administrative module (AM) system-update message in progress be stopped.</td>
</tr>
<tr>
<td>UPD:APPLY-BYTER-B 5E16(1) and later</td>
<td>Requests application of a byte replacement update associated with a software update.</td>
</tr>
<tr>
<td>UPD:APPLY-FILER-B 5E16(1) and later</td>
<td>Requests application of a file replacement update associated with a software update.</td>
</tr>
</tbody>
</table>
Requests application of a function replacement update associated with a software update.  
UPD:APPLY-FUNC R-A  
5E12 - 5E15

Requests update to the software update database after the successful execution of the first input message preceding the first UPD:APPLY message in the APPLY section of the MSGS file in a software update (SU).  
UPD:APPLY-UNIX  
5E12 and later

Requests that the status of software update (SU) process automation be determined and/or changed.  
UPD:AUTO  
5E12 and later

Requests that an office health check be performed (UPD:AUTOCHK) or requests that the results of the last office healthcheck be displayed (UPD:AUTOCHK:STATUS).  
UPD:AUTOCHK  
5E12 and later

Requests that the software update (SU) process automation office profile be changed according to the arguments and values specified in the input message.  
UPD:AUTOPROFILE  
5E12 and later

Requests that the named software update (SU) be scheduled for automatic installation (UPNM option) or requests the status of the currently scheduled SU (STATUS option).  
UPD:AUTOSCHED  
5E12 and later

Requests that software updates be backed out.  
UPD:BACKOUT  
5E12 and later

Requests that the administrative module (AM) minimum-configuration or full-configuration boot image be updated.  
UPD:BLDBOOT  
5E12 and later

Requests that an official software update be blocked or inhibited from being backed out.  
UPD:BLOCk  
5E12 and later

Requests that the last official software update be backed out.  
UPD:BOLO  
5E12 and later

Used during the common network interface (CNI) to host global switching module (GSM) conversion procedure to copy and initialize integrated services user part (ISUP) trunk member data in the host GSM processor.  
UPD:CCS-CUTOVER  
5E15 and later

Used during the common network interface (CNI) platform to host global switching module (GSM) platform conversion procedure to update internal integrated services user part (ISUP) trunk group/member and transaction capability application part (TCAP) application relational data for the  "psu_mod" attribute.  
UPD:CCS-PSUMOD  
5E15 and later

Request to change the name of the apply software update for the easybwm process.  
UPD:CHG-APPLY  
5E12 - 5E13

Request to change the name of the backout software update for the easybwm process.  
UPD:CHG-BKOUT  
5E12 - 5E13

Request to change the name of the install software update for the easybwm process.  
UPD:CHG-INST  
5E12 - 5E13

Request to change the soak timer interval for the install SU in the easybwm process (MCC Page 1940).  
UPD:CHG-SKTM  
5E12 - 5E13

Requests that one or more software updates be cleared from the administrative module (AM) field update directory.  
UPD:CLR  
5E12 and later

Requests that information about administrative module (AM) software updates be displayed.  
UPD:DISPLAY  
5E12 and later

Requests a display of the first portion of the specified section of the software update (SU) MSGS file on the Master Control Center (MCC) 1960 page for the SU that is currently loaded on that same page (using the UPD:UPNAME input message).  
UPD:DISPLAYUPD  
5E12 - 5E13

To enable switching module (SM) or communication module processor (CMP) incore memory to be dumped to a file.  
UPD:DUMPCORE-A  
5E12 - 5E15

To enable switching module (SM) or communication module processor (CMP) incore memory to be dumped to a file.  
UPD:DUMPCORE-B  
5E16(1) and later

Requests execution of all messages in the specified section (APPLY, SOAK, OFC, or BKOUT) of the software update (SU) MSGS file for the SU that is currently loaded on the Master Control Center (MCC) 1960 page.  
UPD:EXALL  
5E12 - 5E13

Requests execution of the next message(s) in the specified section(s) of the software update (SU) MSGS file for the SU that is currently loaded on the Master Control Center (MCC) 1960 page.  
UPD:EXNXT  
5E12 - 5E13

Requests that the software update expansion process that takes place automatically during the download of a compressed software update (SU) be manually stopped (STOP), or requests that any compressed files in the software update specified (UPNM=a) be expanded to their original size so that software update application may begin immediately.  
UPD:EXPAND  
5E12 and later

Requests that function information from a process file's symbol table be displayed for one to
<table>
<thead>
<tr>
<th>Message</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>UPD:G-APPLPROC</td>
<td>Requests execution of the application process, APPLPROC, (/prc/supr/applproc) during a retrofit or update.</td>
</tr>
<tr>
<td>UPD:G-BACKOUT</td>
<td>Requests the start of the application process, APPLPROC, (/prc/supr/applproc) during a retrofit or update.</td>
</tr>
<tr>
<td>UPD:G-BEGIN</td>
<td>Requests the start of the retrofit cycle.</td>
</tr>
<tr>
<td>UPD:G-BEGINSMBKOUT-A</td>
<td>Requests that switching modules (SMs) be switched from module controller/time-slot interchange (MCTSI) side 1 to side 0 and perform an SM retrofit initialization during a retrofit or software release update.</td>
</tr>
<tr>
<td>UPD:G-BEGINSMBKOUT-B</td>
<td>Requests that switching modules (SMs) be switched from module controller/time-slot interchange (MCTSI) side 1 to side 0 and perform an SM retrofit initialization during a retrofit or software release update.</td>
</tr>
<tr>
<td>UPD:G-BEGINSMSWITCH-A</td>
<td>Requests that switching modules (SMs) be switched from module controller/time-slot interchange (MCTSI) side 0 to side 1 and perform an SM retrofit initialization during a retrofit or update.</td>
</tr>
<tr>
<td>UPD:G-BEGINSMSWITCH-B</td>
<td>Requests that switching modules (SMs) be switched from module controller/time-slot interchange (MCTSI) side 0 to side 1 and perform an SM retrofit initialization during a retrofit or update.</td>
</tr>
<tr>
<td>UPD:G-CONTINUE</td>
<td>Requests the completion of the retrofit cycle.</td>
</tr>
<tr>
<td>UPD:G-ENTER</td>
<td>Requests the new software release data to be entered into the administrative module.</td>
</tr>
<tr>
<td>UPD:G-PROCEED</td>
<td>Requests that the administrative module (AM) be prepared for booting from the old software release if it is necessary to back out of the new software release.</td>
</tr>
<tr>
<td>UPD:G-RESTORE</td>
<td>Requests that the old software release be restored by removing the new software release from the administrative module (AM).</td>
</tr>
<tr>
<td>UPD:G-SMBKOUT-A</td>
<td>Requests that the administrative module (AM) be prepared for booting from the new software release.</td>
</tr>
<tr>
<td>UPD:G-SMBKOUT-B</td>
<td>Requests the collection and logging of current out-of-service (OOS) trunks and their statuses during a software release transition (retrofit, update, or large terminal growth).</td>
</tr>
<tr>
<td>UPD:G-SMSWITCH-A</td>
<td>Requests a retrofit switch and initialization on switching modules (SMs) that were switched by the UPD:G-SWITCHFWD input message during a retrofit or update.</td>
</tr>
<tr>
<td>UPD:G-SMSWITCH-B</td>
<td>Requests a retrofit switch and initialization of switching modules (SMs) that are offline pumped and forced during a retrofit or update.</td>
</tr>
<tr>
<td>UPD:G-TSM</td>
<td>Requests a retrofit switch and initialization of switching modules (SMs) that are offline pumped and forced during a retrofit or update.</td>
</tr>
<tr>
<td>UPD:GENP</td>
<td>Requests that inconsistent pumpable switching module (SM) peripherals be removed and restored.</td>
</tr>
<tr>
<td>UPD:HSCHK-A</td>
<td>Requests display of the next portion of MSGS file on the Master Control Center (MCC) 1960 page for the software update (SU) that is currently loaded on the MCC 1960 page.</td>
</tr>
<tr>
<td>UPD:HSCHK-B</td>
<td>Requests updates associated with a temporary software update to be made permanent.</td>
</tr>
<tr>
<td>UPD:IMCAT</td>
<td>Requests that inconsistent pumpable switching module (SM) peripherals be removed and restored.</td>
</tr>
<tr>
<td>UPD:INITPW</td>
<td>Requests that the password, the number of login attempts and/or the key, which are used by the Customer Service Computer Access Network System (CSCANS) interface, be initialized.</td>
</tr>
<tr>
<td>UPD:INSTL</td>
<td>Requests that a pending computer field update (that is, one that has been interrupted) be removed from further consideration.</td>
</tr>
<tr>
<td>UPD:OF</td>
<td>Requests that program update compact switch processor's patch space.</td>
</tr>
<tr>
<td>UPD:OFST</td>
<td>Requests that updates associated with a temporary broadcast warning message (BWM) be made permanent.</td>
</tr>
<tr>
<td>UPD:PMPPERF-A</td>
<td>Requests that updates associated with a temporary broadcast warning message (BWM) be made permanent.</td>
</tr>
<tr>
<td>Requests that inconsistent pumpable switching module (SM) peripherals be removed and restored.</td>
<td>UPD:PMPPERF-B</td>
</tr>
<tr>
<td>--</td>
<td>--</td>
</tr>
<tr>
<td>Requests that execution of an in-progress UPD:PMPPERF input message be stopped.</td>
<td>UPD:PMPPSTOP</td>
</tr>
<tr>
<td>Requests printing of the specified section or all the specified sections of the software update (SU) MSGS file on the read-only printer (ROP).</td>
<td>UPD:PRINT-A</td>
</tr>
<tr>
<td>Request that an the specified file type of a designated software update (SU) be printed to the ROP.</td>
<td>UPD:PRINT-B</td>
</tr>
<tr>
<td>Requests printing of the specified file associated with the software update that is currently loaded on the Master Control Center (MCC) 1960 page on the read-only printer (ROP).</td>
<td>UPD:PRINT-BWM</td>
</tr>
<tr>
<td>Requests the printing of the soak timer information on the read-only printer (ROP).</td>
<td>UPD:PRINT-SKTM</td>
</tr>
<tr>
<td>Requests that the previous portion of the MSGS file be displayed on the Master Control Center (MCC) 1960 page for the software update (SU) that is currently loaded on the MCC 1960 page.</td>
<td>UPD:PRWWNDW</td>
</tr>
<tr>
<td>Requests that the temporary software update pump map be used during an initialization of the switching modules (SMs) or communication module processors (CMPs).</td>
<td>UPD:PUKBWM</td>
</tr>
<tr>
<td>Requests that the official pump map be used during an initialization of the switching modules (SM), SM-2000, or communication module processors (CMPs).</td>
<td>UPD:POFPC</td>
</tr>
<tr>
<td>Requests a program update roll backward or roll forward operation.</td>
<td>UPD:RCVRYS-A</td>
</tr>
<tr>
<td>Requests a program update roll backward or roll forward operation.</td>
<td>UPD:RCVRYS-B</td>
</tr>
<tr>
<td>To update the timer value for a given active remote digital test access (RDTA) session and to change the duration period.</td>
<td>UPD:RDTA</td>
</tr>
<tr>
<td>Requests that the software update database be updated to reflect the backing out of any temporary administrative module (AM) updates active at the time of the reboot.</td>
<td>UPD:REBOOT</td>
</tr>
<tr>
<td>Requests a program update roll backward or roll forward operation.</td>
<td>UPD:RECOVERY</td>
</tr>
<tr>
<td>Requests smaller, more concise software update database entries after all updates on the administrative module (AM) have been made official.</td>
<td>UPD:REDUCE</td>
</tr>
<tr>
<td>Requests that the soak timer duration (TM) of the software update (SU) that is currently soaking be updated, or that the soak timer for the SU that is currently soaking be stopped, or that the line number to be executed next for the SU loaded on the Master Control Center (MCC) 1960 page be changed.</td>
<td>UPD:RESE</td>
</tr>
<tr>
<td>Requests that if an operation to an administrative module (AM) field update fails, that update's status may be 'reset' to a previously 'accepted' state.</td>
<td>UPD:RESET-3B</td>
</tr>
<tr>
<td>Requests the setting of the software update (SU), the SOAK timer and the completed stage where the installation execution is to stop.</td>
<td>UPD:SET</td>
</tr>
<tr>
<td>Requests that the SOAK timer either have its default time changed, timer restarted, timer report printed or timer canceled.</td>
<td>UPD:SKTM</td>
</tr>
<tr>
<td>Requests that execution of the software update easybwm process be started.</td>
<td>UPD:START-EASY</td>
</tr>
<tr>
<td>Request that the SU installation process be stopped.</td>
<td>UPD:STOP-INSTL</td>
</tr>
<tr>
<td>This input message should be used in conjunction with easy software update (SU) installation.</td>
<td>UPD:STOP-SOAK</td>
</tr>
<tr>
<td>Requests verification of software update consistency and a summary of any software update inconsistencies that exist in the system.</td>
<td>UPD:UPDCON</td>
</tr>
<tr>
<td>Requests information about updates to the system through software update procedures.</td>
<td>UPD:UPDDISPLY</td>
</tr>
<tr>
<td>Requests a check for the existence of a software update (SU) in the base directory, and if the SU exists it is loaded on to the Master Control Center (MCC) 1960 page.</td>
<td>UPD:UPNAME</td>
</tr>
<tr>
<td>Requests update of the text version and/or software update level of the file system partitions.</td>
<td>UPD:VERSION</td>
</tr>
<tr>
<td>Requests that software updates which are updates in the field update directory be updated.</td>
<td>UPD:VFY</td>
</tr>
<tr>
<td>Requests verification of the content of a software update, the name of which has been entered using the UPD:UPNAME input message.</td>
<td>UPD:VFYBWM</td>
</tr>
<tr>
<td>Requests verification of update consistency and a summary of all update inconsistencies that exist in the system.</td>
<td>UPD:VFYCON-A</td>
</tr>
</tbody>
</table>
Requests verification of update consistency and a summary of all update inconsistencies that exist in the system.

**UPD:VFYCON-B**
5E16(1) and later

## 243. USER LEVEL AUTOMATIC RESTART

<table>
<thead>
<tr>
<th>Topic/Purpose</th>
<th>Message ID/ Software Release Range</th>
</tr>
</thead>
<tbody>
<tr>
<td>Initializes the UNIX® level automatic restart process (ULARP).</td>
<td>INIT:ULARP 5E12 and later</td>
</tr>
<tr>
<td>Requests the status of run input messages.</td>
<td>OP:ULARP-COM 5E12 and later</td>
</tr>
<tr>
<td>Requests a listing of the execution sequence of child processes and run input message during a bootstrap or user initialization procedure.</td>
<td>OP:ULARP-EXEC 5E12 and later</td>
</tr>
<tr>
<td>Requests the status of UNIX® level automatic restart process (ULARP) child processes.</td>
<td>OP:ULARP-PROC 5E12 and later</td>
</tr>
</tbody>
</table>

## 244. USER PART

<table>
<thead>
<tr>
<th>Topic/Purpose</th>
<th>Message ID/ Software Release Range</th>
</tr>
</thead>
<tbody>
<tr>
<td>To request status of the user part specified by the input originating point code (OPC)/destination point code (DPC) pair.</td>
<td>OP:UPART 5E16(1) and later</td>
</tr>
</tbody>
</table>

## 245. UTILITIES

<table>
<thead>
<tr>
<th>Topic/Purpose</th>
<th>Message ID/ Software Release Range</th>
</tr>
</thead>
<tbody>
<tr>
<td>Requests that generic utility WHEN breakpoint clauses in the communication module processors (CMP) be allowed or enabled.</td>
<td>ALW:UT-CMP 5E12 and later</td>
</tr>
<tr>
<td>Requests that generic utility WHEN clauses in the packet interface unit (PI) be allowed or enabled.</td>
<td>ALW:UT-MCTSI-PI 5E12 and later</td>
</tr>
<tr>
<td>Requests that generic utility WHEN breakpoint clauses in the packet switch unit protocol handler (PSUPH) be allowed or enabled.</td>
<td>ALW:UT-PSUPH-A 5E12 - 5E15</td>
</tr>
<tr>
<td>Requests that generic utility WHEN breakpoint clauses in the packet switch unit protocol handler (PSUPH) be allowed or enabled.</td>
<td>ALW:UT-PSUPH-B 5E16(1) and later</td>
</tr>
<tr>
<td>Requests that generic utility WHEN breakpoint clauses in the switching module (SM) be allowed or enabled.</td>
<td>ALW:UT-SM 5E12 and later</td>
</tr>
<tr>
<td>Requests that all currently defined administrative module (AM) generic access package (GRASP) breakpoints be enabled so that the associated actions are executed when the breakpoint conditions occur.</td>
<td>ALW:UTIL 5E12 and later</td>
</tr>
<tr>
<td>Requests that a specific administrative module (AM) generic access package (GRASP) breakpoint be enabled so that the associated actions are executed when the breakpoint condition occurs.</td>
<td>ALW:UTILFLAG 5E12 and later</td>
</tr>
<tr>
<td>Requests that one specific WHEN clause or all WHEN clauses from both the application program and the memory of the communication module processor (CMP) be removed.</td>
<td>CLR:UT-CMP 5E12 and later</td>
</tr>
<tr>
<td>Requests that one specific WHEN clause or all WHEN clauses from both the application program and the memory of the packet interface (PI) unit be removed.</td>
<td>CLR:UT-MCTSI-PI 5E12 and later</td>
</tr>
<tr>
<td>Requests that one specific WHEN clause or all WHEN clauses from both the application program and the memory of the packet switch unit protocol handler (PSUPH) be removed.</td>
<td>CLR:UT-PSUPH-A 5E12 - 5E15</td>
</tr>
<tr>
<td>Requests that one specific WHEN clause or all WHEN clauses from both the application program and the memory of the packet switch unit protocol handler (PSUPH) be removed.</td>
<td>CLR:UT-PSUPH-B 5E16(1) and later</td>
</tr>
<tr>
<td>Requests that one specific WHEN clause or all WHEN clauses be removed from both the application program and the memory of the switching module (SM).</td>
<td>CLR:UT-SM 5E12 and later</td>
</tr>
<tr>
<td>Removes all currently defined administrative module (AM) generic access package (GRASP) breakpoints; clears definitions.</td>
<td>CLR:UTIL 5E12 and later</td>
</tr>
<tr>
<td>Removes the specified administrative module (AM) generic access package (GRASP) breakpoint and clears the definition.</td>
<td>CLR:UTILFLAG 5E12 and later</td>
</tr>
<tr>
<td>Requests that a value be copied into an address, register, global variable (specified by name or symbol index), or utility variable of the packet interface (PI) unit and optionally perform any of the following operations.</td>
<td>COPY:UT-MCTSI-PI 5E12 and later</td>
</tr>
<tr>
<td>Requests that a value be copied into an address, register, global variable (specified for name or symbol index), or utility variable of the packet switch unit protocol handler (PSUPH), and optionally perform specific operations.</td>
<td>COPY:UT-PSUPH-A</td>
</tr>
<tr>
<td>Requests that a value be copied into an address, register, global variable (specified for name or symbol index), or utility variable of the packet switch unit protocol handler (PSUPH), and optionally perform specific operations.</td>
<td>5E12 - 5E14</td>
</tr>
<tr>
<td>Requests that a value be copied into an address, register, global variable (specified for name or symbol index), or utility variable of the packet switch unit protocol handler (PSUPH), and optionally perform specific operations.</td>
<td>COPY:UT-PSUPH-B</td>
</tr>
<tr>
<td>Requests that a value be copied into an address, register, variable, or utility variable of the switching module (SM), and can perform specific operations.</td>
<td>5E15 only</td>
</tr>
<tr>
<td>Requests that a value be copied into an address, register, variable, or utility variable of the switching module (SM), and can perform specific operations.</td>
<td>COPY:UT-SM-A</td>
</tr>
<tr>
<td>Requests that the contents of one or more sequential memory locations in the specified communications module processor (CMP) be dumped.</td>
<td>DUMP:UT-CMP-A</td>
</tr>
<tr>
<td>Requests that the contents of one or more sequential memory locations in the specified communications module processor (CMP) be dumped.</td>
<td>5E12 - 5E14</td>
</tr>
<tr>
<td>Requests that the contents of one or more sequential memory locations in the specified communications module processor (CMP) be dumped.</td>
<td>DUMP:UT-CMP-B</td>
</tr>
<tr>
<td>Requests that the contents of one or more sequential memory locations in the specified communications module processor (CMP) be dumped.</td>
<td>5E15 only</td>
</tr>
<tr>
<td>Requests that the contents of one or more sequential memory locations in the specified communications module processor (CMP) be dumped.</td>
<td>DUMP:UT-CMP-C</td>
</tr>
<tr>
<td>Requests that the contents of one or more sequential memory locations in the specified communications module processor message handler (CMPMSG) be dumped.</td>
<td>5E12 - 5E14</td>
</tr>
<tr>
<td>Requests that the contents of one or more sequential memory locations in the specified communications module processor message handler (CMPMSG) be dumped.</td>
<td>DUMP:UT-CMPMSG-A</td>
</tr>
<tr>
<td>Requests that the contents of one or more sequential memory locations in the specified communications module processor message handler (CMPMSG) be dumped.</td>
<td>5E15 and later</td>
</tr>
<tr>
<td>Requests that the contents of one or more sequential memory locations in the specified communications module processor message handler (CMPMSG) be dumped.</td>
<td>DUMP:UT-CMPMSG-B</td>
</tr>
<tr>
<td>Requests that the contents of one or more sequential memory locations in the specified digital networking unit - synchronous optical network (SONET) (DNU-S) common controller (CC) be dumped.</td>
<td>DUMP:UT-DNUS</td>
</tr>
<tr>
<td>Requests that the contents of one or more sequential memory locations in the specified foundation peripheral controller (FPC) be dumped.</td>
<td>5E12 and later</td>
</tr>
<tr>
<td>Requests that the contents of one or more sequential memory locations in the specified foundation peripheral controller (FPC) be dumped.</td>
<td>COPY:UT-FPC-A</td>
</tr>
<tr>
<td>Requests that the contents of one or more sequential memory locations in the specified foundation peripheral controller (FPC) be dumped.</td>
<td>5E12 - 5E14</td>
</tr>
<tr>
<td>Requests that the contents of one or more sequential memory locations in the specified foundation peripheral controller (FPC) be dumped.</td>
<td>COPY:UT-FPC-B</td>
</tr>
<tr>
<td>Requests that the contents of one or more sequential memory locations in the specified integrated digital carrier unit (IDCU) be dumped.</td>
<td>5E15 and later</td>
</tr>
<tr>
<td>Requests that the contents of one or more sequential memory locations in the specified integrated digital carrier unit (IDCU) be dumped.</td>
<td>DUMP:UT-IDCU</td>
</tr>
<tr>
<td>Requests that the contents of one or more sequential memory locations in the specified integrated digital carrier unit (IDCU) loop side interface (LSI) be dumped.</td>
<td>5E12 and later</td>
</tr>
<tr>
<td>Requests that the contents of one or more sequential memory locations in the specified integrated digital carrier unit (IDCU) loop side interface (LSI) be dumped.</td>
<td>DUMP:UT-IDCULSI</td>
</tr>
<tr>
<td>Requests that the contents of one or more sequential memory locations in the specified integrated services line unit common controller (ISLUC) be dumped.</td>
<td>5E12 and later</td>
</tr>
<tr>
<td>Requests that the contents of one or more sequential memory locations in the specified integrated services line unit common controller (ISLUC) be dumped.</td>
<td>DUMP:UT-ISLUC</td>
</tr>
<tr>
<td>Requests that the contents of one or more sequential memory locations in the specified message handler (MH) unit be dumped.</td>
<td>5E12 and later</td>
</tr>
<tr>
<td>Requests that the contents of one or more sequential memory locations in the specified message handler (MH) unit be dumped.</td>
<td>DUMP:UT-MCTSI-MH</td>
</tr>
<tr>
<td>Requests that the contents of one or more sequential memory locations in the specified packet interface (PI) unit be dumped.</td>
<td>5E12 - 5E15</td>
</tr>
<tr>
<td>Requests that the contents of one or more sequential memory locations in the specified packet interface (PI) unit be dumped.</td>
<td>DUMP:UT-MCTSI-PI-A</td>
</tr>
<tr>
<td>Requests that the contents of one or more sequential memory locations in the specified packet interface (PI) unit be dumped.</td>
<td>5E12 - 5E15</td>
</tr>
<tr>
<td>Requests that the contents of one or more sequential memory locations in the specified packet interface (PI) unit be dumped.</td>
<td>DUMP:UT-MCTSI-PI-B</td>
</tr>
<tr>
<td>Requests that the contents of one or more sequential memory locations in the specified module message processor (MMP) be dumped.</td>
<td>5E12(1) and later</td>
</tr>
<tr>
<td>Requests that the contents of one or more sequential memory locations in the specified module message processor (MMP) be dumped.</td>
<td>DUMP:UT-MMP-A</td>
</tr>
<tr>
<td>Requests that the contents of one or more sequential memory locations in the specified module message processor (MMP) be dumped.</td>
<td>5E12 - 5E14</td>
</tr>
<tr>
<td>Requests that the contents of one or more sequential memory locations in the specified module message processor (MMP) be dumped.</td>
<td>DUMP:UT-MMP-B</td>
</tr>
<tr>
<td>Requests that the contents of one or more sequential memory locations in the specified module message processor (MMP) be dumped.</td>
<td>5E15 and later</td>
</tr>
<tr>
<td>Requests that the contents of one or more sequential memory locations in the specified module message processor (MMP) be dumped.</td>
<td>DUMP:UT-MMP-C</td>
</tr>
<tr>
<td>Requests that the contents of one or more sequential memory locations in the specified module message switch (MGSS) be dumped.</td>
<td>5E15 and later</td>
</tr>
<tr>
<td>Requests that the contents of one or more sequential memory locations in the specified module message switch (MGSS) be dumped.</td>
<td>DUMP:UT-MGSS</td>
</tr>
<tr>
<td>Requests that the contents of one or more sequential memory locations in the specified office network and timing complex processor (CNTC) be dumped.</td>
<td>5E15 and later</td>
</tr>
<tr>
<td>Requests that the contents of one or more sequential memory locations in the specified office network and timing complex processor (CNTC) be dumped.</td>
<td>DUMP:UT-ONTC</td>
</tr>
<tr>
<td>Requests that the contents of one or more sequential memory locations in the specified pump peripheral controller (PPC) be dumped.</td>
<td>5E12 - 5E14</td>
</tr>
<tr>
<td>Requests that the contents of one or more sequential memory locations in the specified pump peripheral controller (PPC) be dumped.</td>
<td>DUMP:UT-PPC-A</td>
</tr>
<tr>
<td>Requests that the contents of one or more sequential memory locations in the specified pump peripheral controller (PPC) be dumped.</td>
<td>5E15 and later</td>
</tr>
<tr>
<td>Requests that the contents of one or more sequential memory locations in the specified pump peripheral controller (PPC) be dumped.</td>
<td>DUMP:UT-PPC-B</td>
</tr>
<tr>
<td>Requests that the contents of one more sequential memory locations in the specified packet switch unit protocol handler (PSUPH) be dumped.</td>
<td>5E12 - 5E14</td>
</tr>
<tr>
<td>Requests that the contents of one more sequential memory locations in the specified packet switch unit protocol handler (PSUPH) be dumped.</td>
<td>DUMP:UT-PSUPH-A</td>
</tr>
<tr>
<td>Requests that the contents of one more sequential memory locations in the specified packet switch unit protocol handler (PSUPH) be dumped.</td>
<td>5E15 only</td>
</tr>
<tr>
<td>Requests that the contents of one more sequential memory locations in the specified packet switch unit protocol handler (PSUPH) be dumped.</td>
<td>DUMP:UT-PSUPH-B</td>
</tr>
<tr>
<td>Requests that the contents of one more sequential memory locations in the specified packet switch unit protocol handler (PSUPH) be dumped.</td>
<td>5E16(1) and later</td>
</tr>
<tr>
<td>Requests that the contents of one more sequential memory locations in the specified packet switch unit protocol handler (PSUPH) be dumped.</td>
<td>DUMP:UT-PSUPH-C</td>
</tr>
<tr>
<td>Requests that the contents of one or more sequential memory locations in the specified packet interface (PI) unit be dumped.</td>
<td>5E12 - 5E15</td>
</tr>
<tr>
<td>Requests that the contents of one or more sequential memory locations in the specified packet interface (PI) unit be dumped.</td>
<td>DUMP:UT-MCTSI-PI-A</td>
</tr>
<tr>
<td>Requests that the contents of one or more sequential memory locations in the specified packet interface (PI) unit be dumped.</td>
<td>5E12 - 5E15</td>
</tr>
<tr>
<td>Requests that the contents of one or more sequential memory locations in the specified packet interface (PI) unit be dumped.</td>
<td>DUMP:UT-MCTSI-PI-B</td>
</tr>
<tr>
<td>Requests that the contents of one or more sequential memory locations in the specified packet interface (PI) unit be dumped.</td>
<td>5E12(1) and later</td>
</tr>
<tr>
<td>Requests that the contents of one or more sequential memory locations in the specified packet interface (PI) unit be dumped.</td>
<td>DUMP:UT-MCTSI-PI-C</td>
</tr>
<tr>
<td>Requests that the contents of one or more sequential memory locations in the specified pump peripheral controller (PPC) be dumped.</td>
<td>5E15 and later</td>
</tr>
<tr>
<td>Requests that the contents of one or more sequential memory locations in the specified pump peripheral controller (PPC) be dumped.</td>
<td>DUMP:UT-PPC-A</td>
</tr>
<tr>
<td>Requests that the contents of one or more sequential memory locations in the specified pump peripheral controller (PPC) be dumped.</td>
<td>5E15 and later</td>
</tr>
<tr>
<td>Requests that the contents of one or more sequential memory locations in the specified pump peripheral controller (PPC) be dumped.</td>
<td>DUMP:UT-PPC-B</td>
</tr>
<tr>
<td>Requests that the contents of one or more sequential memory locations in the specified pump peripheral controller (PPC) be dumped.</td>
<td>5E15 and later</td>
</tr>
<tr>
<td>Requests that the contents of one more sequential memory locations in the specified packet switch unit protocol handler (PSUPH) be dumped.</td>
<td>DUMP:UT-PSUPH-A</td>
</tr>
<tr>
<td>Requests that the contents of one more sequential memory locations in the specified packet switch unit protocol handler (PSUPH) be dumped.</td>
<td>5E12 - 5E14</td>
</tr>
<tr>
<td>Requests that the contents of one more sequential memory locations in the specified packet switch unit protocol handler (PSUPH) be dumped.</td>
<td>DUMP:UT-PSUPH-B</td>
</tr>
<tr>
<td>Requests that the contents of one more sequential memory locations in the specified packet switch unit protocol handler (PSUPH) be dumped.</td>
<td>5E16(1) and later</td>
</tr>
<tr>
<td>Requests that the contents of one more sequential memory locations in the specified packet switch unit protocol handler (PSUPH) be dumped.</td>
<td>DUMP:UT-PSUPH-C</td>
</tr>
<tr>
<td>Request</td>
<td>Version</td>
</tr>
<tr>
<td>------------------------------------------------------------------------</td>
<td>------------------</td>
</tr>
<tr>
<td>Requests that the contents of one or more sequential memory locations in the specified quad-link packet switch (QLPS) gateway processor (GQP) be dumped.</td>
<td>5E12 - 5E14</td>
</tr>
<tr>
<td>Requests that the contents of one or more sequential memory locations in the specified quad-link packet switch (QLPS) gateway processor (GQP) be dumped.</td>
<td>5E15 and later</td>
</tr>
<tr>
<td>Requests that the contents of one or more sequential memory locations in the specified switching module (SM) be dumped.</td>
<td>DUMP:UT-SM-A</td>
</tr>
<tr>
<td>Requests that the contents of one or more sequential memory locations in the specified switching module (SM) be dumped.</td>
<td>DUMP:UT-SM-B</td>
</tr>
<tr>
<td>Requests that the contents of one or more sequential memory locations in the specified switching module (SM) be dumped.</td>
<td>5E16(1) only</td>
</tr>
<tr>
<td>Requests that the contents of one or more sequential memory locations in the specified switching module (SM) be dumped.</td>
<td>5E16(2) and later</td>
</tr>
<tr>
<td>Requests that symbolic information be dumped from the common object file format (COFF) file defined by the processor or path identified in the input message.</td>
<td>DUMP:UT-SYMID-A</td>
</tr>
<tr>
<td>Requests that symbolic information be dumped from the common object file format (COFF) file defined by the processor or path identified in the input message.</td>
<td>DUMP:UT-SYMID-B</td>
</tr>
<tr>
<td>Requests that symbolic information be dumped from the common object file format (COFF) file defined by the processor or path identified in the input message.</td>
<td>DUMP:UT-SYMID-C</td>
</tr>
<tr>
<td>Requests that the contents of one or more sequential memory locations in the specified digital networking unit - synchronous optical network (SONET) (DNU-S) transmission multiplexer (TMUX) be dumped.</td>
<td>DUMP:UT-TMUX</td>
</tr>
<tr>
<td>Requests that the conditional ELSE input message used with the IF input message perform any communications module processor (CMP) generic utility input messages following it, provided the IF input message comparison is not true.</td>
<td>ELSE:UT-CMP</td>
</tr>
<tr>
<td>Requests that the conditional ELSE input message used with the IF input message perform any packet interface (PI) unit generic utility input messages following it, provided the IF input message comparison is not true (refer to the IF:UT-MCTSI-PI input message).</td>
<td>ELSE:UT-MCTSI-PI</td>
</tr>
<tr>
<td>Requests that the conditional ELSE input message used with the IF input message perform any packet switch unit protocol handler (PSUPH) generic utility input messages following it, provided the IF input message comparison is not true.</td>
<td>ELSE:UT-PSUPH-A</td>
</tr>
<tr>
<td>Requests that the conditional ELSE input message used with the IF input message perform any packet switch unit protocol handler (PSUPH) generic utility input messages following it, provided the IF input message comparison is not true.</td>
<td>ELSE:UT-PSUPH-B</td>
</tr>
<tr>
<td>Requests that the conditional ELSE input message used with the IF input message perform any packet switch unit protocol handler (PSUPH) generic utility input messages following it, provided the IF input message comparison is not true.</td>
<td>5E16(1) and later</td>
</tr>
<tr>
<td>Conditional ELSE input message used with the IF input message perform any switching module (SM) generic utility input messages following it, provided the IF input message comparison is not true.</td>
<td>ELSE:UT-SM</td>
</tr>
<tr>
<td>Requests that a series of communication module processor (CMP) generic utility input messages be ended.</td>
<td>END:UT-CMP</td>
</tr>
<tr>
<td>Requests that a series of communication module processor (CMP) generic utility input messages be ended.</td>
<td>5E12 and later</td>
</tr>
<tr>
<td>Requests that a series of packet interface unit (PI) generic utility input messages be ended.</td>
<td>END:UT-MCTSI-PI</td>
</tr>
<tr>
<td>Requests that a series of packet interface unit (PI) generic utility input messages be ended.</td>
<td>5E12 and later</td>
</tr>
<tr>
<td>Requests that a series of packet switch unit protocol handler (PSUPH) generic utility input messages be ended. (Refer to the input messages listed in the REFERENCES section).</td>
<td>END:UT-PSUPH-A</td>
</tr>
<tr>
<td>Requests that a series of packet switch unit protocol handler (PSUPH) generic utility input messages be ended.</td>
<td>END:UT-PSUPH-B</td>
</tr>
<tr>
<td>Requests that a series of packet switch unit protocol handler (PSUPH) generic utility input messages be ended.</td>
<td>5E16(1) and later</td>
</tr>
<tr>
<td>Requests that a series of switching module (SM) generic utility input messages be ended.</td>
<td>END:UT-SM</td>
</tr>
<tr>
<td>Requests that a series of switching module (SM) generic utility input messages be ended.</td>
<td>5E12 and later</td>
</tr>
<tr>
<td>Marks the end of a list of administrative module (AM) generic access package (GRASP) messages to be performed when a specified breakpoint condition exists.</td>
<td>END:WHEN</td>
</tr>
<tr>
<td>Format 1 requests that an unconditional call to a function using parameters in the specified communication module processor (CMP) be executed.</td>
<td>EXC:UT-CMP-A</td>
</tr>
<tr>
<td>Format 1 requests that an unconditional call to a function using parameters in the specified communication module processor (CMP) be executed.</td>
<td>5E12 - 5E14</td>
</tr>
<tr>
<td>Format 1 requests that an unconditional call to a function using parameters in the specified communication module processor (CMP) be executed.</td>
<td>EXC:UT-CMP-B</td>
</tr>
<tr>
<td>Format 1 requests that an unconditional call to a function using parameters in the specified communication module processor (CMP) be executed.</td>
<td>5E15 and later</td>
</tr>
<tr>
<td>Requests that an unconditional call to a function using parameters in the specified communication module processor (CMP) message handler (CMPMSGH) be executed.</td>
<td>EXC:UT-CMPMSG-A</td>
</tr>
<tr>
<td>Requests that an unconditional call to a function using parameters in the specified communication module processor (CMP) message handler (CMPMSGH) be executed.</td>
<td>5E12 - 5E14</td>
</tr>
<tr>
<td>Requests that an unconditional call to a function using parameters in the specified communication module processor (CMP) message handler (CMPMSGH) be executed.</td>
<td>EXC:UT-CMPMSG-B</td>
</tr>
<tr>
<td>Requests that an unconditional call be made to a function using parameters in the specified digital networking unit - SONET (DNU-S).</td>
<td>EXC:UT-DNUS</td>
</tr>
<tr>
<td>Requests that an unconditional call to a function using parameters in the specified foundation peripheral controller (FPC) be executed.</td>
<td>EXC:UT-FPC-A</td>
</tr>
<tr>
<td>Requests that an unconditional call to a function using parameters in the specified foundation peripheral controller (FPC) be executed.</td>
<td>5E12 - 5E14</td>
</tr>
<tr>
<td>Requests that an unconditional call to a function using parameters in the specified foundation peripheral controller (FPC) be executed.</td>
<td>EXC:UT-FPC-B</td>
</tr>
<tr>
<td>Requests that an unconditional call be made to a function using parameters in the specified</td>
<td>EXC:UT-IDCU</td>
</tr>
<tr>
<td>Integrated digital carrier unit (IDCU).</td>
<td>5E12 and later</td>
</tr>
<tr>
<td>Requests that an unconditional call be made to a function using parameters in the specified integrated digital carrier unit (IDCU) loop side interface (LSI).</td>
<td>EXC:UT-IDCULSI</td>
</tr>
<tr>
<td>Requests that an unconditional call be made to a function using parameters in the specified integrated services line unit common controller (ISLUCC).</td>
<td>5E12 and later</td>
</tr>
<tr>
<td>Requests that an unconditional call be made to a function using parameters in the specified message handler (MH) unit.</td>
<td>EXC:UT-MCTSI-MH-A</td>
</tr>
<tr>
<td>Format 1 requests that an unconditional call be made to a function using parameters in the specified message handler (MH) unit be executed.</td>
<td>5E12 - 5E16(1)</td>
</tr>
<tr>
<td>Format 1 requests that an unconditional call be made to a function using parameters in the specified peripheral interface (PI) unit be executed.</td>
<td>EXC:UT-MCTSI-PI</td>
</tr>
<tr>
<td>Requests that an unconditional call be made to a function using parameters in the specified module message processor (MMP) be executed.</td>
<td>5E12 and later</td>
</tr>
<tr>
<td>Requests that an unconditional call be made to a function using parameters in the specified module message processor (MMP) be executed.</td>
<td>EXC:UT-MMP-B</td>
</tr>
<tr>
<td>Requests that an unconditional call be made to a function using parameters in the specified module message processor (MMP) be executed.</td>
<td>5E15 and later</td>
</tr>
<tr>
<td>Requests that an unconditional call be made to a function using parameters in the specified message switch (MSGS) be executed.</td>
<td>EXC:UT-MSGS</td>
</tr>
<tr>
<td>Requests that an unconditional call be made to a function using parameters in the specified office network and timing complex processor (ONTC) be executed.</td>
<td>5E15 and later</td>
</tr>
<tr>
<td>Requests that an unconditional call be made to a function using parameters in the specified pump peripheral controller (PPC) be executed.</td>
<td>EXC:UT-PPC-A</td>
</tr>
<tr>
<td>Requests that an unconditional call be made to a function using parameters in the specified pump peripheral controller (PPC) be executed.</td>
<td>5E12 - 5E14</td>
</tr>
<tr>
<td>Format 1 requests that an unconditional call be made to a function using parameters in the specified packet switch (QLPS) gateway processor (QGP) be executed.</td>
<td>EXC:UT-QGP-A</td>
</tr>
<tr>
<td>Requests that an unconditional call be made to a function using parameters in the specified packet switch (QLPS) gateway processor (QGP) be executed.</td>
<td>5E12 - 5E14</td>
</tr>
<tr>
<td>Format 1 requests that an unconditional call be made to a function using parameters in the specified switching module (SM) be executed.</td>
<td>EXC:UT-SM-A</td>
</tr>
<tr>
<td>Requests that an unconditional call be made to a function using parameters in the specified switching module (SM) be executed.</td>
<td>5E12 - 5E14</td>
</tr>
<tr>
<td>Requests that an unconditional call be made to a function using parameters in the specified digital networking unit - SONET (DNU-S) transmission multiplexer (TMUX).</td>
<td>EXC:UT-TMUX</td>
</tr>
<tr>
<td>Requests that a constant or variable in a communication module processor's (CMP) memory be compared against another constant or variable in the CMP memory.</td>
<td>IF:UT-CMP-A</td>
</tr>
<tr>
<td>Requests that a constant or variable in a communication module processor's (CMP) memory be compared against another constant or variable in the CMP memory.</td>
<td>5E12 - 5E14</td>
</tr>
<tr>
<td>Requests that an IF-ELSE statement in the communication module processor (CMP) and must be used in combination with the IF:UT-CMP input message.</td>
<td>IF:UT-CMP-ENDIF</td>
</tr>
<tr>
<td>Requests that an IF-ELSE statement in the packet interface (PI) unit and must be used in combination with the IF:UT-MCTSI-PI input message.</td>
<td>IF:UT-MCTSI-PE</td>
</tr>
<tr>
<td>Requests that a constant or variable in a packet interface (PI) unit memory be compared against another constant or variable in the PI memory.</td>
<td>IF:UT-MCTSI-PI</td>
</tr>
<tr>
<td>Requests that a constant or variable in a packet switch unit protocol handler's (PSUPH) memory be compared against another constant or variable in the PSUPH memory.</td>
<td>IF:UT-PSUPH-A</td>
</tr>
<tr>
<td>Requests that a constant or variable in a packet switch unit protocol handler's (PSUPH) memory be compared against another constant or variable in the PSUPH memory.</td>
<td>5E12 - 5E14</td>
</tr>
<tr>
<td>Requests that a constant or variable in a packet switch unit protocol handler's (PSUPH) memory be compared against another constant or variable in the PSUPH memory.</td>
<td>IF:UT-PSUPH-B</td>
</tr>
<tr>
<td>Requests that a constant or variable in a packet switch unit protocol handler's (PSUPH) memory be compared against another constant or variable in the PSUPH memory.</td>
<td>5E15 only</td>
</tr>
<tr>
<td>Requests that a constant or variable in a packet switch unit protocol handler's (PSUPH) memory be compared against another constant or variable in the PSUPH memory.</td>
<td>IF:UT-PSUPH-C</td>
</tr>
<tr>
<td>Requests that a constant or variable in a packet switch unit protocol handler's (PSUPH) memory be compared against another constant or variable in the PSUPH memory.</td>
<td>5E16(1) and later</td>
</tr>
<tr>
<td>Requests that an IF-ELSE statement in the packet switch unit protocol handler (PSUPH) and must be used in combination with the IF:UT-PSUPH input message.</td>
<td>IF:UT-PSUPH-END-A</td>
</tr>
<tr>
<td>Requests that an IF-ELSE statement in the packet switch unit protocol handler (PSUPH) and must be used in combination with the IF:UT-PSUPH input message.</td>
<td>5E12 - 5E15</td>
</tr>
<tr>
<td>Requests that an IF-ELSE statement in the packet switch unit protocol handler (PSUPH) and must be used in combination with the IF:UT-PSUPH input message.</td>
<td>IF:UT-PSUPH-END-B</td>
</tr>
<tr>
<td>Requests that a constant or variable in a switching module’s (SM) memory be compared against another constant or variable in the SM memory.</td>
<td>IF:UT-SM-A</td>
</tr>
<tr>
<td>Requests that a constant or variable in a switching module’s (SM) memory be compared against another constant or variable in the SM memory.</td>
<td>5E12 - 5E16(1)</td>
</tr>
<tr>
<td>Requests that a constant or variable in a switching module’s (SM) memory be compared against another constant or variable in the SM memory.</td>
<td>IF:UT-SM-B</td>
</tr>
</tbody>
</table>
against another constant or variable in the SM memory. 5E16(2) and later
Requests that the end of an IF-ELSE statement be signified in the switching module (SM) and
must be used together with the IF:UT-SM input message. IF:UT-SM-ENDIF
5E12 and later
Requests that a specific generic utility WHEN clause in the communications module
processor (CMP), or all such active clauses, be inhibited. INH:UT-CMP
5E12 and later
Requests that a specific generic utility WHEN clause in the packet interface (PI) unit, or all
such active clauses, be inhibited. INH:UT-MCTSI-PI
5E12 and later
Requests that a specific generic utility WHEN clause in the packet switch unit protocol handler
(PSUPH), or all such active clauses, be inhibited. INH:UT-PSUPH-A
5E12 - 5E15
Requests that a specific generic utility WHEN clause in the packet switch unit protocol handler
(PSUPH), or all such active clauses, be inhibited. INH:UT-PSUPH-B
5E16(1) and later
Disables (but leaves defined) all administrative module (AM) generic access package
(GRASP) breakpoints. INH:UTIL
5E12 and later
Disables (but leaves defined) a specific central processor (CP) generic access package
(GRASP) breakpoint. INH:UTILFLAG
5E12 and later
Requests that a value(s) be loaded into the memory of the specified communication module
processor (CMP). LOAD:UT-CMP
5E12 and later
Requests that a value(s) be loaded into the memory of the specified communication module
processor (CMP) message handler (CMPMSG). LOAD:UT-CMPMSG-A
5E12 - 5E14
Requests that a value(s) be loaded into the memory of the specified communication module
processor (CMP) message handler (CMPMSG). LOAD:UT-CMPMSG-B
5E15 and later
Requests that a value(s) be loaded into the memory of the specified digital networking unit -
SONET (DNU-S). LOAD:UT-DNUS
5E12 and later
Requests that a value be loaded into the memory of the specified foundation peripheral
controller (FPC). LOAD:UT-FPC-A
5E12 - 5E14
Requests that a value be loaded into the memory of the specified foundation peripheral
controller (FPC). LOAD:UT-FPC-B
5E15 and later
Requests that a value be loaded into the memory of the specified integrated digital carrier unit
(IDCUC). LOAD:UT-IDCU
5E12 and later
Requests that a value be loaded into the memory of the specified integrated digital carrier unit
(IDCUC) loop side interface (LSI). LOAD:UT-IDCULSI
5E12 and later
Requests that a value be loaded into the memory of the specified integrated services line unit
common controller (ISLUCC). LOAD:UT-ISLUCC
5E12 and later
Requests that a value(s) be loaded into the memory of the specified message handler (MH)
unit. LOAD:UT-MCTSI-MH
5E12 and later
Requests that a value be loaded into the memory of the specified peripheral interface (PI)
unit. LOAD:UT-MCTSI-PI
5E12 and later
Requests that a value be loaded into the memory of the specified peripheral interface message
processor (MMP). LOAD:UT-MMP-A
5E12 - 5E14
Requests that a value be loaded into the memory of the specified peripheral interface message
processor (MMP). LOAD:UT-MMP-B
5E15 and later
Requests that a value(s) be loaded into the memory of the specified message switch (MSGS).
LOAD:UT-MSGS
5E15 and later
Requests that a value(s) be loaded into the memory of the specified office network and timing
complex processor (ONTC). LOAD:UT-ONTC
5E15 and later
Requests that a value be loaded into the memory of the specified pump peripheral controller
(PPC). LOAD:UT-PPC-A
5E12 - 5E14
Requests that a value be loaded into the memory of the specified pump peripheral controller
(PPC). LOAD:UT-PPC-B
5E15 and later
Requests that a value(s) be loaded into the memory of the specified packet switch unit
protocol handler (PSUPH). LOAD:UT-PSUPH-A
5E12 - 5E15
Requests that a value(s) be loaded into the memory of the specified packet switch unit
protocol handler (PSUPH). LOAD:UT-PSUPH-B
5E16(1) and later
Requests that a value(s) be loaded into the memory of the specified quad-link packet switch
(QLPS) gateway processor (QGP). LOAD:UT-QGP-A
5E12 - 5E14
Requests that a value(s) be loaded into the memory of the specified quad-link packet switch
(QLPS) gateway processor (QGP). LOAD:UT-QGP-B
5E15 and later
Requests that a value(s) be loaded into the memory of the specified switching module (SM).
LOAD:UT-SM
5E12 and later
Requests that a value(s) be loaded into the memory of the specified time multiplex switch
(TMS). LOAD:UT-TMS-A
5E12 - 5E14
Requests that a value(s) be loaded into the memory of the specified time multiplex switch (TMS).

**LOAD:**UT-TMS-B  
5E15 and later

Requests that a value be loaded into the memory of the specified digital networking unit - SONET (DNU-S) transmission multiplexer (TMUX).

**LOAD:**UT-TMUX  
5E12 and later

Requests a report on the status of one or all of the generic utilities WHEN (breakpoint) clauses in the communications module processor (CMP).

**OP:**UT-CMP  
5E12 and later

Requests a report on the status of one or all of the generic utilities WHEN clauses in the specified packet interface unit (PI).

**OP:**UT-MCTSI-PI  
5E12 and later

Requests a report on the status of one or all of the generic utilities WHEN (breakpoint) clauses in the specified packet switch unit protocol handler (PSUPH).

**OP:**UT-PSUPH-A  
5E12 - 5E15

Requests a report on the status of one or all of the generic utilities WHEN clauses in the specified packet switch unit protocol handler (PSUPH).

**OP:**UT-PSUPH-B  
5E16(1) and later

Requests a report on the status of one or all of the generic utilities WHEN (breakpoint) clauses in the switching module (SM).

**OP:**UT-SM  
5E12 and later

Requests a utility call trace snapshot of the resources used by an in-progress call, and to update the hardware call trace Master Control Center (MCC) page with new trace data.

**TRC:**UTIL-A  
5E12 only

Requests a utility call trace snapshot of the resources used by an in-progress call, and to update the hardware call trace Master Control Center (MCC) page with new trace data.

**TRC:**UTIL-B  
5E13 - 5E14

Requests a utility call trace snapshot of the resources used by an in-progress call, and to update the hardware call trace Master Control Center (MCC) page with new trace data.

**TRC:**UTIL-C  
5E15 - 5E16(1)

Requests a utility call trace snapshot of the resources used by an in-progress call, and to update the hardware call trace Master Control Center (MCC) page with new trace data.

**TRC:**UTIL-D  
5E16(2) and later

Format 1 requests that a temporary generic utility WHEN breakpoint be defined using an address of an application program in the specified communications module processor (CMP).

**WHEN:**UT-CMP-A  
5E12 - 5E14

Format 1 requests that a temporary generic utility WHEN breakpoint be defined using an address of an application program in the specified communications module processor (CMP).

**WHEN:**UT-CMP-B  
5E15 and later

Format 1 requests that a temporary generic utility WHEN breakpoint be defined using an address of an application program in the specified packet interface unit (PI).

**WHEN:**UT-MCTSI-PI  
5E12 and later

Format 1 requests that a temporary generic utility WHEN breakpoint be defined using an address of an application program in the specified packet switch unit protocol handler (PSUPH).

**WHEN:**UT-PSUPH-A  
5E12 - 5E14

Format 1 requests that a temporary generic utility WHEN breakpoint be defined using an address of an application program in the specified packet switch unit protocol handler (PSUPH).

**WHEN:**UT-PSUPH-B  
5E15 only

Format 1 requests that a temporary generic utility WHEN breakpoint be defined using an address of an application program in the specified packet switch unit protocol handler (PSUPH).

**WHEN:**UT-PSUPH-C  
5E16(1) and later

Requests a temporary generic utility breakpoint be defined using and address of an application program in the specified switching module (SM/SM-2000).

**WHEN:**UT-SM-A  
5E12 - 5E16(1)

Requests a temporary generic utility breakpoint be defined using and address of an application program in the specified switching module (SM/SM-2000).

**WHEN:**UT-SM-B  
5E16(2) and later

### 246. UTILITY CALL TRACE

<table>
<thead>
<tr>
<th>Topic/Purpose</th>
<th>Message ID/ Software Release Range</th>
</tr>
</thead>
</table>
| Request output containing the busy/idle status of T1 facility channels, and how they are populated with circuit switched voice (CSV) and circuit switched data (CSD) (DS0 and/or wideband) calls. | **OP:**CHANMAP-A  
5E12 only |
| Request output containing the busy/idle status of T1 facility channels, and how they are populated with circuit switched voice (CSV) and circuit switched data (CSD) (DS0 and/or wideband) calls. | **OP:**CHANMAP-B  
5E13 and later |

### 247. UTILITY VARIABLE

<table>
<thead>
<tr>
<th>Topic/Purpose</th>
<th>Message ID/ Software Release Range</th>
</tr>
</thead>
</table>
| Requests that data be copied from an administrative module (AM) generic access package (GRASP) in utility variable to virtual addresses in main memory and in registers as an action associated with a breakpoint. | **COPY:**UVAR  
5E12 and later |
Dumps the contents of one or more administrative module (AM) generic access package (GRASP) utility variables either as an immediate message or as an action associated with a breakpoint.

<table>
<thead>
<tr>
<th>Topic/Purpose</th>
<th>Message ID/ Software Release Range</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dumps the contents of one or more administrative module (AM) generic access package (GRASP) utility variables either as an immediate message or as an action associated with a breakpoint.</td>
<td>DUMP:UVAR 5E12 and later</td>
</tr>
</tbody>
</table>

Loads administrative module (AM) generic access package (GRASP) utility variable with specified data as an immediate operation or as an action associated with a breakpoint.

<table>
<thead>
<tr>
<th>Topic/Purpose</th>
<th>Message ID/ Software Release Range</th>
</tr>
</thead>
<tbody>
<tr>
<td>Loads administrative module (AM) generic access package (GRASP) utility variable with specified data as an immediate operation or as an action associated with a breakpoint.</td>
<td>LOAD:UVAR 5E12 and later</td>
</tr>
</tbody>
</table>

## 248. VIRTUAL NETWORK CONFERENCE RESOURCE

<table>
<thead>
<tr>
<th>Topic/Purpose</th>
<th>Message ID/ Software Release Range</th>
</tr>
</thead>
<tbody>
<tr>
<td>Requests that a virtual network conference resource (VNCR) be removed from service.</td>
<td>RMV:VNCR 5E14 and later</td>
</tr>
</tbody>
</table>

Conditionally or unconditionally restores a virtual network conference resource (VNCR) on a call feature server (CFS).

<table>
<thead>
<tr>
<th>Topic/Purpose</th>
<th>Message ID/ Software Release Range</th>
</tr>
</thead>
<tbody>
<tr>
<td>Conditionally or unconditionally restores a virtual network conference resource (VNCR) on a call feature server (CFS).</td>
<td>RST:VNCR 5E14 and later</td>
</tr>
</tbody>
</table>

## 249. VIRTUAL TRIBUTARY

<table>
<thead>
<tr>
<th>Topic/Purpose</th>
<th>Message ID/ Software Release Range</th>
</tr>
</thead>
<tbody>
<tr>
<td>Requests that the currently executing maintenance action on a virtual tributary - level 1.5 (VT15) be aborted.</td>
<td>ABT:VT15 5E16(1) and later</td>
</tr>
</tbody>
</table>

Requests that a virtual tributary - level 1.5 (VT15) be removed from service either conditionally, by waiting for it to become idle, or unconditionally, by preempting the current user.

<table>
<thead>
<tr>
<th>Topic/Purpose</th>
<th>Message ID/ Software Release Range</th>
</tr>
</thead>
<tbody>
<tr>
<td>Requests that a virtual tributary - level 1.5 (VT15) be removed from service either conditionally, by waiting for it to become idle, or unconditionally, by preempting the current user.</td>
<td>RMV:VT15 5E16(1) and later</td>
</tr>
</tbody>
</table>

Requests that a virtual tributary - level 1.5 (VT15) be restored to service.

<table>
<thead>
<tr>
<th>Topic/Purpose</th>
<th>Message ID/ Software Release Range</th>
</tr>
</thead>
<tbody>
<tr>
<td>Requests that a virtual tributary - level 1.5 (VT15) be restored to service.</td>
<td>RST:VT15 5E16(1) and later</td>
</tr>
</tbody>
</table>

Requests that the currently executing maintenance action on a virtual tributary - level 1.5 (VT15) be stopped.

<table>
<thead>
<tr>
<th>Topic/Purpose</th>
<th>Message ID/ Software Release Range</th>
</tr>
</thead>
<tbody>
<tr>
<td>Requests that the currently executing maintenance action on a virtual tributary - level 1.5 (VT15) be stopped.</td>
<td>STP:VT15 5E16(1) and later</td>
</tr>
</tbody>
</table>
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Software Release: 5E12 and later

1. ACCESS INTERFACE UNIT

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ABT:AIULC
ABT:AIULP
ABT:AIUPIDB
ABT:AIURG
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DGN:AIUCOM
DGN:AIULC
DGN:AIULP
DGN:AIURG
DGN:AIUTSGRP
INH:HDW-AIU
RMV:AIUCOM
RMV:AIULC
RMV:AIULP
RMV:AIUPIDB
RMV:AIURG
RST:AIUCOM
RST:AIULC
RST:AIULP
RST:AIUPIDB
RST:AIURG
STP:AIUCOM
STP:AIULC
STP:AIULP
STP:AIUPIDB
STP:AIURG
SW:AIUCOM

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ALW:ERRINT
ALW:ERRSRC
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INH:ERRCHK
INH:ERRINT
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SW:ASM

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CLR:ASPTQ-B
CLR:ASPTQ-C
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OP:INIT
OP:OFL
OP:STBY
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SET:ASPTQ-B
SET:ASPTQ-C
SET:ASPTQ-D
SET:ASPTQ-E
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TST:ASPTQ-A
TST:ASPTQ-B
TST:ASPTQ-C
TST:ASPTQ-D
VFY:FILE

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UPD:SSD

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CHG:ALM
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OP:ALM-B
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CLR:FANALM-A
CLR:FANALM-B
CLR:LAMPS

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DGN:ASC
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INIT:AM-SPP-A
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9. ASYNCHRONOUS TRANSFER MODE

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DEL:PROFL
DEL:TAUTH
DEL:TCGRP
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VFY:PAUTH
VFY:PCGRP
VFY:PROFL
VFY:TAUTH
VFY:TCGRP

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13. AUTOMATIC CALL GAPPING CONTROL

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14. AUTOMATIC CUSTOMER STATION REARRANGEMENT

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CPY:AMATAPE
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INH:AMA-SESSION
INH:AMAIRR
INH:AMALOST
INH:AMATRC
OP:AMA
OP:AMA-CONFIG
OP:AMA-CONTROLF
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OP:AMA-MAINT
OP:AMA-MAPS
OP:AMA-SEQ
OP:AMA-SESSION
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INH:CAMAONI

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SCHED:APT
STP:APT

20. AUTOMATIC PROTECTION SWITCH

CLR:PSALNK
OP:APSSTAT
SET:PSALNK

21. AUTOMATIC TRUNK TEST SCHEDULER

DUMP:ATDTA
DUMP:ATLOG
DUMP:ATPRM
OP:ATTS
OP:GENBKUP-LAST
RCV:M-GENBKUP
ST:ATTS
STP:ATTS
TST:BNS
TST:CCRD

22. AUTOPLEX®

22.1 AUTOPLEX® mobile phone service

OP:AFAC
23. BACKUP

OP:BKUP

24. BEARER INDEPENDENT CALL CONTROL

ALW:BICCCQ-A
ALW:BICCCQ-B
CLR:BICCBMOVE
EXC:BICCBMOVE
EXC:BICCCQ
INH:BICCCQ
OP:BICC
OP:BICCBBLK
OP:BICCBMOVE
OP:BICCCQ
RMV:BICCCADN
RST:BICCCADN
SND:BICCMSG
STP:BICC
STP:BICCBMOVE
STP:BICCCQ

25. BILLING

STP:BCI

26. BOOT DISK

OP:ABD

27. BOOTSTRAP

ABT:BTSR
DGN:BTSR
EX:BTSR
RMV:BTSR
RST:BTSR
STP:BTSR
TST:BTSR

28. BREAKPOINTS

ALW:UTIL
ALW:UTILFLAG
CLR:UTIL
CLR:UTILFLAG
INH:UTIL
29. BREVITY CONTROL

ALW:BCI
ALW:BREVC-A
ALW:BREVC-B
CHG:MSGCNTL-A
CHG:MSGCNTL-B
CLR:MGDSC
INH:BREVC-A
INH:BREVC-B
OP:BREVC
OP:MGDSC

30. BROADCAST WARNING MESSAGE

CLR:ACKDB
OP:VERSION
UPD:BLOCK
UPD:CLRBWM
UPD:VERSION
UPD:VFYBWM

30.1 Program Update Page

CLR:PUPAGE
SET:PUPAGE

31. BUSINESS AND RESIDENCE CUSTOM SERVICES

EXC:BRCS
OP:BRCS-STATUS
STP:BRCS

32. CALL

OP:BCI

32.1 Call Monitor

ALW:CALLMON
CLR:CALLMON
INH:CALLMON
OP:CALLMON
RTR:CALLMON
SET:CALLMON
32.2 Call Trace

ALW:TRACE
INH:TRACE
OP:TRACE
OP:TRC
SET:TRACE
TRC:CLID
TRC:IPCT-A
TRC:IPCT-B
TRC:UTIL-A
TRC:UTIL-B
TRC:UTIL-C
TRC:UTIL-D
TST:LINE-ELS

32.3 Reorder

ALW:REORD-SM
INH:REORD

32.4 Switch Cutoff

ALW:SCORPT
INH:SCORPT

32.5 Transient Calls Lost

ALW:TCLRPT
INH:TCLRPT

33. CAMPED-ON UNITS

OP:CAMPON-A
OP:CAMPON-B
STP:CAMPON-A
STP:CAMPON-B
STP:CAMPON-C
STP:CAMPON-D

34. CARRIER GROUP ALARM

CLR:CGAP
OP:CGA-A
OP:CGA-B
OP:CGA-C
OP:CGAP
SET:CGAP-A
35. CENTRALIZED TRUNK TESTING UNIT

CLR:PB
OP:PB
SET:PB

36. CHECKSUM

OP:ST-SUM

37. CLOCKS

OP:CLK
SET:CLK-5
SET:CLK-A
SET:CLK-B

38. COMMAND HISTORY

ALW:HIST
CLR:HIST
EXC:PREV
INH:HIST

39. COMMON CHANNEL SIGNALING

ALW:CCS-PSLT
ALW:CCSCQ
TST:GSMNET

40. COMMON LINK NORMALIZATION

ALW:CLNORM
INH:CLNORM
INIT:CLNORM

41. COMMON NETWORK INTERFACE

ALW:RUTIL
ALW:RUTILFLAG
CFR:RING
CHG:GEN
CHG:SRVT
CLR:MINMODE-CNI
CLR:RUTIL
41.1 Ring Peripheral Controller Node

42. COMMON OBJECT FILE FORMAT

43. COMMUNICATIONS MODULE
44. COMMUNICATION MODULE PROCESSOR

ABT:CMP
ALW:AUD-CMP
ALW:HDW-CMP
ALW:UT-CMP
AUD:CMP
CLR:UT-CMP
COPY:UT-CMP-A
COPY:UT-CMP-B
DGN:CMP
DUMP:UT-CMP-A
DUMP:UT-CMP-B
DUMP:UT-CMP-C
DUMP:UT-CMPMSG-A
DUMP:UT-CMPMSG-B
ELSE:UT-CMP
END:UT-CMP
EX:CMP
EXC:UT-CMP-A
EXC:UT-CMP-B
EXC:UT-CMPMSG-A
EXC:UT-CMPMSG-B
IF:UT-CMP-A
IF:UT-CMP-B
IF:UT-CMP-ENDIF
INH:AUD-CMP
INH:HDW-CMP
INH:UT-CMP
INIT:CMP
INIT:CMP-SPP
LOAD:UT-CMP
LOAD:UT-CMPMSG-A
LOAD:UT-CMPMSG-B
OP:POSTMORT-CMP
OP:ST-AUD-CMP-A
OP:ST-AUD-CMP-B
OP:UT-CMP
RMV:CMP
RST:CMP
ST:OPUMP-CMP
STP:AUD-CMP
STP:CMP
STP:SW
SW:CMP
WHEN:UT-CMP-A
WHEN:UT-CMP-B
45. COMMUNICATIONS LINK

ABT:CLNK
ALW:HDW-CLNK
INH:HDW-CLNK
RMV:CLNK
RST:CLNK

45.1 Communications Link Digital Facility Interface

ABT:CDFI
ALW:HDW-CDFI
DGN:CDFI
EX:CDFI
RMV:CDFI
RST:CDFI
STP:CDFI

46. CONTROL DATA INTERFACE

ABT:CDI
DGN:CDI
EX:CDI
RMV:CDI
RST:CDI
STP:CDI
OP:TRC

47. CONTROL UNIT

AUD:CUMEM
AUD:CUSTAT
DGN:CU
EX:CU
RMV:CU
RST:CU
SW:CU

48. COPYING

COPY:ACTDISK
COPY:ADDR
COPY:BKDISK
COPY:DIFF-SRC-MHD
COPY:ECD-TAPE
COPY:FSYS-CFILE
COPY:FSYS-FILE
COPY:ODD-TAPE
COPY:OOSDISK
49. CUSTOMER

49.1 Customer Account Services

TST:CAS
TST:CAS7

49.2 Customer Premise Equipment

OP:CPE
RMV:CPE
RST:CPE
TST:WSCPE

50. CUSTOMER ORIGINATED TRACE

OP:COT-STATUS
SET:COT

51. CUSTOMER SERVICE COMPUTER ACCESS NETWORK SYSTEM

UPD:CSCANS-REPT
UPD:CSCANS-STOP

52. CUTOVER AND CUTBACK

EXC:CO

53. DEBUGGING

ALW:DEBUG-A
ALW:DEBUG-B
54. DEFAULT CELL GROUP

ALW:DCGRPT
STP:DCGRPT

55. DEFENSE SWITCH NETWORK

CLR:DSNM5
INIT:DSNPAGE
OP:DSNM5
SET:DSNM5

56. DESTINATION CODE CANCELLATION

CLR:DCC
OP:DCC
SET:DCC

57. DIAGNOSTIC TESTS

EX:LDPARM
EX:LOOP
EX:PAUSE
EX:STEP
EX:STOP
OP:TAG
STP:DGN-A
STP:DGN-B

58. DIGITAL AUDIO TAPE

COPY:BKTAPE
DUMP:BKTAPE

59. DIGITAL FACILITY INTERFACE

ABT:DFI
ALW:HDW-DFI
DGN:DFI
EX:DFI
RMV:DFI
RST:DFI
STP:DFI
59.1 Communications Link Digital Facilities Interface

ABT:CDFI
ALW:HDW-CDFI
DGN:CDFI
EX:CDFI
RMV:CDFI
RST:CDFI
STP:CDFI

59.2 Digital Facility Interface Circuit Pair

ABT:DFIH
ALW:HDW-DFIH
DGN:DFIH
EX:DFIH
INH:HDW-DFIH
RMV:DFIH
RST:DFIH
STP:DFIH

60. DIGITAL NETWORK UNIT - SONET

ABT:DNUSSCC
ABT:DNUSSCD
ABT:RMV-RT
ABT:RST-RT
ALW:HDW-DNUSSCC
ALW:HDW-DNUSSCD
DGN:DNUSSCC
DGN:DNUSSCD
DUMP:UT-DNU
EXC:UT-DNU
INH:HDW-DNUSSCC
INH:HDW-DNUSSCD
LOAD:UT-DNU
RMV:DNUSSCC
RMV:DNUSSCD
RMV:DNUSEOC
RMV:DNUSTMC
RMV:EC1STE
RMV:RTFAC
RST:DNUSSCC
RST:DNUSSCD
RST:DNUSEOC
RST:DNUSTMC
RST:EC1STE
RST:RTFAC
STP:DNUSSCC
STP:DNUSSCD
60.1 Synchronous Transport Signal Electrical Interface Facility Interface

ABT:SFI
ALW:HDW-SFI
DGN:SFI
INH:HDW-SFI
RMV:SFI
RST:SFI
STP:SFI
SW:SFI

60.2 Synchronous Transport Signal Facility

OP:PTRC-STSFAC-A
OP:PTRC-STSFAC-B
RMV:STSFAC-A
RMV:STSFAC-B
RST:STSFAC-A
RST:STSFAC-B
STP:STSFAC

60.3 Transmission Multiplexer

ABT:TMUX
ALW:HDW-TMUX
DGN:TMUX
DUMP:UT-TMUX
EXC:UT-TMUX
INH:HDW-TMUX
LOAD:UT-TMUX
RMV:TMUX
RST:TMUX
STP:TMUX

60.4 Virtual Tributary Level 1 Facility

RMV:VT1FAC-A
61. DIGITAL SERVICE CIRCUIT

DGN:DSC
INH:HDW-DFI
RMV:DSC
RST:DSC

62. DIGITAL SIGNAL LEVEL 1 FACILITY

ABT:DS1SFAC-A
ABT:DS1SFAC-B
RMV:DS1SFAC-A
RMV:DS1SFAC-B
RST:DS1
RST:DS1SFAC-A
RST:DS1SFAC-B
STP:DS1
STP:DS1SFAC

63. DIRECT LINK NODE

ALW:DLNHB
INH:DLNHB
INIT:DLN
INIT:DLN-SPP-PID
SW:DLN

64. DIRECT SIGNALING

64.1 Direct Signaling Events

CLR:DSE
SET:DSE

64.2 Direct Signaling Translation Test

EXC:DSTT

65. DIRECT USER INTERFACE

RMV:DUI
RST:DUI
65.1 Direct User Interface Controller

DGN:DUIC  
EX:DUIC  
RMV:DUIC  
RST:DUIC

66. DIRECTLY CONNECTED OFFICE

OP:DCOFC

67. DIRECTLY COUPLED TEST UNIT

67.1 Directly Coupled Test Unit Common Board

ABT:DCTUCOM  
DGN:DCTUCOM  
EX:DCTUCOM  
RMV:DCTUCOM  
RST:DCTUCOM  
STP:DCTUCOM

67.2 Directly Coupled Test Unit Port Circuit

ABT:DCTUPORT  
DGN:DCTUPORT  
EX:DCTUPORT  
RMV:DCTUPORT  
RST:DCTUPORT  
STP:DCTUPORT

67.3 Equipment Access Network

ABT:EAN  
DGN:EAN  
EX:EAN  
RMV:EAN  
RST:EAN  
STP:EAN

67.4 Precision Measurement Unit

ABT:PMU  
DGN:PMU  
EX:PMU  
RMV:PMU  
RST:PMU  
STP:PMU
68. DISK FILE CONTROLLER

DGN:DFC
EX:DFC
OP:DFC-INFO
OP:DFCELOG
RMV:DFC
RST:DFC
UPD:FLASH-DFC

69. DISTRIBUTE POINT BOARD

ABT:DIST
DGN:DIST
EX:DIST
RMV:DIST
RST:DIST
STP:DIST

70. DISTRIBUTING FRAME TEST ACCESS CIRCUIT

ABT:DFTAC
DGN:DFTAC
EX:DFTAC
INH:HDW-DFTAC
RMV:DFTAC
RST:DFTAC
STP:DFTAC

71. DIVISION OF REVENUE HOURLY REPORT

ALW:DRHR
INH:DRHR
OP:MEASTAT-A
OP:MEASTAT-B

72. DMERT APPLICATION PROCESS

ALW:AUD-ENV
AUD:ENV
INH:AUD-ENV
OP:ST-AUD-ENV-A
OP:ST-AUD-ENV-B
OP:ST-AUD-SM-A
OP:ST-AUD-SM-B
STP:AUD-ENV

73. DUAL LINK INTERFACE
74. DUAL SERIAL CHANNEL/COMPUTER INTERCONNECT

DGN:DCI
EX:DCI
RMV:DCI
RST:DCI
STOP:DCI

75. DUMP

DGN:MHD
DUMP:ADDR
DUMP:CACHE
DUMP:F-ALL
DUMP:F-FORMAT
DUMP:F-PARTL
DUMP:KERN
DUMP:MHD-BLOCK
DUMP:MHD-DEFECT
DUMP:MHD-VTOC
DUMP:PID
DUMP:PMEM
DUMP:REG
DUMP:SMEAS
DUMP:UID
DUMP:UT-IDCU
DUMP:UT-IDCULSI
DUMP:UVAR

76. DYNAMIC OVERLOAD CONTROLS

ALW:DOC
ASGN:DOC-A
ASGN:DOC-B
ASGN:DOC-C
CLR:DOC
INH:DOC

76.1 Dynamic Overload Controls and Selective Incoming Load Control

ALW:DSILC
INH:DSILC
77. EMBEDDED OPERATIONS CHANNEL

OP:RT-CHAN
RMV:DNUSEOC
RMV:IDCUEOC
RMV:RT-EOC
RST:DNUSEOC
RST:IDCUEOC
RST:RT-EOC
STP:DNUSEOC
STP:IDCUEOC
SW:DNUSEOC
SW:IDCUEOC
SW:RT-EOC

78. EMERGENCY ACTION INTERFACE

ALW:EAIINT
INH:EAIINT

79. EMERGENCY DUMP

CLR:EMERDMP
OP:EMERSTAT

80. ENHANCED 911

CLR:ESA
OP:ESA
SET:ESA
TST:E911

81. EQUIPMENT CONFIGURATION DATA

ALW:ECDAUD
AUD:ECD
CMPR:DISK-CORE
EXC:ECDAUD
INH:ECDAUD
OP:ECDAUD
OP:OUTCLS
OP:SCHD
SCHED:ECDAUD
STOP:ECDAUD

82. ERROR SOURCES

ALW:ERRCHK
83. ESSENTIAL SERVICE PROTECTION

ALW:ESP
INH:ESP

84. EXTERNAL SANITY MONITOR

CLR:ESM

85. FACILITY PERFORMANCE MONITORING ALERT

INH:FAC-A
INH:FAC-B
INH:FAC-C
INH:FAC-D

86. FAULT ANALYSIS

86.1 Fault Analysis Trouble Locating Procedure

RCV:M-FATLP

87. FEATURE ACTIVATION COUNTING AND RECONCILIATION

ALW:EON5REPT
ALW:ESQREPT
DEL:FACR
EXC:FACR
INH:EON5REPT
INH:ESQREPT
INIT:FACR
OP:FACR
SCHED:FACR
STP:FACR

88. FILES

AUD:FILES
IN:F-APND
IN:F-DEL
IN:F-REPL
OP:FNAME

89. FILE SYSTEMS
90. FIVE MINUTE SURVEILLANCE

CLR:M5-A
CLR:M5-B
CLR:M5-C
CLR:M5-D
CLR:M5-E
OP:M5-A
OP:M5-B
OP:M5-C
OP:M5-D
OP:M5-E
OP/M5PKG-A
OP/M5PKG-B
SET:M5-A
SET:M5-B
SET:M5-C
SET:M5-D
SET:M5-E

91. FORCED CONFIGURATION

CLR:FRC-MSCU
CLR:FRC-ONTCCOM
CLR:FRC-TRCU3
SET:FRC-MSCU
SET:FRC-ONTCCOM
SET:FRC-TRCU3

92. FOUNDATION PERIPHERAL CONTROLLER

ABT:FPC
ALW:HDW-FPC
DGN:FPC
93. GATED DIODE CROSSPOINT

93.1 Gated Diode Crosspoint Access

ABT:GDXACC
ALW:HDW-GDXACC
DGN:GDXACC
EX:GDXACC
INH:HDW-GDXACC
RMV:GDXACC
RST:GDXACC
STP:GDXACC

93.2 Gated Diode Crosspoint Compensator

ABT:GDXC
DGN:GDXC
EX:GDXC
INH:HDW-GDXC
RMV:GDXC
RST:GDXC
STP:GDXC

93.3 Gated Diode Crosspoint Control

ABT:GDXCON
ALW:HDW-GDXCON
DGN:GDXCON
EX:GDXCON
INH:HDW-GDXCON
RMV:GDXCON
RST:GDXCON
STP:GDXCON
SW:GDXCON

93.4 Gated Diode Crosspoint Grid
94. GENERIC ACCESS PROGRAM

ALW: UMEM
CLR: UMEM
COPY: PID
COPY: UID
DUMP: PID
DUMP: UID
IN: DTIME
INH: UMEM
INIT: UC
INIT: UMEM
OP: UMEM
WHEN: COND
WHEN: PID
WHEN: UID

95. GLOBAL DIGITAL SERVICES FUNCTION

ABT: GDSF
ALW: HDW-GDSF
DGN: GDSF
EX: GDSF
INH: HDW-GDSF
RMV: GDSF
RST: GDSF
STP: GDSF

96. GLOBAL DIGITAL SERVICE UNIT COMMON BOARD

ABT: GDSUCOM
ALW: HDW-GDSUCOM
DGN: GDSUCOM
EX: GDSUCOM
INH: HDW-GDSUCOM
RMV: GDSUCOM
RST: GDSUCOM
STP: GDSUCOM

97. GLOBAL SWITCHING MODULE
INIT:SCCP
OP:CCS-ACDPC
OP:CCS-ACTLK
OP:CCS-CLS
OP:CCS-DPC
OP:CCS-DPCLS
OP:CCS-GSM-A
OP:CCS-GSM-B
OP:CCS-LSCLS
OP:CCS-MON
OP:CCS-SCMG
OP:CCS-SLS
OP:ST-CCSLK
OP:ST-GSMNET-A
OP:ST-GSMNET-B
OP:ST-MD
OP:ST-NGSMNET-A
OP:ST-NGSMNET-B
RMV:CCSLK
RMV:MD
RST:CCSLK
RST:MD
TST:CCSLK
TST:GSMNET

98. HARD-TO-REACH

CLR:MHTR
OP:HTR

99. HARDWARE CHECKS

ALW:HDW-CDI
ALW:HDW-CLNK
ALW:HDW-CM
ALW:HDW-DCLU
ALW:HDW-DCTUCOM
ALW:HDW-DFI
ALW:HDW-DFIH
ALW:HDW-DNUSCC
ALW:HDW-DNUSCD
ALW:HDW-FPC
ALW:HDW-GDSF
ALW:HDW-GDSUCOM
ALW:HDW-GDXACC
ALW:HDW-GDXCON
ALW:HDW-GRID
ALW:HDW-GRIDBD
ALW:HDW-HDFI
ALW:HDW-IDCU
100. HIGH-SPEED SYNCHRONOUS DATA LINK

RMV:HSD
RST:HSD

100.1 High-Speed Synchronous Data Link Controller

DGN:HSDC
EX:HSDC
RMV:HSDC
RST:HSDC

101. HIGH PRIORITY REMOTE INTERFACE

CLR:HPRI
OP:HPRI
SET:HPRI

102. INHIBITS

OP:ERRCHK

103. IN-PROCESS CALL TRACING

TRC:IPCT-A
TRC:IPCT-B

104. INPUT/OUTPUT PROCESSOR

DGN:IOP
EX:IOP
OP:IOP
RMV:IOP
RST:IOP

104.1 Input/Output Processor Driver
105. INPUT MESSAGE CATALOG

CLR:IMCAT

106. INTEGRATED DIGITAL CARRIER UNIT

ABT:IDCU
ABT:IDCUELI
ABT:IDCUPIDB
ABT:RMV-RT
ABT:RST-RT
ALW:HDW-IDCU
ALW:HDW-IDCUELI
ALW:RT-REPT
CNVT:RT
DGN:IDCU
DUMP:UT-IDCU
DUMP:UT-IDCULSI
EX:IDCU
EXC:RT-PROV
INH:HDW-IDCU
INH:HDW-IDCUELI
INH:RT-REPT
LOAD:UT-IDCU
LOAD:UT-IDCULSI
OP:RT-PROV
OP:RT-REPT
RMV:IDCU
RMV:IDCUELI
RMV:IDCUEOC
RMV:IDCUPIDB
RMV:IDCUTMC
RST:IDCU
RST:IDCUELI
RST:IDCUEOC
RST:IDCUPIDB
RST:IDCUTMC
STP:IDCU
STP:IDCUELI
STP:IDCUEOC
STP:IDCUPIDB
STP:IDCUTMC
STP:RMV-RT
STP:RST-RT
SW:IDCU
SW:IDCUEOC
SW:IDCUTMC

107. INTEGRATED SERVICES DIGITAL NETWORK

CLR:ISUP
EXC:RDTA-A
EXC:RDTA-B
EXC:RDTA-C
EXC:RDTA-D
OP:LISTOTO
OP:RDTA-A
OP:RDTA-B
OP:RDTA-C
OP:RDTA-D
SET:ISUP
STP:RDTA
UPD:RDTA
VFY:RDTA-A
VFY:RDTA-B
VFY:RDTA-C
VFY:RDTA-D

108. INTEGRATED SERVICES LINE UNIT

ABT:ISLUCC
ABT:ISLUCD
ALW:HDW-ISLU
ALW:HDW-ISLUCD
ALW:MISMATCH
DGN:ISLUCC
DGN:ISLUCD
DGN:ISLULC
DGN:ISLULGC
EX:ISLUCC
EX:ISLUCD
EX:ISLULC
EX:ISLULGC
INH:HDW-ISLUCC
INH:HDW-ISLUCD
INH:MISMATCH
OP:HIST
OP:HISTORY-A
OP:HISTORY-B
OP:HISTORY-C
RMV:ISLUCC
RMV:ISLUCD
RMV:ISLULC
RMV:ISLULGC
RST:ISLUCC
RST:ISLUCC
RST:ISLUCC
RST:ISLULGC
STP:ISLUCC
108.1 Integrated Services Line Unit Common Controller

ALW:HDW-ISLUCC
DUMP:UT-ISLUCC
EXC:UT-ISLUCC
LOAD:UT-ISLUCC
RMV:ISLUCC

108.2 Integrated Services Line Unit High Level Service Circuit

ABT:ISLUHLSC
ALW:HDW-ISLUHLSC
DGN:ISLUHLSC
EX:ISLUHLSC
INH:HDW-ISLUHLSC
RMV:ISLUHLSC
RST:ISLUHLSC
STP:ISLUHLSC

108.3 Integrated Services Line Unit Integrated Services Test Function

ABT:ISTF
ALW:HDW-ISTF
DGN:ISTF
EX:ISTF
INH:HDW-ISTF
RMV:ISTF
RST:ISTF
STP:ISTF

108.4 Integrated Services Line Unit Line Board

ABT:ISLULBD
DGN:ISLULBD
EX:ISLULBD
RMV:ISLULBD
RST:ISLULBD
STP:ISLULBD

108.5 Integrated Services Line Unit Line Circuit

ABT:ISLULCKT
DGN:ISLULCKT
108.6 Integrated Services Line Unit Line Group

ABT:ISLULG
DGN:ISLULG
RMV:ISLULG
RST:ISLULG
STP:ISLULG

108.7 Integrated Services Line Unit Metallic Access Network

ABT:ISLULC
ABT:ISLULGC
ABT:ISLUMAN
ALW:HDW-ISLUMAN
DGN:ISLUMAN
EX:ISLUMAN
INH:HDW-ISLUMAN
RMV:ISLUMAN
RST:ISLUMAN
STP:ISLUMAN

108.8 Integrated Services Line Unit Peripheral Interface Data Bus

ABT:ISLUPIDB
DUMP:UT-MCTSI-PI-A
DUMP:UT-MCTSI-PI-B
EXC:UT-MCTSI-PI
LOAD:UT-MCTSI-PI
RMV:ISLUPIDB
RST:ISLUPIDB
STP:ISLUPIDB

108.9 Integrated Services Line Unit Ringing Generator

ABT:ISLURG
ALW:HDW-ISLURG
DGN:ISLURG
EX:ISLURG
INH:HDW-ISLURG
RMV:ISLURG
RST:ISLURG
STP:ISLURG

109. INTER-WORKING GATEWAY
110. INTER-WORKING UNIT

ABT:IWUFAC
RMV:IWUFAC
RST:IWUFAC
STP:IWUFAC

111. JOB STATUS

OP:JOBSTATUS-A
OP:JOBSTATUS-B

112. LIBRARY PROGRAM

ABT:LIB
CLR:LIB
LOAD:LIB
OP:LIB-DISK
OP:LIB-STATUS
ST:LIB
STP:LIB
TELL:LIB

113. LINE INSULATION TEST

EXC:LIT
OP:LIT
STP:LIT

114. LINE UNIT
114.1 Line Unit A-Link

RMV:ALINK
RST:ALINK
SET:ALINK

114.2 Line Unit Channel

ABT:LUCHAN
ALW:HDW-LUCHAN
DGN:LUCHAN
EX:LUCHAN
INH:HDW-LUCHAN
RMV:LUCHAN
RST:LUCHAN
SET:LUCHAN
STP:LUCHAN

114.3 Line Unit Channel Board

ABT:LUCHBD
DGN:LUCHBD
RMV:LUCHBD
RST:LUCHBD
STP:LUCHBD

114.4 Line Unit Command Control

ABT:LUCOMC
ALW:HDW-LUCOMC
DGN:LUCOMC
EX:LUCOMC
INH:HDW-LUCOMC
RMV:LUCOMC
RST:LUCOMC
STP:LUCOMC
SW:LUCOMC

114.5 Line Unit High Level Service Circuit

ABT:LUHLSC
ALW:HDW-LUHLSC
DGN:LUHLSC
114.6 Line Unit Model 2 Grid Board

ABT:GRIDBD
ALW:HDW-GRIDBD
DGN:GRIDBD
EX:GRIDBD
RMV:GRIDBD
RST:GRIDBD
STP:GRIDBD
TST:GRIDBD

115. LINK INTERFACE

ABT:LI
DGN:LI
EX:LI
OP:ST-LI
STP:LI

116. LOADING

LOAD:ADDR
LOAD:PMEM
LOAD:REG
LOAD:UT-FPC-A
LOAD:UT-FPC-B
LOAD:UT-MMP-A
LOAD:UT-MMP-B
LOAD:UT-PPC-A
LOAD:UT-PPC-B
LOAD:UVAR

117. LOCAL AREA SIGNALING SERVICES

OP:ILHB
OP:OLHB

118. LOCAL NUMBER PORTABILITY

TST:LNP

119. LOCAL DIGITAL SERVICE FUNCTION
120. LOCAL DIGITAL SERVICE UNIT

120.1 Local Digital Service Unit Common Board

121. LOGS
122. MACHINE-DETected Interoffice Irregularity

ALW:MDII-A
ALW:MDII-B
INH:MDII-A
INH:MDII-B
OP:MDII
OP:TERACNTS-A
OP:TERACNTS-B
OP:TERACNTS-C

123. MAGnetic TAPE

DGN:MT
EX:MT
OP:MT-INFO

123.1 Magnetic Tape Controller

DGN:MTC
EX:MTC
RMV:MTC
RST:MTC

123.2 Magnetic Tape Device

RMV:MT
RST:MT

124. MAINTENANCE Status

ALW:DMQ
INH:DMQ
OP:DMQ
OP:DMQ-CM-SM
STOP:DMQ
STP:DMQ
STP:DMQ-SM

125. MAINTENANCE Teletypewriter

RMV:MTTY
RST:MTTY
125.1 Maintenance Teletypewriter Controller

DGN:MTTYC
EX:MTTYC
RMV:MTTYC
RST:MTTYC

126. MASTER CONTROL CENTER

OP:CONFIRM
OP:VERS
SET:CONFIRM

127. MEMORY

CFR:PMEM
CFR:SPRMEM-A
CFR:SPRMEM-B
CFR:SPRMEM-C
CFR:SPRMEM-D
CFR:SPRMEM-E
DUMP:SMMAP
ST:NIPMP-A
ST:NIPMP-B
ST:NIPMP-C
ST:NIPMP-D
ST:NIPMP-E
STP:NIPMP
UPD:FLASH

128. MESSAGE INTERFACE

ABT:MI
DGN:MI-A
DGN:MI-B
EX:MI-A
EX:MI-B
OP:ST-MI-A
OP:ST-MI-B
STP:MI

128.1 Message Interface Clock Unit

ABT:MICU
DGN:MICU
STP:MICU

129. MESSAGE SWITCH
129.1 Message Switch Control Unit

ABT:MSCU
ALW:HDW-MSCU
DGN:MSCU
EX:MSCU
INH:HDW-MSCU
RMV:MSCU
RST:MSCU
STP:MSCU

130. MESSAGE WAITING INDICATOR

CLR:MWI
SET:MWI

131. METALLIC ACCESS

ABT:MA
DGN:MA
EX:MA
RMV:MA
RST:MA
STP:MA

131.1 Metallic Access Bus

ABT:MAB
ABT:MTB
DGN:MAB
DGN:MTB
EX:MAB
EX:MTB
RMV:MAB
RMV:MTB
RST:MAB
RST:MTB
STP:MAB
STP:MTB

132. METALLIC SERVICE UNIT
132.1 Metallic Service Unit Distribute Point

EX:DISTPT

132.2 Metallic Service Unit Common Board

ABT:MSUCOM
DGN:MSUCOM
EX:MSUCOM
RMV:MSUCOM
RST:MSUCOM
STP:MSUCOM

132.3 Metallic Service Unit Scan Points

OP:MSUSP

133. METALLIC TEST BUS

ALW:RTMTBOVR
ALW:RTMTBPRT
INH:RTMTBOVR
INH:RTMTBPRT

134. METALLIC TEST INTERCONNECT BUS

ABT:MTIB
DGN:MTIB
EX:MTIB
RMV:MTIB
RST:MTIB
STP:MTIB

134.1 Metallic Test Interconnect Bus Access

ABT:MTIBAX
DGN:MTIBAX
EX:MTIBAX
RMV:MTIBAX
RST:MTIBAX
STP:MTIBAX

135. MODULE CONTROLLER/TIME-SLOT INTERCHANGE

ABT:MCTSI
CLR:MCTSI
DGN:MCTSI
DUMP:UT-MCTSI-MH
EX:MCTSI
EXC:UT-MCTSI-MH-A
EXC:UT-MCTSI-MH-B
LOAD:UT-MCTSI-MH
RMV:MCTSI
RST:MCTSI
SET:MCTSI
STP:MCTSI
SW:MCTSI

135.1 MCTI Links

OP:ST-MELNK
RMV:MELNK
RST:MELNK

136. MODULE MESSAGE PROCESSOR

ABT:MMP
ALW:HDW-MMP
DGN:MMP
DUMP:UT-MMP-A
DUMP:UT-MMP-B
EX:MMP
EXC:UT-MMP-A
EXC:UT-MMP-B
INH:HDW-MMP
LOAD:UT-MMP-A
LOAD:UT-MMP-B
RMV:MMP
RST:MMP
STP:MMP

137. MOVING HEAD DISK

ALW:AUTOCFG
CLR:MHD-MAEC
CMPR:MHD
DGN:MHD
DUMP:MHD-BLOCK
DUMP:MHD-DEFECT
DUMP:MHD-VTOC
EX:MHD
INH:AUTOCFG
INIT:MHD
LOAD:MHD
LOAD:MHD-FIRMWARE
OP:MHD-CFG
OP:MHD-INFO
RMV:MHD
138. NAIL-UP CONNECTIONS

OP:LIST-ISMNAIL-A
OP:LIST-ISMNAIL-B
OP:NAILUP-A
OP:NAILUP-B
OP:ST-ISMNAIL
OP:ST-ISMTS
RMV:ISMNAIL
RST:ISMNAIL
STP:ISMNAIL

139. NETWORK CLOCK

ABT:NC
DGN:NC-A
DGN:NC-B
DUMP:NC-A
DUMP:NC-B
EX:NC-A
EX:NC-B
SET:NC-A
SET:NC-B
STP:NC

139.1 Network Clock Reference

ALW:HDW-NCREF-A
ALW:HDW-NCREF-B
INH:HDW-NCREF-A
INH:HDW-NCREF-B
RMV:NCREF-A
RMV:NCREF-B
RST:NCREF-A
RST:NCREF-B
SW:NCREF-A
SW:NCREF-B

139.2 Network Clock Oscillator

CLR:FRC-NCOSC-A
CLR:FRC-NCOSC-B
RMV:NCOSC-A
RMV:NCOSC-B
139.3 Network Clock Oscillator Cross-Couple

RMV:OSCXC-A
RMV:OSCXC-B
RST:OSCXC-A
RST:OSCXC-B

140. NETWORK LINK INTERFACE

ABT:NLI
DGN:NLI
EX:NLI
RMV:NLI-A
RMV:NLI-B
RST:NLI
STP:NLI

141. NETWORK MANAGEMENT

ALW:NMOUT-A
ALW:NMOUT-B
ASGN:MHTR
ASGN:NMNODES
ASGN:NMSCH
AUD:NMDATA
CLR:NMNODES
CLR:NMSCH
INH:NMOUT-A
INH:NMOUT-B
OP:NMNODES
OP:NMOUT
OP:NMPGE
OP:NMSCH
OP:NMTHD
SET:NMTHD
STP:NMOP

142. NODE PROCESSOR MEMORY

OP:NPMEM

143. NON-RESIDENT CALL TRACE LIST
144.  OFF-NORMAL STATUS

OP:OFFNORM-IS
OP:OFFNORM-PRI
OP:OFFNORM-QPHN
OP:OFFNORM-SM
OP:SYSSTAT-A
OP:SYSSTAT-B

145.  OFFICE DEPENDENT DATA

ABT:ODDBKUP
BKUP:ODD
CLR:ODDBKUP
CNVT:STANDALONE
COPY:LOG-TAPE
OP:BKUPSTAT
OP:ODD-AM-SM
OP:ODDWARN
SET:BACKOUT-A
SET:BACKOUT-B
ST:DBPROXY
ST:MODGRW-RSM
ST:NRODDGRW-A
ST:NRODDGRW-B
ST:ODDBST
ST:ODDCREAT-SM
ST:ODDRM-SM
ST:ODDUPD
ST:RODDGRW
ST:UODDGRW-SM
STP:LIST
STP:ODDEVOL
STP:SW

146.  OFFICE NETWORK

146.1  Office Network and Timing Common Unit

ABT:ONTCCOM
DGN:ONTCCOM-A
DGN:ONTCCOM-B
RMV:ONTCCOM
RST:ONTCCOM
STP:ONTCCOM

146.2  Office Network and Timer Coupler
147. OFFICE RECORDS

ABT:OFR
IN:OFR-PARM
OP:OFR-CAT
OP:OFR-FORM-A
OP:OFR-FORM-B
OP:OFR-FORM-C
OP:OFR-FORM-D
OP:OFR-STATUS
STP:OFR

148. OFFICE-TO-OFFICE TESTING

ABT:OTO
EX:OTO
OP:LISTOTO

149. OFFLINE PUMP

OP:OPUMP
ST:OPUMP-CMP
ST:OPUMP-SM-A
ST:OPUMP-SM-B
STP:OPUMP
STP:OPUMP-SM-A
STP:OPUMP-SM-B

150. OPERATING SYSTEM FOR DISTRIBUTED SWITCHING

OP:PERF

150.1 Monitor

ALW:MON
CLR:MON
INH:MON
OP:MON-CTL
151. OPERATOR SERVICES POSITION SYSTEM

OP:OSPS
RMV:OSPSRPORT
RST:OSPSRPORT
TST:OSPS

151.1 Digital Subscriber Line

INIT:DSL
TST:DSL

152. OPTICAL CARRIER LEVEL 3

ABT:OC3
ABT:OC3C
CLR:OC3
CLR:OC3C
OP:APSSTAT
RST:OC3
RST:OC3C
SET:OC3
SET:OC3C
STP:OC3
STP:OC3C

153. OPTICAL FACILITY INTERFACE

ABT:OFI
DGN:OFI
DUMP:UT-OFI
EXC:UT-OFI
INH:HDW-OFI
LOAD:UT-OFI
OP:NETSTAT
RMV:OC3
RMV:OC3C
RST:OFI
STP:OFI
154. OPTICAL INTERFACE UNIT

ABT: PPPLK
OP: NETSTAT
OP: PSC
RMV: OFI
RMV: PPPLK
RST: PPPLK
STP: PPPLK

155. ORIGINATING LINE NUMBER SCREENING

TST: OLNS

156. OUT-OF-SERVICE UNIT

COPY: OOSDISK
INH: IMSMEAS
OP: LIST-A
OP: LIST-B
OP: LIST-C
OP: LIST-D
OP: LISTOTO
OP: OOS
RMV: DATALINK
RMV: LINE
RST: DATALINK
RST: LINE
STP: LISTOTO

157. OUTPUT MESSAGE DATA BASE

ABT: PAG
ACTV: OMDB
APPLY: OMDB
OP: OMDB
RMV: PAG
RMV: QLPS-A
RMV: QLPS-B
RST: PAG
STP: PAG
UPD: OMDB

158. OVERLOAD STATUS

OP: OVRLD-AM-SM-A
OP: OVRLD-AM-SM-B

159. PACKET INTERFACE
160. PACKET INTERNET GROPER

EXC:PING-A
EXC:PING-B

161. PACKET SWITCH UNIT

RMV:PSUSHLF
TST:PSUPH-FAULT-A
TST:PSUPH-FAULT-B

161.1 Packet Switch Unit Common Controller

ABT:PSUCOM-A
ABT:PSUCOM-B
ALW:PSUCOM-A
ALW:PSUCOM-B
CLR:PSUCOM-A
CLR:PSUCOM-B
DGN:PSUCOM-A
DGN:PSUCOM-B
EX:PSUCOM-A
EX:PSUCOM-B
INH:HDW-PSUCOM-A
INH:HDW-PSUCOM-B
RMV:PSUCOM-A
RMV:PSUCOM-B
RST:PSUCOM-A
RST:PSUCOM-B
SET:PSUCOM-A
SET:PSUCOM-B
STP:PSUCOM-A
STP:PSUCOM-B
SW:PSUCOM-A
SW:PSUCOM-B

161.2 Packet Switch Unit Ethernet Link
161.3 Packet Switch Unit Link

CLR:PSLNK-A  
CLR:PSLNK-B  
OP:CONV-PSLNK-A  
OP:CONV-PSLNK-B  
OP:CONV-PSLNK-C  
OP:ST-PSLNK-A  
OP:ST-PSLNK-B  
SET:PSLNK-A  
SET:PSLNK-B  
SW:PSLNK-A  
SW:PSLNK-B  
TST:PSLNK-A  
TST:PSLNK-B

161.4 Packet Switch Unit Peripheral Interface Data Bus

ABT:PSUPIDB  
RMV:PSUPIDB  
RST:PSUPIDB  
STP:PSUPIDB

161.5 Packet Switch Unit Protocol Handler

ABT:PSUPH-A  
ABT:PSUPH-B  
ALW:PSUPH-A  
ALW:PSUPH-B  
ALW:UT-PSUPH-A  
ALW:UT-PSUPH-B  
CLR:UT-PSUPH-A  
CLR:UT-PSUPH-B  
COPY:UT-PSUPH-A  
COPY:UT-PSUPH-B  
COPY:UT-PSUPH-C  
DGN:PSUPH-A  
DGN:PSUPH-B  
DUMP:UT-PSUPH-A  
DUMP:UT-PSUPH-B  
DUMP:UT-PSUPH-C  
ELSE:UT-PSUPH-A  
ELSE:UT-PSUPH-B  
END:UT-PSUPH-A  
END:UT-PSUPH-B  
EX:PSUPH-A  
EX:PSUPH-B
162. PARTITIONS

CLR:PTN
COPY:PTN-ALL
VFY:OFC-A
VFY:OFC-B
VFY:OFC-C

163. PERIODIC PULSE METERING CIRCUIT

ABT:PPMTC

164. PERIODIC SIGNALING LINK TEST

INH:CCS-PSLT

165. PERIPHERAL CONTROL AND TIMING

165.1 Peripheral Control and Timing Date Exchanger

ABT:PCTDX
ALW:HDW-PCTDX
DGN:PCTDX
165.2 Peripheral Control and Timing Link

ABT:PLTLK
ALW:HDW-PLTLK
DGN:PLTLK
INH:HDW-PLTLK
RMV:PLTLK
RST:PLTLK
STP:PLTLK
SW:PLTLK

165.3 Peripheral Control and Timing Link Tributary

ABT:TRIB
RMV:TRIB
RST:TRIB
STP:TRIB

166. PLANT MEASUREMENTS COMMON REPORT

OP:PMCR

167. PLANT REPORT - 24 HOUR

ALW:PLNT24
ALW:PLNTHR
INH:PLNT24
INH:PLNTHR
OP:PLNTHR
OP:PLNTMO
REPT:PLNTHR

168. PORTS

OP:ST
OP:ST-PORTS
STP:CAMP
SW:PORTSW

169. POSTMORTEM

OP:PM
OP:PM-PP-MCTSI
170. PROCESSES

EXC:ENVIR-PROC
EXC:ENVIR-UPROC
OP:RELSSPACE
OP:ST-PROC
STOP:EXC-ANY
STOP:EXC-USER
STP:EXC-ANY
STP:EXC-USER

171. PROTOCOL

171.1 Protocol Circuit

EXC:PM-A
EXC:PM-B
EXC:PM-C
EXC:PM-D
EXC:PM-E

171.2 Protocol Monitoring

ABT:PROTO
DGN:PROTO
EX:PROTO
RMV:PROTO
RST:PROTO
STP:PROTO

172. PUMP PERIPHERAL CONTROLLER

ABT:PPC
ALW:HDW-PPC
173. QUAD-LINK PACKET SWITCH

173.1 Quad-Link Packet Switch Protocol Handler

173.2 Quad-Link Packet Switch Gateway Processor

173.3 Quad-Link Packet Switch Gateway Processor Link
RST:QGL

173.4 Quad-Link Packet Switch Time Multiplexed Switch Link

RST:QTMSLNK

174. RADIO PORT CONTROLLER UNIT

OP:RPCU
STP:RPCU

175. REAL TIME BILLING MEMORY

CFR:RTBM
VFY:RTBM

176. REAL TIME CALL DETAIL

OP:RTCD

177. RECEIVE-ONLY PRINTER

RMV:ROP
RST:ROP

178. RECENT CHANGE

ALW:CORC
ALW:CORCLOG-SM
ALW:RC
ALW:RCDLY
ALW:RCLOG
CNVT:CORCLOG
CNVT:RCLOG
EXC:ODDRCVY
EXC:RCDECODE
EXC:RCRLS
EXC:RCRMV
INH:CORC
INH:CORCLOG-SM
INH:RC
INH:RCDLY
INH:RCLOG
OP:CORCSTAT-SM
OP:RCACCESS-A
OP:RCACCESS-B
OP:RCACCESS-C
OP:RCDLY
178.1 Global Recent Change
178.2 Recent Change Security Group

OP:RCSECGRP
SET:RCSECGRP

179. RECORDED ANNOUNCEMENT FRAME

ABT:RAF
ALW:HDW-RAF
DGN:RAF
EX:RAF
INH:HDW-RAF
RMV:RAF
RST:RAF
STP:RAF

180. REGISTERS

COPY:REG
DUMP:REG
INIT:REG
LOAD:REG
OP:REG

181. REMOTE BUILDING AND MISCELLANEOUS SCAN POINT

INH:RBPSC-SM

182. REMOTE CLOCK

ABT:RCLK
ALW:HDW-RCLK
DGN:RCLK
EX:RCLK
182.1 Remote Clock Cross Couple

ABT:RCXC  
RMV:RCXC  
RST:RCXC

182.2 Remote Clock Oscillator

ABT:RCOSC  
ALW:HDW-RCOSC  
INH:HDW-RCOSC  
RMV:RCOSC  
RST:RCOSC  
SW:RCOSC

182.3 Remote Clock Oscillator Couple

ABT:RCOXC  
ALW:HDW-RCOXC  
INH:HDW-RCOXC  
RMV:RCOXC  
RST:RCOXC

182.4 Remote Clock Reference

ABT:RCREF  
ALW:HDW-RCREF  
INH:HDW-RCREF  
RMV:RCREF  
RST:RCREF  
SW:RCREF

183. REMOTE COMMON DATA AND CONTROL

EX:RCDDP

184. REMOTE COMMUNICATIONS LINK

ABT:RCL  
RMV:RCL  
RST:RCL
185. REMOTE INTEGRATED SERVICE LINE UNIT

185.1 Remote Integrated Service Line Unit Remote Clock Circuit Pack

ABT:RRCLK
ALW:HDW-RRCLK
DGN:RRCLK
EX:RRCLK
INH:HDW-RRCLK
RMV:RRCLK
RST:RRCLK
STP:RRCLK
SW:RRCLK

186. REMOTE SWITCHING MODULE

186.1 Remote Switching Module Alarm

ABT:RAU
DGN:RAU
EX:RAU
RMV:RAU
RST:RAU
STP:RAU

186.2 Remote Switching Module Digital Facility Interface

ABT:RDFI
DGN:RDFI
EX:RDFI
RMV:RDFI
RST:RDFI

186.3 Remote Switching Module Remote Link Interface

ABT:RLI
ALW:HDW-RLI
CFR:SAMEM-A
CFR:SAMEM-B
DGN:RLI
EX:RLI
INH:HDW-RLI
RMV:RLI
RST:RLI
STP:RLI
SW:RLI
VFY:SAMEM-A
VFY:SAMEM-B
187. REMOTE TERMINAL

ABT:RMV-RT
ABT:RST-RT
ALW:RT-FAC
ALW:RT-PROV-REPT
ALW:RT-REPT
ALW:RTMTBOVR
ALW:RTMTBPRT
CLR:RT-FAC
CLR:RT-FACOFFN
CNVT:RT
EXC:RT-PROV
INH:RT-FAC
INH:RT-PROV-REPT
INH:RT-REPT
INH:RTMTBOVR
INH:RTMTBPRT
OP:RT-ALM-ALL
OP:RT-CHAN
OP:RT-FACOFFN
OP:RT-PROV
OP:RT-REPT
OP:RT-SID-LRT
RMV:DNUSEOC
RMV:DNUSTMC
RMV:IDCUEOC
RMV:IDCUTMC
RMV:RT-EOC
RMV:RT-TMC
RMV:RTFAC
RST:DNUSEOC
RST:DNUSTMC
RST:IDCUEOC
RST:IDCUTMC
RST:RT-EOC
RST:RT-TMC
RST:RTFAC
RST:RTFAC
SET:RT-FAC
SET:RT-FACOFFN
STP:DNUSEOC
STP:DNUSTMC
STP:IDCUEOC
STP:IDCUTMC
STP:RMV-RT
STP:RST-RT
STP:RTFAC
SW:DNUSEOC
SW:DNUSTMC
SW:IDCUEOC
SW:IDCUTMC
188. REORGANIZATION

ALW:REORG
EXC:REORG
INH:REORG
SET:REORG

189. REPORTS

OP:ANITBL-A
OP:ANITBL-B
OP:ANITBL-C
OP:PLNT24
OP:PMCR

190. RETROFIT

OP:MEMSIZE
STP:MEMSIZE

191. REVERTIVE PULSING TRANSCEIVER

ABT:RVPT
ALW:HDW-RVPT
DGN:RVPT
EX:RVPT
INH:HDW-RVPT
RMV:RVPT
RST:RVPT
STP:RVPT

192. RING

ALW:RTRACK
EXC:RTRACK
INH:RTRACK
OP:RTRACK
STOP:RTRACK

192.1 Ring Peripheral Controller Node

DGN:RPCN
EX:RPCN
OP:CLID
RMV:RPCN
193. ROUTINE EXERCISE

ABT:GKCCR
ALW:GKCCR
ALW:REX
ALW:REX-CM-SM
ALW:REX-UNIT-A
ALW:REX-UNIT-B
EXC:GKCCR
EXC:REX-CM-SM
EXC:SCHED
INH:GKCCR
INH:REX
INH:REX-AM-SM
INH:REX-CM-SM
INH:REX-UNIT-A
INH:REX-UNIT-B
OP:REX-CM-SM
OP:REXINH
RCV:M-IREX
STP:REX-CM-SM

194. ROUTINE PORT CONDITIONING

ALW:RPC
INH:RPC
OP:RPC-SM

195. SCAN POINT BOARD

ABT:SCAN
DGN:SCAN
EX:SCAN
ORD:SCAN-A
ORD:SCAN-B
ORD:SCAN-C
RMV:SCAN
RST:SCAN
STP:SCAN

196. SCANNER AND SIGNAL DISTRIBUTOR

196.1 Scanner and Signal Distributor Controller

DGN:SCSDC
EX:SCSDC
RMV:SCSDC
RST:SCSDC
196.2 Scanner and Signal Distributor Scan Points

ALW:SCSD
INH:SCSD
OP:SCSD
ORD:SCSD

197. SELECTIVE INCOMING LOAD CONTROL

ALW:DSILC
ASGN:SILC
CLR:SILC
INH:DSILC
OP:SILC

198. SERVICE ANNOUNCEMENT SYSTEM

ABT:SAS
ALW:HDW-SAS
DGN:SAS
EX:SAS
INH:HDW-SAS
RMV:SAS
RST:SAS
STP:SAS

199. SIGNALING

ALW:TRAP
EXC:MRVT-PC
INH:TRAP
OP:C7NET
OP:LASSRQST-A
OP:LASSRQST-B
OP:LASSRQST-C
OP:TRAP
SET:TRAP-A
SET:TRAP-B
STOP:TRAP
TST:ACPNUM

200. SIGNALING SYSTEM 7

ALW:S7ACK
ALW:S7RPT
ALW:S7XCHK
EXC:S7RPT
EXC:S7XCHK
200.1 Common Channel Signaling System 7

CLR:CCS-SRST
INIT:SCCP
OP:CCS-ACDPC
OP:CCS-ACTLK
OP:CCS-CLS
OP:CCS-DPC
OP:CCS-DPCLS
OP:CCS-GSM-A
OP:CCS-GSM-B
OP:CCS-LSCLS
OP:CCS-MON
OP:CCS-OPC
OP:CCS-ROUTE
OP:CCS-SCMG
OP:CCS-SLS
OP:CCS-TPC
OP:ST-CCSLK
OP:ST-MD
OP:TPC
RMV:CCSLK
RMV:MD
RST:CCSLK
RST:MD
STP:CCS-ROUTE
TST:AILS-OLS
TST:AILS-TCS
TST:CAS7
TST:CCS-GSMCFG
TST:CCSLK
TST:ICCV
TST:LAC

200.2 Common Channel Signaling Protocol Monitoring

EXC:PMCCS-A
EXC:PMCCS-B
201. SIGNALING LINK

CHG:SLK
INH:SLK
MON:SLK
OP:SLK
REKEY:SLK
REPT:SLK

202. SIGNALING CONNECTION CONTROL PART

CLR:SCMG

203. SIGNALING NETWORK ADMINISTRATOR TIME

OP:SNAT

204. SMALL COMPUTER SYSTEM INTERFACE

LOAD:DFC-PUMP
LOAD:DFC-RAM
RMV:SBUS
RST:SBUS

205. SOFTWARE CHECK

ALW:SFTCHK
ALW:SFTCHK-SM-A
ALW:SFTCHK-SM-B
ALW:SRM
INH:SFTCHK
INH:SFTCHK-SM-A
INH:SFTCHK-SM-B
INH:SFTCHK-SM-C
INH:SRM
OP:ERRCHK

206. STATIC OFFICE DEPENDENT DATA

ALW:AUD-SODD
EXC:AUD-SODD
EXC:SODD-RED
EXC:SODD-RED-OP
EXC:SODD-STP
INH:AUD-SODD
207. STATUS

OP: ST
OP: ST-APX
OP: ST-AUD-SM-A
OP: ST-AUD-SM-B
OP: ST-AUD-SODD
OP: ST-DSE
OP: ST-ENV-AUD
OP: ST-ISUP
OP: ST-LI
OP: ST-PLNT24
OP: ST-PROC
OP: ST-PSLNK-A
OP: ST-PSLNK-B
OP: ST-QPHLNK
OP: ST-QPHPIPE
OP: ST-TRFC30
OP: STATUS-A
OP: STATUS-B
OP: STATUS-C
OP: STATUS-D
OP: STATUS-PS

208. STUCK COIN FAILURE

OP: SCF

209. SUBSCRIBER LINE BUSY

OP: SL-A
OP: SL-B
OP: SL-C

210. SUBSCRIBER LINE INSTRUMENT MEASUREMENT

ABT: SLIM
ABT: TSESS
ALW: TSESS
DGN: SLIM
EX: SLIM
INH: TSESS
OP: TSESS
OP: TSESS-DS
RMV: SLIM
211. SUBSCRIBER LOOP CARRIER

211.1 SLC®-96 Digital Carrier Line Unit

ABT:DCLU
DGN:DCLU
EX:DCLU
OP:LISTOTO
RMV:DCLU
RST:DCLU
STP:DCLU

211.2 SLC®-96 Digital Facility Interface

ABT:SDFI
ALW:HDW-SDFI
DGN:SDFI
EX:SDFI
INH:HDW-SDFI
RMV:SDFI
RST:SDFI
STP:SDFI

212. SWITCHING CONTROL CENTER

OP:VERS
RMV:SCC
RST:SCC

213. SWITCHING MODULE

ALW:AUD-SM
ALW:CPUQADM
ALW:PCTF
ALW:UT-SM
AUD:SM
CLR:UT-SM
COPY:UT-SM-A
COPY:UT-SM-B
DUMP:UT-SM-A
DUMP:UT-SM-B
DUMP:UT-SM-C
ELSE:UT-SM
END:UT-SM
EXC:UT-SM-A
EXC:UT-SM-B
IF:UT-SM-A
213.1 Switching Module Peripheral Error

CLR:PERPH-SM
OP:PERPH-SM-SUM
SET:PERPH-SM

213.2 Host Switching Module Digital Facility Interface

ABT:HDFI
ALW:HDW-HDFI
ALW:PUMP
ALW:PUMP-SM
CLR:ISOL-SM
CLR:MINMODE-SM-A
CLR:MINMODE-SM-B
DGN:HDFI
EX:HDFI
INH:HDW-HDFI
RMV:HDFI
RST:HDFI
SET:ISOL-SM
SET:MINMODE-CNI
SET:MINMODE-SM-A
SET:MINMODE-SM-B
STP:HDFI
INH:PUMP-SM-A
INH:PUMP-SM-B

214. SYNCHRONOUS DATA LINK
214.1 Synchronous Data Link Controller

DGN:SDLC
EX:SDLC
RMV:SDLC
RST:SDLC

215. SYNCHRONOUS TRANSPORT SIGNAL

ABT:STS1
ABT:STS3C
RMV:STS1
RMV:STS3C
RST:STS1
RST:STS3C
STP:STS1
STP:STS3C

216. SYSTEM TAPE

Vfy:TAPE

217. T1 FACILITY

ABT:FAC
ABT:IFAC
ALW:FAC-A
ALW:FAC-B
ALW:FAC-C
ALW:FAC-D
ALW:HDW-IFAC
ALW:RT-FAC
CHG:MRVT
CLR:RT-FAC
CLR:RT-FACOFFN
INH:RT-FAC
INIT:FAC-A
INIT:FAC-B
INIT:FAC-C
OP:FAC-A
OP:FAC-B
OP:FAC-C
OP:FAC-D
OP:FACMAP
OP:RT-FACOFFN
RMV:FAC
218. TAPE WRITER

STOP: BKDISK
STOP: CMPR-MHD
STOP: COPY-DIFF
STOP: BKDISK

219. TELETYPewriter

RMV: TTY
RST: TTY

219.1 Teletypewriter Controller

DGN: TTYC
EX: TTYC
RMV: TTYC
RST: TTYC

220. TEST AND ACCESS CIRCUIT

ABT: TAC
ALW: HDW-TAC
DGN: TAC
EX: TAC
INH: HDW-TAC
RMV: TAC
RST: TAC
STP: TAC

221. TIME OF DAY

ALW: TOD
INH: TOD

222. TESTING

ASGN: TESTSET
OP: TESTSET
223. TIME MULTIPLEX SWITCH

ABT:TMS
ABT:TMSFP
DGN:TMS-A
DGN:TMS-B
DGN:TMSFP
DUMP:TMS-A
DUMP:TMS-B
DUMP:TMS-C
EX:TMS-A
EX:TMS-B
LOAD:UT-TMS-A
LOAD:UT-TMS-B
RST:QTMSLNK
RST:TMSLNK-A
RST:TMSLNK-B
STP:TMS

223.1 Time Multiplexed Switch Fabric Pair

RMV:TMSFP
RST:TMSFP
STP:TMSFP
VFY:CPU-A
VFY:CPU-B

224. TIMESLOT MANAGEMENT CHANNEL

OP:RT-CHAN
RMV:DNUSTMC
RMV:IDCUTMC
RMV:RT-TMC
RST:DNUSTMC
RST:IDCUTMC
RST:RT-TMC
STP:DNUSTMC
STP:IDCUTMC
SW:DNUSTMC
225. TRAFFIC MEASUREMENT

ALW:TRFC15
ALW:TRFC30
BKUP:TRFM
INH:TRFC15
INH:TRFC30
OP:MEASIC
OP:MEASTAT-A
OP:MEASTAT-B
OP:TRFC15
OP:TRFC30
RST:TRFM

226. TRANSFER

IN:XFER

227. TRANSACTIONS

CLR:TRN
TST:AT1

228. TRANSLATIONS

OP:CONV-A
OP:CONV-B
OP:CONV-C
OP:CONV-D
OP:CONV-E
OP:CONV-EXT-A
OP:CONV-EXT-B
OP:CONV-EXT-C
OP:CONV-EXT-D
OP:CONV-EXT-E
OP:CONV-INT
OP:CONV-PHA-A
OP:CONV-PHA-B
OP:CONV-PSLNK-A
OP:CONV-PSLNK-B
OP:CONV-PSLNK-C
OP:DIGTRC
OP:RTITRC

229. TRANSMISSION CONTROL PROTOCOL/INTERNET PROTOCOL
OP:TCPIP-RTDMP

230. TRANSMISSION RATE CONVERTER UNIT

OP:TRCU
SET:FRC-TRCU3

231. TRANSMISSION TEST FACILITY COMMON BOARD

ABT:TTFCOM
ALW:HDW-TTFCOM
DGN:TTFCOM
EX:TTFCOM
INH:HDW-TTFCOM
RMV:TTFCOM
RST:TTFCOM
STP:TTFCOM

232. TRUNK AND LINE WORK STATION

ABT:TASK
ABT:TASK-TLWS
CLR:PB
CLR:SRST-DPC
CLR:WSDGTL
CLR:WSFREQ
CLR:WSOPD
CONN:WSIC
CONN:WSJACK
CONN:WSLINE
CONN:WSPHONE
CONN:WSPORT
CONN:WSTRK-A
CONN:WSTRK-B
CONN:WSTRK-C
CONN:WSTRK-D
DISC:WSLINE
DISC:WSPHONE
DISC:WSPORT
DISC:WSTRK
OP:PB
OP:WSDATA
OP:WSSTAT
RLS:WSPOS
RLS:WSTST
SET:PB
SET:WSDGTL
SET:WSFREQ
SET:WSOPD
SET:WSPHONE
SET:WSPOS

235-600-700 December 2003
233. TRUNK EQUIPMENT NUMBER

ABT:TEN
ALW:HDW-TEN
DGN:TEN
EX:TEN
INH:HDW-TEN
RMV:TEN
RST:TEN
STP:TEN

234. TRUNK GROUPS

ASGN:DPSCH
CLR:TRKDP
CLR:TRUNK
EXC:CCSXLATE-A
EXC:CCSXLATE-B
INH:PSLT
MON:TRUNK
OP:ACCH
OP:DOC
OP:PSLT
OP:TERACNTS-A
OP:TERACNTS-B
OP:TERACNTS-C
OP:TGCNT
OP:TRUNK
ORD:DLOOP-A
ORD:DLOOP-B
ORD:DLOOP-C
ORD:TONE-A
ORD:TONE-B
ORD:TONE-C
RLS:TRUNK
RMV:TRK-A
RMV:TRK-B
RMV:TRK-C
RMV:TRK-D
RST:TRK-A
RST:TRK-B
RST:TRK-C
234.1 Trunk Group Controls

ALW:SSTR
ALW:TR
ASGN:SSTR
ASGN:TR-A
ASGN:TR-B
ASGN:TR-C
ASGN:TR-D
CLR:SSTR
CLR:SSTROVRD
CLR:TGC
CLR:TR
CLR:TROVRD
INH:SSTR
INH:TR
OP:SSTR
OP:TGC
OP:TLPNOTE
OP:TR
SET:RR-A
SET:RR-B
SET:RR-C
SET:SSTROVRD
SET:TGC-A
SET:TGC-B
SET:TGC-C
SET:TGC-D
SET:TROVRD
STP:NMOP

235. TRUNK TESTING

EXC:CCS
EXC:CCSCQ-A
EXC:CCSCQ-B
INH:CCSCQ
OP:CCSCQ
ORD:TRK-A
ORD:TRK-B
ORD:TRK-C
STP:CCSCQ
STP:TST-DSL
STP:TST-MP
STP:TST-TRK
STP:TST-WLINE
TST:LNP
TST:TRK-A
236. TRUNK UNIT CHANNEL BOARD

ABT:TUCHBD
DGN:TUCHBD
RMV:TUCHBD
RST:TUCHBD
STP:TUCHBD

237. UMBILICAL

EXC:UCL
OP:UMBILMAP
RMV:UMBIL
RST:UMBIL
STP:UMBIL
TST:UMBIL

238. UNIVERSAL CONFERENCE CIRCUIT

ABT:UCONF
ALW:HDW-UCONF
DGN:UCONF
EX:UCONF
INH:HDW-UCONF
RMV:UCONF
RST:UCONF
STP:UCONF

239. UNIVERSAL TONE

239.1 Universal Tone Decoder

ABT:UTD
ALW:HDW-UTD
DGN:UTD
EX:UTD
INH:HDW-UTD
RMV:UTD
RST:UTD
STP:UTD

239.2 Universal Tone Generator

ABT:UTG
240. UPDATES

ALW:HDW-UTG
DGN:UTG
EX:UTG
INH:HDW-UTG
RMV:UTG
RST:UTG
STP:UTG

IN:REMOTE-REPT
IN:REMOTE-START
IN:REMOTE-STOP
OP:G-READHDR
OP:G-READLOG
ST:UPDMHGTRKG
STOP:GEN
STP:EXC-UPD
STP:GEN
UPD:APPLY-BYTER-A
UPD:APPLY-BYTER-B
UPD:APPLY-FILER-A
UPD:APPLY-FILER-B
UPD:APPLY-FUNCR-A
UPD:APPLY-FUNCR-B
UPD:APPLY-UNIX
UPD:AUTO
UPD:AUTOCHK
UPD:AUTOPROFILE
UPD:AUTOSCHED
UPD:BKOUT
UPD:BLDBOOT
UPD:BLOCk
UPD:BOLO
UPD:CCS-CUTOVER
UPD:CCS-PSUMOD
UPD:CHG-APPLY
UPD:CHG-BKOUT
UPD:CHG-INST
UPD:CHG-SKTM
UPD:CLR
UPD:DISPLAY
UPD:DISPLAYUPD
UPD:DUMPCORE-A
UPD:DUMPCORE-B
UPD:EXALL
UPD:EXNXT
UPD:EXPAND
UPD:FTRC
UPD:G-APPLPROC
UPD:G-BACKOUT
UPD:G-BEGIN
UPD:G-COMMIT

241. USER LEVEL AUTOMATIC RESTART

INIT:ULARP
OP:ULARP-COM
OP:ULARP-EXEC
OP:ULARP-PROC

242. USER PART

OP:UPART

243. UTILITIES

ALW:UT-CMP
ALW:UT-MCTSI-PI
ALW:UT-PSUPH-A
ALW:UT-PSUPH-B
ALW:UT-SM
ALW:UTIL
ALW:UTILFLAG
CLR:UT-CMP
CLR:UT-MCTSI-PI
CLR:UT-PSUPH-A
CLR:UT-PSUPH-B
CLR:UT-SM
CLR:UTIL
CLR:UTILFLAG
COPY:UT-MCTSI-PI
COPY:UT-PSUPH-A
COPY:UT-PSUPH-B
COPY:UT-PSUPH-C
COPY:UT-SM-A
COPY:UT-SM-B
DUMP:UT-CMP-A
DUMP:UT-CMP-B
DUMP:UT-CMP-C
DUMP:UT-CMPMSG-A
DUMP:UT-CMPMSG-B
DUMP:UT-DNUS
DUMP:UT-FPC-A
DUMP:UT-FPC-B
DUMP:UT-IDCU
DUMP:UT-IDCULSI
DUMP:UT-ISLUCC
DUMP:UT-MCTSI-MH
DUMP:UT-MCTSI-PI-A
DUMP:UT-MCTSI-PI-B
DUMP:UT-MMP-A
DUMP:UT-MMP-B
DUMP:UT-MSGS
WHEN:UT-MCTSI-PI
WHEN:UT-PSUPH-A
WHEN:UT-PSUPH-B
WHEN:UT-PSUPH-C
WHEN:UT-SM-A
WHEN:UT-SM-B

244. UTILITY CALL TRACE

OP:CHANMAP-A
OP:CHANMAP-B

245. UTILITY VARIABLE

COPY:UVAR
DUMP:UVAR
LOAD:UVAR

246. VIRTUAL NETWORK CONFERENCE RESOURCE

RMV:VNCR
RST:VNCR

247. VIRTUAL TRIBUTARY

ABT:VT15
RMV:VT15
RST:VT15
STP:VT15
5. APPENDIXES
1. APPENDIX

AUDIT SPECIAL DEVICE FILES

Table 1: Special Device Files For FSCMPT

<table>
<thead>
<tr>
<th>Special Device File</th>
<th>Generic Range</th>
</tr>
</thead>
<tbody>
<tr>
<td>&quot;/dev/bdb&quot;</td>
<td>5E12 and later</td>
</tr>
<tr>
<td>&quot;/dev/betc&quot;</td>
<td>5E12 and later</td>
</tr>
<tr>
<td>&quot;/dev/broot&quot;</td>
<td>5E12 and later</td>
</tr>
<tr>
<td>&quot;/dev/bwm&quot;</td>
<td>5E12 and later</td>
</tr>
<tr>
<td>&quot;/dev/cdmp&quot;</td>
<td>5E12 and later</td>
</tr>
<tr>
<td>&quot;/dev/db&quot;</td>
<td>5E12 and later</td>
</tr>
<tr>
<td>&quot;/dev/dg&quot;</td>
<td>5E12 and later</td>
</tr>
<tr>
<td>&quot;/dev/etc&quot;</td>
<td>5E12 and later</td>
</tr>
<tr>
<td>&quot;/dev/log&quot;</td>
<td>5E12 and later</td>
</tr>
<tr>
<td>&quot;/dev/mail&quot;</td>
<td>5E12 and later</td>
</tr>
<tr>
<td>&quot;/dev/no5aodd1&quot;</td>
<td>5E12 and later</td>
</tr>
<tr>
<td>*=&quot;/dev/no5codd1&quot;</td>
<td>5E12 and later</td>
</tr>
<tr>
<td>*=&quot;/dev/no5codd2&quot;</td>
<td>5E12 and later</td>
</tr>
<tr>
<td>*=&quot;/dev/no5sodd1&quot;</td>
<td>5E12 and later</td>
</tr>
<tr>
<td>*=&quot;/dev/no5sodd2&quot;</td>
<td>5E12 and later</td>
</tr>
<tr>
<td>*=&quot;/dev/no5sodd3&quot;</td>
<td>5E12 and later</td>
</tr>
<tr>
<td>*=&quot;/dev/no5sodd4&quot;</td>
<td>5E12 and later</td>
</tr>
<tr>
<td>*=&quot;/dev/no5sodd5&quot;</td>
<td>5E12 and later</td>
</tr>
<tr>
<td>*=&quot;/dev/no5sodd6&quot;</td>
<td>5E12 and later</td>
</tr>
<tr>
<td>&quot;/dev/no5text&quot;</td>
<td>5E12 and later</td>
</tr>
<tr>
<td>&quot;/dev/rclog&quot;</td>
<td>5E12 and later</td>
</tr>
<tr>
<td>&quot;/dev/root&quot;</td>
<td>5E12 and later</td>
</tr>
<tr>
<td>*=&quot;/dev/smlog&quot;</td>
<td>5E12 and later</td>
</tr>
<tr>
<td>*=&quot;/dev/smtext&quot;</td>
<td>5E12 and later</td>
</tr>
<tr>
<td>&quot;/dev/tmp&quot;</td>
<td>5E12 and later</td>
</tr>
<tr>
<td>&quot;/dev/unixa&quot;</td>
<td>5E12 and later</td>
</tr>
<tr>
<td>*=&quot;/dev/unixabf&quot;</td>
<td>5E12 and later</td>
</tr>
<tr>
<td>*=&quot;/dev/updtmp&quot;</td>
<td>5E12 and later</td>
</tr>
<tr>
<td>&quot;/dev/usrtmp&quot;</td>
<td>5E12 and later</td>
</tr>
</tbody>
</table>

* optional depending upon office configuration.

Table 2: Special Device Files For FSBLK and FSLINK

<table>
<thead>
<tr>
<th>Special Device File</th>
<th>Member Number</th>
<th>Generic Range</th>
</tr>
</thead>
<tbody>
<tr>
<td>&quot;/dev/bdb&quot;</td>
<td>1</td>
<td>5E12 and later</td>
</tr>
<tr>
<td>&quot;/dev/betc&quot;</td>
<td>1</td>
<td>5E12 and later</td>
</tr>
<tr>
<td>&quot;/dev/broot&quot;</td>
<td>1</td>
<td>5E12 and later</td>
</tr>
<tr>
<td>&quot;/dev/bwm&quot;</td>
<td>1</td>
<td>5E12 and later</td>
</tr>
<tr>
<td>&quot;/dev/cdmp&quot;</td>
<td>1</td>
<td>5E12 and later</td>
</tr>
<tr>
<td>&quot;/dev/db&quot;</td>
<td>1</td>
<td>5E12 and later</td>
</tr>
<tr>
<td>&quot;/dev/dg&quot;</td>
<td>1</td>
<td>5E12 and later</td>
</tr>
<tr>
<td>&quot;/dev/etc&quot;</td>
<td>1</td>
<td>5E12 and later</td>
</tr>
<tr>
<td>&quot;/dev/log&quot;</td>
<td>1</td>
<td>5E12 and later</td>
</tr>
<tr>
<td>&quot;/dev/mail&quot;</td>
<td>1</td>
<td>5E12 and later</td>
</tr>
<tr>
<td>&quot;/dev/no5aodd1&quot;</td>
<td>2</td>
<td>5E12 and later</td>
</tr>
<tr>
<td>*=&quot;/dev/no5codd1&quot;</td>
<td>3</td>
<td>5E12 and later</td>
</tr>
<tr>
<td>*=&quot;/dev/no5codd2&quot;</td>
<td>3</td>
<td>5E12 and later</td>
</tr>
<tr>
<td>*=&quot;/dev/no5sodd1&quot;</td>
<td>3</td>
<td>5E12 and later</td>
</tr>
<tr>
<td>*=&quot;/dev/no5sodd2&quot;</td>
<td>3</td>
<td>5E12 and later</td>
</tr>
<tr>
<td>*=&quot;/dev/no5sodd3&quot;</td>
<td>3</td>
<td>5E12 and later</td>
</tr>
<tr>
<td>*=&quot;/dev/no5sodd4&quot;</td>
<td>3</td>
<td>5E12 and later</td>
</tr>
<tr>
<td>*=&quot;/dev/no5sodd5&quot;</td>
<td>3</td>
<td>5E12 and later</td>
</tr>
<tr>
<td>*=&quot;/dev/no5sodd6&quot;</td>
<td>3</td>
<td>5E12 and later</td>
</tr>
<tr>
<td>Device</td>
<td>Usage</td>
<td>Required Version</td>
</tr>
<tr>
<td>-------------------</td>
<td>-------</td>
<td>------------------</td>
</tr>
<tr>
<td>/dev/no5text</td>
<td>2</td>
<td>5E12 and later</td>
</tr>
<tr>
<td>/dev/rolog</td>
<td>1</td>
<td>5E12 and later</td>
</tr>
<tr>
<td>/dev/root</td>
<td>1</td>
<td>5E12 and later</td>
</tr>
<tr>
<td><em>/dev/smlog</em></td>
<td>1</td>
<td>5E12 and later</td>
</tr>
<tr>
<td><em>/dev/smttext</em></td>
<td>1</td>
<td>5E12 and later</td>
</tr>
<tr>
<td><em>/dev/tmp</em></td>
<td>1</td>
<td>5E12 and later</td>
</tr>
<tr>
<td><em>/dev/unixa</em></td>
<td>1</td>
<td>5E12 and later</td>
</tr>
<tr>
<td><em>/dev/unixabf</em></td>
<td>1</td>
<td>5E12 and later</td>
</tr>
<tr>
<td><em>/dev/updtmp</em></td>
<td>1</td>
<td>5E12 and later</td>
</tr>
<tr>
<td>*/dev/usrtmp</td>
<td>1</td>
<td>5E12 and later</td>
</tr>
</tbody>
</table>

* optional depending upon office configuration.
1. APPENDIX: SYSTEM RESPONSES FOR AUDIT SYSTEM INPUT MESSAGES

<table>
<thead>
<tr>
<th>Response</th>
<th>Message</th>
<th>Meaning</th>
</tr>
</thead>
<tbody>
<tr>
<td>?D</td>
<td>EXTRA KEYWORD</td>
<td>Too many keywords in data field.</td>
</tr>
<tr>
<td>?D</td>
<td>INVALID CHARACTER</td>
<td>Member number given was not numeric.</td>
</tr>
<tr>
<td>?D</td>
<td>INVALID DATA, ERROR 101</td>
<td>Cannot specify a range of member numbers.</td>
</tr>
<tr>
<td>?D</td>
<td>INVALID DATA, ERROR 102</td>
<td>Only one member number allowed.</td>
</tr>
<tr>
<td>?D</td>
<td>INVALID DATA, ERROR 103</td>
<td>The record for the specified audit name and number is not found in the equipment configuration database.</td>
</tr>
<tr>
<td>?D</td>
<td>INVALID DATA, ERROR 105</td>
<td>An instance can be associated with one and only one audit name and member number.</td>
</tr>
<tr>
<td>?D</td>
<td>INVALID DATA, ERROR 201</td>
<td>The data field must be empty.</td>
</tr>
<tr>
<td>?D</td>
<td>INVALID DATA, ERROR 202</td>
<td>Only one instance can be specified.</td>
</tr>
<tr>
<td>?D</td>
<td>INVALID DATA, ERROR 203</td>
<td>The record for the specified instance is not in the equipment configuration database for the given audit name and member number.</td>
</tr>
<tr>
<td>?D</td>
<td>INVALID DATA, ERROR 204</td>
<td>No additional data can be entered when ALL is used as an input to audit user input messages, such as ALW, INH, and OP, or when RUN is used with the OP:AUD input message.</td>
</tr>
<tr>
<td>?D</td>
<td>INVALID DATA, ERROR 301</td>
<td>Data string to AUD input message too long.</td>
</tr>
<tr>
<td>?D</td>
<td>INVALID DATA, ERROR 302</td>
<td>Data string for AUD input message should not have an argument.</td>
</tr>
<tr>
<td>?D</td>
<td>INVALID KEYWORD, ERROR 101</td>
<td>The audit name is too long.</td>
</tr>
<tr>
<td>?D</td>
<td>INVALID KEYWORD, ERROR 102</td>
<td>No records for specified audit name were found in the equipment configuration database.</td>
</tr>
<tr>
<td>?D</td>
<td>INVALID KEYWORD, ERROR 201</td>
<td>The keyword is not INS.</td>
</tr>
<tr>
<td>?D</td>
<td>INVALID KEYWORD, ERROR 501</td>
<td>The PARAM keyword was entered but no additional parameter string was specified.</td>
</tr>
<tr>
<td>?D</td>
<td>MISSING DATA, ERROR 101</td>
<td>No member number was given.</td>
</tr>
<tr>
<td>?D</td>
<td>MISSING DATA, ERROR 201</td>
<td>The INS keyword was entered but no instance name was specified.</td>
</tr>
<tr>
<td>?D</td>
<td>RANGE ERROR</td>
<td>Member number out of range.</td>
</tr>
<tr>
<td>?E</td>
<td>INPUT ERROR</td>
<td>The input message could not determine what action was requested.</td>
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<tr>
<td>?I</td>
<td>INCONSISTENT KEYWORDS</td>
<td>Conflicting action items.</td>
</tr>
<tr>
<td>?I</td>
<td>INVALID DATA, ERROR 101</td>
<td>Cannot specify a range.</td>
</tr>
<tr>
<td>?I</td>
<td>INVALID DATA, ERROR 102</td>
<td>Only one member number allowed.</td>
</tr>
<tr>
<td>?I</td>
<td>INVALID DATA, ERROR 103</td>
<td>The record for the specified audit name and number is not found in the equipment configuration database.</td>
</tr>
<tr>
<td>?I</td>
<td>INVALID DATA, ERROR 201</td>
<td>The instance name is too long.</td>
</tr>
<tr>
<td>?I</td>
<td>INVALID DATA, ERROR 202</td>
<td>Only one instance can be specified.</td>
</tr>
<tr>
<td>?I</td>
<td>INVALID DATA, ERROR 203</td>
<td>The record for the specified instance is not in the equipment configuration database for the given audit name and member number.</td>
</tr>
<tr>
<td>?I</td>
<td>INVALID DATA, ERROR 301</td>
<td>First action option keyword must not have a keyword data field.</td>
</tr>
<tr>
<td>?I</td>
<td>INVALID DATA, ERROR 302</td>
<td>Second action option keyword must not have a keyword data field.</td>
</tr>
<tr>
<td>?I</td>
<td>INVALID DATA, ERROR 401</td>
<td>Keyword data cannot follow keyword AUD.</td>
</tr>
<tr>
<td>?I</td>
<td>EXTRA KEYWORD, ERROR 1</td>
<td>Too many action options.</td>
</tr>
<tr>
<td>?I</td>
<td>EXTRA KEYWORD, ERROR 2</td>
<td>The third identification field subfield must be empty.</td>
</tr>
<tr>
<td>?I</td>
<td>INVALID KEYWORD, ERROR 101</td>
<td>The audit name is too long.</td>
</tr>
<tr>
<td>?I</td>
<td>INVALID KEYWORD, ERROR 201</td>
<td>The keyword is not INS.</td>
</tr>
<tr>
<td>?I</td>
<td>INVALID KEYWORD, ERROR 202</td>
<td>The keyword is invalid.</td>
</tr>
<tr>
<td>?I</td>
<td>INVALID KEYWORD, ERROR 203</td>
<td>The keyword RUN is valid only with the OP:AUD input.</td>
</tr>
<tr>
<td>Message</td>
<td>Meaning</td>
<td></td>
</tr>
<tr>
<td>---------</td>
<td>---------</td>
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</tr>
<tr>
<td>I INVALID KEYWORD, ERROR 301</td>
<td>The first action option is not valid.</td>
<td></td>
</tr>
<tr>
<td>I INVALID KEYWORD, ERROR 401</td>
<td>The second action option is not valid.</td>
<td></td>
</tr>
<tr>
<td>I INVALID KEYWORD, ERROR 501</td>
<td>ID keywords cannot follow AUD keyword.</td>
<td></td>
</tr>
<tr>
<td>I MISSING DATA, ERROR 101</td>
<td>No member number was given.</td>
<td></td>
</tr>
<tr>
<td>I MISSING KEYWORD, ERROR 1</td>
<td>No audit name was given.</td>
<td></td>
</tr>
<tr>
<td>I MISSING KEYWORD, ERROR 2</td>
<td>The INS keyword (and its data) is missing.</td>
<td></td>
</tr>
<tr>
<td>RANGE ERROR</td>
<td>Member number out of range.</td>
<td></td>
</tr>
<tr>
<td>NG ALREADY ALLOWED, ERROR 1</td>
<td>All member numbers associated with the audit name are already allowed. At least one member must not be currently allowed for the ALW:AUD input message to be executed.</td>
<td></td>
</tr>
<tr>
<td>NG ALREADY ALLOWED, ERROR 2</td>
<td>At least one of the specified members is already allowed. Use the OP:AUD input message to determine which members associated with the audit are currently allowed and which are not.</td>
<td></td>
</tr>
<tr>
<td>NG ALREADY ALLOWED, ERROR 3</td>
<td>The instance of the audit is already allowed.</td>
<td></td>
</tr>
<tr>
<td>NG ALREADY INHIBITED, ERROR 1</td>
<td>All the member numbers associated with the audit name are already inhibited. There must be at least one member number which is not inhibited.</td>
<td></td>
</tr>
<tr>
<td>NG ALREADY INHIBITED, ERROR 2</td>
<td>At least one of the specified members is already inhibited. Use the OP:AUD input message to determine which members associated with the audit are currently inhibited and which are not.</td>
<td></td>
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<tr>
<td>NG ALREADY INHIBITED, ERROR 3</td>
<td>The instance of the audit is already inhibited.</td>
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</tr>
<tr>
<td>NG NO CHANGE</td>
<td>No change.</td>
<td></td>
</tr>
<tr>
<td>NG NOT MANUAL AUDIT</td>
<td>Not manual audit.</td>
<td></td>
</tr>
<tr>
<td>NG NOT RUNNING</td>
<td>The audit specified to be stopped is not running.</td>
<td></td>
</tr>
<tr>
<td>RL ALREADY RUNNING</td>
<td>The requested audit is already running.</td>
<td></td>
</tr>
<tr>
<td>RL AUDIT BLOCKED</td>
<td>Audit blocked.</td>
<td></td>
</tr>
<tr>
<td>RL AUDIT PROCESS NOT FULLY CREATED</td>
<td>Audit has not been dispatched yet. Retry STOP:AUD later.</td>
<td></td>
</tr>
<tr>
<td>RL DIFFERENT MEMBER OF THIS AUDIT RUNNING</td>
<td>Another audit with the same name is already running. Only uniquely named audits are permitted to run at the same time. The OP:AUD input message may be used to obtain further information about currently running audits that may be preventing the initiation of the requested audit.</td>
<td></td>
</tr>
<tr>
<td>RL MAXIMUM KERNEL AUDITS RUNNING</td>
<td>A kernel process is already running. Only one kernel process audit may be run at any one time. (It may have been initiated manually, or by a system process.) The OP:AUD input message may be used to obtain further information about currently running audits that may be preventing the initiation of the requested audit.</td>
<td></td>
</tr>
<tr>
<td>RL MAXIMUM SUPERVISOR AUDITS</td>
<td>The maximum number of supervisor process audits is...</td>
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</table>

**NOTE:** If the following equipment configuration database error conditions continue, obtain technical assistance.
<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
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</thead>
<tbody>
<tr>
<td>RL</td>
<td>RUNNING AUDIT, ERROR 6</td>
</tr>
<tr>
<td>RL</td>
<td>RUNNING AUDIT, ERROR 7</td>
</tr>
<tr>
<td>RL</td>
<td>RUNNING AUDIT, ERROR 8</td>
</tr>
<tr>
<td>RL</td>
<td>RUNNING AUDIT, ERROR 11</td>
</tr>
<tr>
<td>RL</td>
<td>SIM INTERFACE ERROR 3</td>
</tr>
<tr>
<td>RL</td>
<td>SIM INTERFACE ERROR 4</td>
</tr>
<tr>
<td>RL</td>
<td>SIM INTERFACE ERROR 5</td>
</tr>
<tr>
<td>RL</td>
<td>SIM INTERFACE ERROR 10</td>
</tr>
<tr>
<td>RL</td>
<td>SIM INTERFACE ERROR 15</td>
</tr>
<tr>
<td>RL</td>
<td>SIM INTERFACE ERROR 19</td>
</tr>
<tr>
<td>RL</td>
<td>SIM INTERFACE ERROR 20</td>
</tr>
<tr>
<td>RL</td>
<td>SIM INTERFACE ERROR 23</td>
</tr>
</tbody>
</table>

The requested audit is already running. (They may have been initiated manually, or by a system process.) This number is controlled by a parameter in the system integrity monitor control (SIMCNTL) record in the equipment configuration database (ECD).

The OP:AUD input message may be used to obtain further information about currently running audits that may be preventing the initiation of the requested audit.

A kernel process audit is already running. Only one kernel process audit may run at any one time. (It may have been initiated manually or by a system process.)

The OP:AUD input message may be used to obtain further information about currently running audits which may be preventing the initiation of the requested audit.

The maximum number of supervisor process audits is already running. (They may have been initiated manually or by a system process.) This number is controlled by a parameter in the SIMCNTL record in the ECD.

The OP:AUD input message may be used to obtain further information about currently running audits which may be preventing the initiation of the requested audit.

Another audit with the same name is already running. Only uniquely named audits are permitted to run at the same time.

The OP:AUD input message may be used to obtain further information about currently running audits which may be preventing the initiation of the requested audit.

Audit system initialization is in progress.

Audit system initialization failed.

SIM was unable to access an equipment configuration database record using a record identifier (RID) passed to it by the input message program.

SIM failed to start the audit.

System integrity output formatter is dead.

An invalid record identifier (RID) was passed to SIM by the input message program.

An invalid instance record identifier (RID) was passed to SIM by the input message program.

Cannot stop a non-segmented audit.
1. APPENDIX

EXPLANATION OF NG RESPONSES APPENDIX

The following is a list of no good (NG) system responses that are used with many of the 5ESS® switch input messages for communication module (CM) units. NG acknowledgements are used when the syntax of a message is valid, but the message has been denied. Additional information is printed out to explain why the message was denied. Not all responses apply to all messages.

NG - ALL NOT VALID WITH A SINGLE UNIT = The ALL option was entered along with a single unit request, which is invalid.

NG - ATTEMPT TO ABORT OR STOP FAILED = A failure was encountered when trying to send an abort or stop request to another process. Try again later.

NG - ATTEMPT TO QUEUE OR SEND REQUEST FAILED = The request could not be put on the deferred maintenance queue, or a failure was encountered when trying to send the request.

NG - CM IS NOT ISOLATED FROM AM = The request has been denied because the CM was not isolated from the administrative module (AM) at the time of the request.

NG - CM ISOLATED FROM AM = The requested action cannot be performed because the CM has been manually isolated from the AM.

NG - COMMUNICATION MODULE VINTAGE MUST BE CM2 = The requested action has been denied because the communication module was an incorrect CM vintage.

NG - DEGROW OPTION NOT VALID FOR CM3 = The DEGROW option is no longer valid for the CM3 removal of a QGP or QLPS.

NG - DLI DOES NOT EXIST IN RSM = A message for a dual link interface (DLI) was entered, but the switching module (SM) type was found to be a remote switching module (RSM). No DLIs exist in an RSM.

NG - EX ALREADY QUEUED = An exercise (EX) START message was entered for unit on which an exercise is already running.

NG - EX INVALID FOR UNIT = An exercise (EX) was requested for a unit that an exercise cannot be run on. [Exercises can only be run on subunits; such as, they can be run on a module message processor (MMP), but not the entire message switch (MSGS).]

NG - EX NOT STARTED = An EX message (other than the START message) was entered for a unit on which there was no exercise previously running.

NG - FRC OPTION INVALID = The FORCE option no longer exists for the restore (RST) message.

NG - GROWTH BOARD IN GROWTH STATE = A request was made for a module message processor (MMP), but because the MMP growth board is in the GROWTH state, the request could not be honored.
NG - HELPER OPTION INVALID FOR UNIT = The HELPER option was entered for an invalid unit.

NG - INHIBIT OR ALLOW REQUEST NOT VALID FOR THIS UNIT = An inhibit or allow request was made for a unit for which hardware checks cannot be inhibited or allowed.

NG - INVALID COMMAND OR MISSING OPTION = Either the message entered is invalid or no option was entered for a message where one of several options is required.

NG - INVALID DLI SIDE SPECIFIED = The dual link interface (DLI) side entered in the input message was not 0 or 1.

NG - INVALID HELPER SIDE SPECIFIED = The HELPER side entered in the input message was not 0 or 1.

NG - INVALID MESSAGE OPTION = An invalid option was entered in the message. An example would be entering an unconditional (UCL) option on a RMV:MMP message.

NG - INVALID OPTION COMBINATION = Two options were entered together that don't make sense; for example, both MAJOR AND MINOR for an ONTC request.

NG - INVALID OR MISSING OPTION = No option was entered for a message that requires at least one of several options to be entered.

NG - INVALID RANGE = A request was entered with an invalid range, for example a range in decreasing order rather than increasing order.

NG - MAJOR OPTION INVALID FOR UNIT = The MAJOR option was entered for a unit other than the office network and timing complex (ONTC) or office network and timing complex common unit (ONTCCOM).

NG - MATE HELPER NOT IN SERVICE = A HELPER option was entered but the mate HELPER is not in service, therefore the request must be denied.

NG - NEED GROW OPTION FOR UNIT IN GROWTH STATE = The unit is in a growth or special growth state, and the GROW option was not used on the request.

NG - NEED GROW OPTION WHEN SM IS IN GROWTH STATE = All equipped SMs in the specified range are in the SGRO state, but no GROW option was used on the request.

NG - NO DLIs REQUESTED ARE EQUIPPED = No dual link interfaces (DLIs) in the range requested are equipped.

NG - NO HARDWARE CHECKS FOR CM1 MSCU = Messages to inhibit and allow hardware checks are not valid for a communication module model 1 (CM1) message switch control unit (MSCU).

NG - NO SMs REQUESTED ARE EQUIPPED = No switching modules (SMs) in the range requested are equipped.

NG - NO UNITs REQUESTED ARE EQUIPPED = No units in the range requested are equipped.

NG - NOT IN REQUESTED STATE = No units were found in the requested state.

NG - OFFLINE PARTITIONS NOT MOUNTED = The request requires access to files on the offline disk but no offline disk partitions are mounted.

NG - REMOVE REQUEST INVALID FOR TMSLNK = A remove is not a valid request for a TMSLNK.

NG - REQUEST ALREADY ACTIVE = A message was entered to stop or abort an action that is in an active state.
that cannot be stopped or aborted. An example of this is a remove request. Once it has been
scheduled from the deferred maintenance queue (DMQ), it cannot be stopped.

NG - REQUEST CANNOT BE ABORTED OR STOPPED = A message was entered to stop or abort an action that is
in a state where it cannot be stopped or aborted. An example of this is a remove request. Once it
has been scheduled from the deferred maintenance queue (DMQ), it cannot be stopped.

NG - REQUEST INVALID FOR UNIT = An invalid request was made for the unit.

NG - REQUEST NOT FOUND ON CM DMQ = A stop or abort was entered, and the unit and action could not be
found on the communication module deferred maintenance queue (DMQ). Use the
OP:DMQ-CM-SM input message to check what is currently on the queue.

NG - REQUEST NOT VALID FOR CM3 = A command was entered which is not supported by offices having CM3
vintage communications modules. Commands to diagnose or exercise individual message switch
subunits are not valid for CM3.

NG - RSMCL OPTION NOT VALID FOR CM3 = The RSMCL option is no longer valid for CM3. This option was
previously used to select an MMP/SDLC for RSMs. For CM3, this option will now be handled
automatically by Recent Change.

NG - STBY OPTION INVALID = The standby (STBY) option was entered for a unit that does not run
active/standby.

NG - SWITCH INVALID ON UNIT TYPE = A request was made to switch a unit for which a switch request is not
valid.

NG - TOO LATE TO ABORT OR STOP REQUEST = A request was made to stop or abort a diagnostic request
after the diagnostic was completed but before it was removed from the deferred maintenance
queue (DMQ).

NG - UCL OPTION INVALID = The unconditional (UCL) option is not valid on this type of request.

NG - UNIT HAS NO HDWCHK STATUS = An OP:HDWCHK request was made for a unit that hardware checks
cannot be inhibited or allowed on.

NG - UNIT IN GROWTH STATE = The unit is in a growth or special growth state, and the GROWTH option was
not used on the request.

NG - UNIT TYPE INCOMPATIBLE WITH NC TYPE = A request was made for a network clock subunit which is
inconsistent with the type of clock equipped.

NG - UNIT UNEQUIPPED = The unit the message was entered for is not in an operational state.
APP:COMMAND-GRP
Software Release: 5E14 and later
Message Class: N/A
Application: 5
Type: Input

1. APPENDIX: COMMAND GROUPS

<table>
<thead>
<tr>
<th>Command Group</th>
<th>Message ID</th>
</tr>
</thead>
<tbody>
<tr>
<td>ADMIN</td>
<td>ABT:LIB</td>
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<td>CLR:LIB</td>
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<tr>
<td></td>
<td>EXC:ENVIR-PROC</td>
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<td>EXC:ENVIR-UPROC</td>
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<td>LOAD:LIB</td>
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<td>OP:CONFIRM</td>
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<td>OP:LIB-DISK</td>
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<td>OP:LIB-STATUS</td>
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<td>SET:CONFIRM</td>
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<td>ST:LIB</td>
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<td>STP:LIB</td>
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<td>TELL:LIB</td>
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<tr>
<td>ALARM</td>
<td>ALW:ALM-A</td>
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<td>ALW:ALM-B</td>
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<td>CHG:ALM</td>
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<td>CLR:ALARMS</td>
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<td>CLR:LAMPS</td>
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<td>INH:ALM</td>
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<td>INH:RBPSC-SM</td>
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<td>OP:ALM</td>
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<td>SET:ALMMD</td>
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DGN:RPCN
DUMP:SMEAS
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EX:LN
EX:LOOP
EX:PAUSE
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235-600-700 December 2003
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SET: RT-FAC
SET: RT-FACOFFN
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ST: NIPMP-C
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STP: DCLU
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STP: DFIH
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STP: DGN-A
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STP: DNUSCD
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STP: DS1SFAC
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STP: EC1STE
STP: EX
STP: FAC
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STP: GDSUCOM
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STP: GDXCON
STP: GRID
STP: GRIDBD
STP: HDFI
STP: IDCU
STP: IDCUELI
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| STP:RST-RT | STP:RTFAC  |
| STP:RVPT   | STP:SAS    |
| STP:SCAN   | STP:SCTP   |
| STP:SDFI   | STP:SFI    |
| STP:SLIM   | STP:ST-SCTP|
| STP:STS1   | STP:STS3C  |
| STP:STSFAC | STP:SW     |
| STP:TAC    | STP:TEN    |
| STP:TMUX   | STP:TRIB   |
| STP:TTFCOM | STP:TUCHBD |
| STP:UCONF  | STP:UMBIL  |
| STP:UTD    | STP:UTG    |
| STP:VT15   | STP:VT1FAC |
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| SW:DNUSCD  | SW:DNUSEOC |
| SW:DNUSTMC | SW:GDXCON  |
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| SW:IDCUTMC | SW:ISLUCC  |
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| SW:LUCOMC  | SW:MCTSI   |
| SW:PLTLK   | SW:PSUCOM-A|
| SW:PSUCOM-B| SW:PSUPH   |
| SW:RCLK    | SW:RCOSC   |
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CLR:EMERDMP
CLR:ESM
CLR:ISOL-CM
CLR:ISOL-SM
CLR:MINMODE-CNI
CLR:MINMODE-SM
FRMV:LN
INH:CALLMON
INH:EAINT
INH:ERRCHK
INH:ERRINT
INH:ERRSRC
INH:HDWCHK
INH:PUMP-SM
INH:SFTCHK
INH:SFTCHK-SM
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INIT:AM-SPP-A
INIT:AM-SPP-B
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INIT:CMP
INIT:CMP-SPP
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INIT:DLN-SPP-PID
INIT:DSL
INIT:DSNPAGE
INIT:LN
INIT:SM-A
INIT:SM-B
INIT:SM-SPP
INIT:ULARP
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OP:ERRCHK
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OP:HISTORY-B
OP:PERF
OP:PM-PP-MCTSI
OP:PM-SM
OP:POSTMORT-A
OP:POSTMORT-B
OP:POSTMORT-CMP
OP:ST
ORD:CPI
RLS:PM-PP-MCTSI
RLS:PM-SM
RLS:POSTMORT
RST:PERF
RTR:CALLMON
SET:BACKOUT
SET:CALLMON
| SET: ISOL-CM                  |
| SET: ISOL-SM                 |
| SET: MINMODE-CNI             |
| SET: MINMODE-SM              |
| STP: PERF                    |

**TRACE**
- OP: CHANMAP-A
- OP: CHANMAP-B
- OP: CLID
- OP: COT-STATUS
- OP: DIGTRC
- OP: RTITRC
- OP: TRC
- SET: COT
- TRC: CLID
- TRC: IPCT-A
- TRC: IPCT-B
- TRC: UTIL-A
- TRC: UTIL-B
- TRC: UTIL-C

**TRFM**
- BKUP: TRFM

**TRK**
- ALW: S7ACK
- INH: S7ACK
- OP: S7ACK

**TRKLN**
- ABT: OTO
- ABT: TASK
- ABT: TASK-TLWS
- ALW: ALE-A
- ALW: ALE-B
- ALW: DEBUG
- ALW: FAC-A
- ALW: FAC-B
- ALW: FAC-C
- ALW: HWGRD
- ALW: MISMATCH
- ALW: PCTF
- ALW: RPC
- ALW: RTMTBOVR
- ALW: RTMTBPRT
- ASGN: TESTSET
- CLR: MWI
- CLR: PB
- CLR: TRUNK
- CLR: UPART
- CLR: WSDGTL
- CLR: WSFREQ
- CLR: WSOFPD
- CONN: WSIC
- CONN: WSJACK
- CONN: WSLINE
- CONN: WSPHONE
- CONN: WSPORT
- CONN: WSTRK-A
- CONN: WSTRK-B
- CONN: WSTRK-C
- DISC: WSLINE

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RLS:WSPOS
RLS:WSTST
RMV:BICCCADN
RMV:CPE
RMV:DATALINK
RMV:ISMNAIL
RMV:LINE
RMV:OSPSPORT
RMV:TRK-A
RMV:TRK-B
RMV:TRK-C
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STP:PM-B
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STP:TST-PATH-C
STP:TST-TRK
APP:DIG-TESTS

Software Release: 5E14 and later
Command Group: N/A
Application: 5
Type: Input

1. APPENDIX: DIGITAL TESTS

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<th>Test Type</th>
<th>Measurement</th>
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<th>Remarks</th>
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</table>
| LBK       | Bit error rate  
Error free blocks | 0.00E 00 errors per bit | Non-inverting test line at far end                |
| LBKCSU    | Bit error rate  
Error free blocks | 0.00E 00 errors per bit | Packet switched trunks only                       |
| LBKINV    | Bit error rate  
Error free blocks | 0.00E 00 errors per bit | Inverting test line at far end                    |
| LBKOCU    | Bit error rate  
Error free blocks | 0.00E 00 errors per bit | Packet switched trunks only                       |
| MANSCRE   | Bit error rate  
Error free blocks | 0.00E 00 errors per bit | Manually initiated non-inverting loopback at far end |
| SHCT      | Bit error rate  
Error free blocks | 0.00E 00 errors per bit | Speech handler para>trunks only                   |
# APP:E-CONF-POKES

**Software Release:** 5E14 and later  
**Message Class:** N/A  
**Application:** 5  
**Type:** Input  

## 1. APPENDIX: ENHANCED CONFIRMATION PROMPT POKE NUMBERS

This appendix is a list of Master Control Center (MCC) page and poke numbers for enhanced confirmation prompt.

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1. KEY ID APPENDIX

A "*" in the key ID field represents a secondary key. To request the form with this key, the other key ID associated with this form is required to be entered.

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<td>(5E12+) Numbering Plan Area.</td>
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APP:MEM-NUM-AUD
Software Release: 5E14 and later
Message Class: N/A
Application: 5,3B
Type: Input

1. APPENDIX

<table>
<thead>
<tr>
<th>Audit Name</th>
<th>Member Number</th>
<th>Audit Description</th>
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</thead>
<tbody>
<tr>
<td>CNC</td>
<td>1</td>
<td>Critical node control.</td>
</tr>
<tr>
<td>CUMEM</td>
<td>1</td>
<td>Control unit memory comparison.</td>
</tr>
<tr>
<td>CUSTAT</td>
<td>1</td>
<td>Control unit hardware status.</td>
</tr>
<tr>
<td>ECD</td>
<td>1</td>
<td>Incore equipment configuration database (ECD) structure.</td>
</tr>
<tr>
<td></td>
<td>2</td>
<td>Disk ECD structure.</td>
</tr>
<tr>
<td></td>
<td>3</td>
<td>Incore ECD raw data.</td>
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<tr>
<td>ECDOWN</td>
<td>1</td>
<td>ECD record ownership.</td>
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<tr>
<td>FMGR</td>
<td>1</td>
<td>File manager task queue.</td>
</tr>
<tr>
<td></td>
<td>2</td>
<td>File manager incore inode table.</td>
</tr>
<tr>
<td></td>
<td>3</td>
<td>File manager hash table &amp; inode pointer.</td>
</tr>
<tr>
<td></td>
<td>4</td>
<td>File manager file table.</td>
</tr>
<tr>
<td></td>
<td>5</td>
<td>File manager capability table.</td>
</tr>
<tr>
<td></td>
<td>6</td>
<td>File manager buffers.</td>
</tr>
<tr>
<td></td>
<td>7</td>
<td>File manager mount table.</td>
</tr>
<tr>
<td></td>
<td>8</td>
<td>File manager delayed queue.</td>
</tr>
<tr>
<td></td>
<td>9</td>
<td>File manager message queue.</td>
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<tr>
<td>FSBLK</td>
<td>1</td>
<td>File system block (all file systems).</td>
</tr>
<tr>
<td>FSCMPT</td>
<td>1</td>
<td>File system compaction (all file systems).</td>
</tr>
<tr>
<td>FSLINK</td>
<td>1</td>
<td>File system link (all file systems).</td>
</tr>
<tr>
<td>LKNODE</td>
<td>1</td>
<td>Link node data audit.</td>
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<tr>
<td>MMGR</td>
<td>1</td>
<td>Memory manager segment descriptor table.</td>
</tr>
<tr>
<td></td>
<td>2</td>
<td>Memory manager page tables.</td>
</tr>
<tr>
<td></td>
<td>3</td>
<td>Memory manager page descriptor table.</td>
</tr>
<tr>
<td></td>
<td>4</td>
<td>Memory manager segment release.</td>
</tr>
<tr>
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<td>5</td>
<td>Memory manager segment unlock.</td>
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<tr>
<td></td>
<td>9</td>
<td>Memory manager swap space compaction.</td>
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<td>MSGBUF</td>
<td>1</td>
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<td>2</td>
<td>Message buffer extenders.</td>
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<td>NIDATA</td>
<td>1</td>
<td>Internal office identification data audit.</td>
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<tr>
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<td>2</td>
<td>Internal link configuration data audit.</td>
</tr>
<tr>
<td></td>
<td>3</td>
<td>Internal logical-physical translation data audit.</td>
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<tr>
<td></td>
<td>4</td>
<td>Internal cluster/member data audit.</td>
</tr>
<tr>
<td></td>
<td>5</td>
<td>Internal subsystem information audit.</td>
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<tr>
<td></td>
<td>8</td>
<td>Internal global title translator data audit.</td>
</tr>
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<td>9</td>
<td>Internal network identifier routing data audit.</td>
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<td></td>
<td>10</td>
<td>Internal protocol timers/parameters data audit.</td>
</tr>
<tr>
<td>NMDATA</td>
<td>1 or 2</td>
<td>Network management audit.</td>
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<tr>
<td>NODEST</td>
<td>1</td>
<td>Node state audit.</td>
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<tr>
<td>PMS</td>
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<td>Plant measurements database integrity.</td>
</tr>
<tr>
<td></td>
<td>2</td>
<td>Plant measurements database recovery.</td>
</tr>
<tr>
<td>PROAD</td>
<td>1</td>
<td>Process administration.</td>
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APP:MEM-NUM-CU

Software Release: 5E14 and later
Message Class: N/A
Application: 5,3B
Type: Input

1. APPENDIX: MEMBER NUMBERS

Administrative module (AM) Control Unit (CU) Subunit Names and Member Numbers

<table>
<thead>
<tr>
<th>Subunit Name</th>
<th>Meaning</th>
<th>Allowed Member Numbers</th>
</tr>
</thead>
<tbody>
<tr>
<td>CC</td>
<td>Central control unit.</td>
<td>0</td>
</tr>
<tr>
<td>CH</td>
<td>Channel</td>
<td>0 - 19</td>
</tr>
<tr>
<td>CSU</td>
<td>Cache store unit.</td>
<td>0</td>
</tr>
<tr>
<td>DMA</td>
<td>Direct memory access unit.</td>
<td>0 or 1</td>
</tr>
<tr>
<td>MASC</td>
<td>Main store controller.</td>
<td>0 or 1</td>
</tr>
<tr>
<td>SAT</td>
<td>Store address translator.</td>
<td>0</td>
</tr>
<tr>
<td>UC</td>
<td>Utility circuit.</td>
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</table>
APP:MEM-NUM-UNIT

Software Release: 5E14 and later
Message Class: N/A
Application: 5,3B
Type: Input

1. APPENDIX: MEMBER NUMBERS

Administrative Module (AM) Hardware Unit Names And Member Numbers

<table>
<thead>
<tr>
<th>Unit Name</th>
<th>Meaning</th>
<th>*Allowed Member Numbers</th>
</tr>
</thead>
<tbody>
<tr>
<td>CU</td>
<td>Control unit</td>
<td>0 or 1</td>
</tr>
<tr>
<td>DCI</td>
<td>Dual serial channel/computer interconnect</td>
<td>0 - 255</td>
</tr>
<tr>
<td>DFC</td>
<td>Disk file controller</td>
<td>0 - 7</td>
</tr>
<tr>
<td>DUI</td>
<td>Direct user interface</td>
<td>0 - 255</td>
</tr>
<tr>
<td>DUIC</td>
<td>DUI controller</td>
<td>0 - 255</td>
</tr>
<tr>
<td>HSD</td>
<td>High-speed synchronous data link</td>
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<tr>
<td>HSDC</td>
<td>HSD controller</td>
<td>0 - 255</td>
</tr>
<tr>
<td>IOP</td>
<td>Input/output processor</td>
<td>0 - 15</td>
</tr>
<tr>
<td>LN00</td>
<td>Link node (group 00)</td>
<td>1 - 6</td>
</tr>
<tr>
<td>LN32</td>
<td>Link node (group 32)</td>
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<tr>
<td>MHD</td>
<td>Moving head disk</td>
<td>0 - 255</td>
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<tr>
<td>MSGS</td>
<td>Message switch</td>
<td>0 or 1</td>
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<td>MT</td>
<td>Magnetic tape drive</td>
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<td>MTC</td>
<td>Magnetic tape controller</td>
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<td>MTTY</td>
<td>Maintenance terminal</td>
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<td>MTTYC</td>
<td>MTTY controller</td>
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<td>RPCN00</td>
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<td>ROP</td>
<td>Receive-only printer</td>
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<td>SBUS</td>
<td>SCSI Bus</td>
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<tr>
<td>SCC</td>
<td>Switching control center data link</td>
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<tr>
<td>SCSDC</td>
<td>Scanner and signal distributor controller</td>
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<td>SDL</td>
<td>Synchronous data link</td>
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<tr>
<td>SDLC</td>
<td>Synchronous data link controller</td>
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<td>TTY</td>
<td>Terminal (other than MTTY)</td>
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<tr>
<td>TTYC</td>
<td>TTY controller (other than MTTYC)</td>
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</table>

* These represent the limits imposed by input messages. The actual member numbers of units in a administrative module (AM) computer system are defined in the equipment configuration data base for that system.
1. MESSAGE TYPE PARAMETER APPENDIX

If a particular parameter is not associated with a message type, an NA will be displayed in the first field for the parameter.

Some of the following message types have a limited set of parameters sent for event detection point request (EDP-R) messages as opposed to the full set for trigger detection point request (TDP-R) messages. In the following message types, the parameters that apply to the EDP-R are marked with an * to the right of the parameter. The rest of the parameters associated with the message type will not be included in the EDP-R messages whether populated or not. Also, note that for those message types that distinguish between EDP-R and TDP-R, the notification indicator parameter will only be part of the EDP-R and not the TDP-R.

<table>
<thead>
<tr>
<th>Message Type</th>
<th>Parameters</th>
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<tbody>
<tr>
<td>ALL</td>
<td>All of the ASP 0.1B test query parameters.</td>
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</table>
| CLOSE        | • Advanced intelligence network maintenance parameter.  
               • Bearer capability.  
               • Close cause.  
               • User ID. |
| INFOANAL     | • Advanced intelligence network maintenance parameter.  
               • Access code.  
               • Bearer capability.  
               • Called party ID.  
               • Calling party ID.  
               • Calling party business group ID.  
               • Charge number.  
               • Charge party station type.  
               • Collected address information.  
               • Collected digits.  
               • Global title address.  
               • Local access and transport area.  
               • Original called party ID.  
               • Origination point code.  
               • Primary carrier.  
               • Redirection information.  
               • Redirecting party ID.  
               • Timer.  
               • Translation type.  
               • Traveling class mark.  
               • Trigger criteria type.  
               • User ID.  
               • Vertical service code. |
| INFOCOLL     | • Advanced intelligence network maintenance parameter.  
               • Access code.  
               • Bearer capability.  
               • Calling party ID. |
- Charge number.
- Charge party station type.
- Collected address information.
- Collected digits.
- Extension parameters.
- Generic address list.
- Global title address.
- Local access and transport area.
- Original called party ID.
- Origination point code.
- Primary carrier.
- Redirection information.
- Redirecting party ID.
- Timer.
- Translation type.
- Traveling class mark.
- Trigger criteria type.
- User ID.
- Vertical service code.

**NTWKBSY**

- Advanced intelligence network maintenance parameter.*
- Bearer capability.*
- Called party ID.
- Calling party ID.
- Charge number.
- Charge party station type.
- Local access and transport area.
- Notification indicator.*
- Original called party ID.
- Origination point code.
- Primary carrier.
- Redirecting party ID.
- Redirection information.
- Timer.
- Traveling class mark.
- Trigger criteria type.
- User ID.*

**OANSWER**

- Advanced intelligence network maintenance parameter.
- Bearer capability.
- Notification indicator.
- User ID.

**OCLDPTYBSY**

- Advanced intelligence network maintenance parameter.*
- Bearer capability.*
- Busy cause.*
- Called party ID.
- Calling party ID.
- Charge number.
- Charge party station type.
- Local access and transport area.
- Notification indicator.*
<table>
<thead>
<tr>
<th>Term</th>
<th>Description</th>
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<tbody>
<tr>
<td>Original called party ID.</td>
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<tr>
<td>Origination point code.</td>
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<tr>
<td>Primary carrier.</td>
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<tr>
<td>Redirecting party ID.</td>
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<tr>
<td>Redirection information.</td>
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<td>Timer.</td>
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<tr>
<td>Trigger criteria type.</td>
<td></td>
</tr>
<tr>
<td>User ID.</td>
<td>*</td>
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</table>

**ODISCONNECT**

- Advanced intelligence network maintenance parameter.
- Bearer capability.
- Disconnect cause.
- Notification indicator.
- User ID.

**ODTMFENTRD**

- Advanced intelligence network maintenance parameter.
- Bearer capability.
- DTMF digits detected.
- Notification indicator.
- User ID.

**ONOANSWER**

- Advanced intelligence network maintenance parameter. *
- Bearer capability. *
- Called party ID.
- Calling party ID.
- Charge number.
- Charge party station type.
- Local access and transport area.
- Notification indicator. *
- Original called party ID.
- Origination point code.
- Primary carrier.
- Redirecting party ID.
- Redirection information.
- Timer.
- Trigger criteria type.
- User ID. *

**ORIGAT**

- Advanced intelligence network maintenance parameter.
- Bearer capability.
- Calling party ID.
- Charge number.
- Charge party station type.
- Global title address.
- Local access and transport area.
- Origination point code.
- Primary carrier.
- Timer.
- Translation type.
- Trigger criteria type.
- User ID.

**OTERMSZD**

- Advanced intelligence network maintenance parameter.
| RESCLR          | • Advanced intelligence network maintenance parameter.  
|                | • AMA measurement.  
|                | • Clear cause.  
|                | • Collected address information.  
|                | • Collected digits.  
|                | • Failure cause.  
|                | • Primary carrier.  
|                | • Timer.  
| TANSWER        | • Advanced intelligence network maintenance parameter.  
|                | • Bearer capability.  
|                | • Notification indicator.  
|                | • User ID.  
| TBUSY          | • Advanced intelligence network maintenance parameter.  
|                | • Bearer capability.  
|                | • Busy cause.  
|                | • Busy type.  
|                | • Called party ID.  
|                | • Called party station type.  
|                | • Calling party ID.  
|                | • Charge number.  
|                | • Charge party station type.  
|                | • Generic name.  
|                | • Local access and transport area.  
|                | • Notification indicator.  
|                | • Original called party ID.  
|                | • Origination point code.  
|                | • Redirecting party ID.  
|                | • Redirection information.  
|                | • Timer.  
|                | • Trigger criteria type.  
|                | • User ID.  
| TERMAT         | • Advanced intelligence network maintenance parameter.  
|                | • Bearer capability.  
|                | • Called party ID.  
|                | • Called party station type.  
|                | • Calling party ID.  
|                | • Charge number.  
|                | • Charge party station type.  
|                | • Generic name.  
|                | • Global title address.  
|                | • Local access and transport area.  
|                | • Original called party ID.  
|                | • Origination point code.  
|                | • Redirecting party ID.  
|                | • Redirection information.  
|                | • Timer.  

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<th>Translation type.</th>
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<td>Traveling class mark.</td>
</tr>
<tr>
<td>Trigger criteria type.</td>
</tr>
<tr>
<td>User ID.</td>
</tr>
</tbody>
</table>

**TNOANSWER**

- Advanced intelligence network maintenance parameter. *
- Bearer capability. *
- Called party ID.
- Called party station type.
- Calling party ID.
- Charge number.
- Charge party station type.
- Generic name.
- Local access and transport area.
- Notification indicator. *
- Original called party ID.
- Origination point code.
- Redirecting party ID.
- Redirection information.
- Timer.
- Trigger criteria type.
- User ID. *

**TRMRSRCAVL**

- Advanced intelligence network maintenance parameter.
- Bearer capability.
- Notification indicator.
- User ID.
## APPENDIX: SYSTEM PIDs FOR OKP

<table>
<thead>
<tr>
<th>PID</th>
<th>VALID RELEASE</th>
<th>DESCRIPTION</th>
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<tbody>
<tr>
<td>1</td>
<td>5E12 and later</td>
<td>OKP integrity control process</td>
</tr>
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<td>2</td>
<td>5E12 and later</td>
<td>Line insulation test process</td>
</tr>
<tr>
<td>4</td>
<td>5E12 and later</td>
<td>Cutover process</td>
</tr>
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<td>5</td>
<td>5E12 and later</td>
<td>Diagnostic supervisor time slot allocation control process</td>
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<td>Port status administrator</td>
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<td>Terminal maintenance error analysis</td>
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<td>Data delivery message control process</td>
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<td>11</td>
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<td>Overload control CP system process</td>
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<td>12</td>
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<td>Trunk line workstation automatic administrator</td>
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<td>13</td>
<td>5E12 and later</td>
<td>RSM call trace list periodic refresh</td>
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<td>5E12 and later</td>
<td>ISDN automatic customer rearrangement process</td>
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<td>15</td>
<td>5E12 and later</td>
<td>CM test process</td>
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<td>5E12 and later</td>
<td>CTTU job administrator process</td>
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<td>Database local transaction manager</td>
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<td>CP carrier group alarm process</td>
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<td>EADAS high priority message response process</td>
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<td>20</td>
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<td>Automatic trunk progression testing</td>
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<td>21</td>
<td>5E12 and later</td>
<td>Elevated audits system process</td>
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<td>5E12 and later</td>
<td>AMA data controller process</td>
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<td>5E12 and later</td>
<td>Utility call trace capability</td>
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<td>Measurements user input message process</td>
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<td>5E12 and later</td>
<td>Measurements report output control process</td>
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<td>EADAS low priority message response process</td>
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<td>System output controller process</td>
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<td>Port status out-of-service list coordinator</td>
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<td>30</td>
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<td>Service evaluation central manager</td>
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<td>31</td>
<td>5E12 and later</td>
<td>Data delivery deferred work scheduler</td>
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<td>32</td>
<td>5E12 and later</td>
<td>CP routine exercise controller</td>
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<td>34</td>
<td>5E12 and later</td>
<td>Controls interactive trunk and line maintenance tasks</td>
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<td>35</td>
<td>5E12 and later</td>
<td>CP timing process</td>
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<td>37</td>
<td>5E12 and later</td>
<td>Controls 100 second usage scanning</td>
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<td>Maintenance user input message handler</td>
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<td>5E12 and later</td>
<td>Maintenance user output message handler</td>
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<td>5E12 and later</td>
<td>Audits I/O communications process</td>
</tr>
<tr>
<td>43</td>
<td>5E12 and later</td>
<td>Maintains CCS signaling data consistency</td>
</tr>
<tr>
<td>44</td>
<td>5E12 and later</td>
<td>Integrity monitor process</td>
</tr>
<tr>
<td>45</td>
<td>5E12 and later</td>
<td>EDLCP/OSDS communication initialization process</td>
</tr>
<tr>
<td>46</td>
<td>5E12 and later</td>
<td>Supervisor for database roll forward</td>
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<tr>
<td>47</td>
<td>5E12 and later</td>
<td>Fast pump facility</td>
</tr>
<tr>
<td>55</td>
<td>5E12 and later</td>
<td>Maintains PSA, PST, and AML counts</td>
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<td>60</td>
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<td>Network management control and administration</td>
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<td>5E12 and later</td>
<td>Program update check patch count in PCB's</td>
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<tr>
<td>62</td>
<td>5E12 and later</td>
<td>Trunk error analysis process</td>
</tr>
<tr>
<td>64</td>
<td>5E12 and later</td>
<td>Routine audits system process</td>
</tr>
<tr>
<td>65</td>
<td>5E12 and later</td>
<td>MCC display page update process</td>
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<td>69</td>
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<td>Network management system process</td>
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<td>70</td>
<td>5E12 and later</td>
<td>Interprocessor data transport</td>
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<tr>
<td>71</td>
<td>5E12 and later</td>
<td>Receives MLT-2 messages</td>
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<tr>
<td>72</td>
<td>5E12 and later</td>
<td>Customer originated recent change administrator</td>
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<td>73</td>
<td>5E12 and later</td>
<td>Time of day controller</td>
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<td>76</td>
<td>5E12 and later</td>
<td>Provides CCS signaling message between switch and CNI ring</td>
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<tr>
<td>77</td>
<td>5E12 and later</td>
<td>Message broadcast capability</td>
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<td>78</td>
<td>5E12 and later</td>
<td>Common channel signaling maintenance</td>
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<td>79</td>
<td>5E12 and later</td>
<td>Group status administration process</td>
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<td>80</td>
<td>5E12 and later</td>
<td>Handles request from EADAS for 5 minute NM report</td>
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<td>81</td>
<td>5E12 and later</td>
<td>CCS trunk group message handling</td>
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<td>RMS-D3 control process</td>
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<td>Controls attached processor communication and flow control</td>
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<tr>
<td>92</td>
<td>Receives and prints error messages from DLN</td>
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<td>93</td>
<td>Provides handling for CCS direct signaling messages</td>
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<td>Air Extension™ alarm message handling</td>
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<td>99</td>
<td>Controls protocol monitoring sessions</td>
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<td>100</td>
<td>Receives and responds to high priority messages from RNMS using EDLCP</td>
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<td>Receives and responds to medium priority messages from RNMS using EDLCP</td>
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<td>102</td>
<td>Receives and responds to low priority messages from RNMS using EDLCP</td>
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<td>107</td>
<td>Transfers segment name of shared data segment to EDLAP process</td>
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<td>126</td>
<td>CCS call monitor system process</td>
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## Appendix: System PIDs for SMKP

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<th>Description</th>
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<td>4</td>
<td>5E12 and later</td>
<td>MSCU configuration process</td>
</tr>
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<td>5E12 and later</td>
<td>DLI configuration process</td>
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<td>MI configuration process</td>
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<td>5E12 and later</td>
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<td>FPC configuration process</td>
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<td>Network clock configuration process</td>
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<td>5E12 and later</td>
<td>TMS configuration process</td>
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<td>5E12 and later</td>
<td>Initialization fault recovery strategy process</td>
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<td>13</td>
<td>5E12 and later</td>
<td>PPC error recognition process</td>
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<td>14</td>
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<td>FPC error recognition process</td>
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<td>Communication link error recognition process</td>
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<td>Communication link normalization process</td>
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<td>Growth fault recovery strategy process</td>
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<td>TMS/MICU fault recovery strategy process</td>
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<td>Communication link analysis and recovery strategy process</td>
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<td>32</td>
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<td>MSG communication test process</td>
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<td>Audits I/O communication process</td>
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<td>Central processor intervention strategy process</td>
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<td>PCD database update process</td>
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<td>48</td>
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1. APPENDIX: SYSTEM PIDs FOR THE CMP

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<th>DESCRIPTION</th>
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<td>High priority resident fault recovery</td>
</tr>
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<td>5E12 and later</td>
<td>Network control system process</td>
</tr>
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<td>9</td>
<td>5E12 and later</td>
<td>Data delivery system process</td>
</tr>
<tr>
<td>11</td>
<td>5E12 and later</td>
<td>Resource and real time overload monitoring</td>
</tr>
<tr>
<td>13</td>
<td>5E12 and later</td>
<td>Low priority resident fault recovery</td>
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<td>5E12 and later</td>
<td>Database local transaction manager</td>
</tr>
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<td>5E12 and later</td>
<td>Generic utilities system process</td>
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<td>5E12 and later</td>
<td>Elevated audits system process</td>
</tr>
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<td>24</td>
<td>5E12 and later</td>
<td>Database roll forward system process</td>
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<td>System output controller process</td>
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<td>5E12 and later</td>
<td>10 second measurement scanning</td>
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<td>30</td>
<td>5E12 and later</td>
<td>Scans OSPS ACD serving teams for spare capacity</td>
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<td>5E12 and later</td>
<td>Automatic reconfiguration of OSPS operators</td>
</tr>
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<td>System time synchronization process</td>
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<td>100 second measurement scanning</td>
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<td>38</td>
<td>5E12 and later</td>
<td>Controlling and collecting of CMP measurements data</td>
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<tr>
<td>41</td>
<td>5E12 and later</td>
<td>Audit I/O communication process</td>
</tr>
<tr>
<td>43</td>
<td>5E12 and later</td>
<td>Maintains CCS signaling data consistency</td>
</tr>
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<td>44</td>
<td>5E12 and later</td>
<td>Integrity monitor system process</td>
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<td>5E12 and later</td>
<td>Master system process for message handling</td>
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<td>Program update text and data overwrites</td>
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<td>61</td>
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<td>Program update check patch count in PCB's</td>
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<tr>
<td>64</td>
<td>5E12 and later</td>
<td>Module routine audit process</td>
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<tr>
<td>66</td>
<td>5E12 and later</td>
<td>Routing and terminal allocation call processing</td>
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<td>68</td>
<td>5E12 and later</td>
<td>Network control administration</td>
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<td>Time of day controller</td>
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<td>128</td>
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<td>Packet call processing system process</td>
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## APPENDIX

<table>
<thead>
<tr>
<th>PID</th>
<th>VALID RELEASE</th>
<th>DESCRIPTION</th>
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<tbody>
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<td>Module integrity control process</td>
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<td>Background scheduler</td>
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<td>Data delivery message control process</td>
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<td>Remote module alarm process</td>
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<td>5E12 and later</td>
<td>Mate memory exerciser control</td>
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<td>Routing and terminal allocation system process</td>
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<td>Database tuple level access process</td>
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<td>5E12 and later</td>
<td>Cutover system process</td>
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<td>5E12 and later</td>
<td>Generic utilities process</td>
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<td>5E12 and later</td>
<td>Elevated audits process</td>
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<td>Port status out-of-service list generator</td>
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<td>Utility call trace process</td>
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<td>Module alarm process</td>
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<td>System output controller process</td>
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<td>5E12 and later</td>
<td>Multiway supervisor process</td>
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<td>External Information System system process</td>
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<td>Module carrier group alarm process</td>
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<td>Call record assembler initialization control</td>
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<td>Administrative services test process</td>
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<td>AMA data controller process</td>
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<td>System time synchronization process</td>
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<td>10 second scanning control process for measurements</td>
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<td>100 second scanning control process for measurements</td>
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<td>Diagnostics paging supervisor</td>
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<td>Processes output requests</td>
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<td>Scan/distribute point controller process</td>
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<td>Remote SM DFI message handler</td>
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<td>Disk to core hashsum check process</td>
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<td>EOC flow control timing system process</td>
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<td>5E12 and later</td>
<td>Remote supervisor process for diagnostics</td>
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<td>Hardware checks inhibit/allow process</td>
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<td>5E12 and later Controls billing for call forwarding legs of a call</td>
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<td>5E12 and later Customer originated recent change logging</td>
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<td>76</td>
<td>5E12 and later Automatic call back calling feature</td>
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<td>5E12 and later Maintenance of remote clock unit</td>
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<td>5E12 and later Distributed control of associate terminals</td>
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<td>5E12 and later Responsible for CCS message dispensing in the SM</td>
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<td>5E12 and later Maintenance request administrator input handler</td>
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<td>5E12 and later Provides current information status for all OSPS OAPs</td>
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<td>5E12 and later Data transport and user I/O for ISDN</td>
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<td>5E12 and later Automatic charge quotation service system process</td>
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<td>5E12 and later Control and collect AMA records from PH</td>
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<td>5E12 and later Receive and process messages from AP</td>
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<td>5E12 and later Packet routing system process for packet call processing</td>
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<tr>
<td>111</td>
<td>5E12 and later Stress testing and verifying applications processor</td>
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</tr>
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<td>112</td>
<td>5E12 and later Performance and protocol monitoring</td>
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<td>114</td>
<td>5E12 and later Cyclic update for multi-line hunt group lamps</td>
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<td>5E12 and later Protocol error record handling</td>
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<td>116</td>
<td>5E12 and later Remote access system process</td>
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<td>117</td>
<td>5E12 and later ATS system process</td>
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<td>118</td>
<td>5E12 and later ACD/BRC system process (ACDSP)</td>
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<td>119</td>
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<td>120</td>
<td>5E12 and later Access manager/visiting location register</td>
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**APP:POINT-CODE**

**Software Release:** 5E14 and later  
**Message Class:** N/A  
**Application:** 5  
**Type:** Input

## 1. APPENDIX

The following describes the destination point code (entered as DPC or DPCID in input messages) and origination point code (entered as OPC) input parameters are entered as 9-digit numbers of the form:

```
aaabbbddd
```

These parameters can be parsed into four possible formats.

The last format is used for CNI inter-module trunks (IMTs) and only applies to DPCs.

### Format 1: ANSI® format

<table>
<thead>
<tr>
<th>variable</th>
<th>value(s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>aaa</td>
<td>network (001-235, 237-253, 255)</td>
</tr>
<tr>
<td>bbc</td>
<td>cluster (000-255)</td>
</tr>
<tr>
<td>ddd</td>
<td>cluster member (000-255)</td>
</tr>
</tbody>
</table>

### Format 2: AT&T format

<table>
<thead>
<tr>
<th>variable</th>
<th>value(s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>aaa</td>
<td>network (254)</td>
</tr>
<tr>
<td>bb</td>
<td>cluster region (00-31)</td>
</tr>
<tr>
<td>c</td>
<td>cluster type (0-7)</td>
</tr>
<tr>
<td>ddd</td>
<td>cluster member (000-255)</td>
</tr>
</tbody>
</table>

### Format 3: UNITEL format

<table>
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<th>value(s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>aaa</td>
<td>network (236)</td>
</tr>
<tr>
<td>bb</td>
<td>cluster region (00-31)</td>
</tr>
<tr>
<td>c</td>
<td>cluster type (0-7)</td>
</tr>
<tr>
<td>ddd</td>
<td>cluster member (000-255)</td>
</tr>
</tbody>
</table>

### Format 4: IMT format

<table>
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<th>value(s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>aaa</td>
<td>network (000)</td>
</tr>
<tr>
<td>bbc</td>
<td>near SM number (1-192)</td>
</tr>
<tr>
<td>ddd</td>
<td>far SM number (1-192)</td>
</tr>
</tbody>
</table>

An OPC is entered based upon the value of its network. DPCs are entered based upon their own network and the network of their corresponding OPCs, as delineated in the table below:

<table>
<thead>
<tr>
<th>DPC network</th>
<th>OPC uses Format 1</th>
<th>OPC uses Format 2</th>
<th>OPC uses Format 3</th>
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</thead>
<tbody>
<tr>
<td>network = 254</td>
<td>use Format 1</td>
<td>use Format 1</td>
<td>use Format 1</td>
</tr>
<tr>
<td>network = 236</td>
<td>use Format 1</td>
<td>use Format 1</td>
<td>use Format 1</td>
</tr>
<tr>
<td>network = 0</td>
<td>use Format 4</td>
<td>use Format 4</td>
<td>use Format 4</td>
</tr>
</tbody>
</table>
APP: RANGES

Software Release: 5E14 and later
Message Class: N/A
Application: 5
Type: Input

1. APPENDIX: UNIT/EQUIPMENT RANGES FOR INPUT MESSAGES

This appendix is a list of units/equipment and the valid maximum range for use in input messages. This maximum may not coincide with the way that an individual switch is configured.

Access Interface Unit (AIU)

<table>
<thead>
<tr>
<th>Unit/Equipment</th>
<th>When Used With</th>
<th>Valid Range(s)/Value(s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>aiu</td>
<td>AIU</td>
<td>[0-7], with SM-2000 [0-42]</td>
</tr>
<tr>
<td>aiu</td>
<td>AIUCOM</td>
<td>[0-7], with SM-2000 [0-42]</td>
</tr>
<tr>
<td>aiu</td>
<td>AIULC</td>
<td>[0-7], with SM-2000 [0-42]</td>
</tr>
<tr>
<td>aiu</td>
<td>AIULP</td>
<td>[0-7], with SM-2000 [0-42]</td>
</tr>
<tr>
<td>aiu</td>
<td>AIURG</td>
<td>[0-7], with SM-2000 [0-42]</td>
</tr>
<tr>
<td>aiu</td>
<td>AIUTSGRP</td>
<td>[0-7], with SM-2000 [0-42]</td>
</tr>
<tr>
<td>aiu</td>
<td>AIUEN</td>
<td>[0-7], with SM-2000 [0-42]</td>
</tr>
</tbody>
</table>

Analog Line Card (ZLC)

<table>
<thead>
<tr>
<th>Unit/Equipment</th>
<th>When Used With</th>
<th>Valid Range(s)/Value(s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>zlc</td>
<td>ISLU-Z</td>
<td>[0-31]</td>
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Association

<table>
<thead>
<tr>
<th>Unit/Equipment</th>
<th>When Used With</th>
<th>Valid Range(s)/Value(s)</th>
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</thead>
<tbody>
<tr>
<td>association</td>
<td>SCTP</td>
<td>[1-1023], (5E16(2)+)</td>
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</table>

Block Sequence Number (BLK)

<table>
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<tr>
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<th>When Used With</th>
<th>Valid Range(s)/Value(s)</th>
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</thead>
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<td>blk</td>
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<td>[1-999999]</td>
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</table>

Board (BRD)

<table>
<thead>
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<th>When Used With</th>
<th>Valid Range(s)/Value(s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>brd</td>
<td>ALINK</td>
<td>[0-1]</td>
</tr>
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<td>brd</td>
<td>ALIT</td>
<td>[0-31]</td>
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<tr>
<td>brd</td>
<td>DFTAC</td>
<td>[0-31]</td>
</tr>
<tr>
<td>brd</td>
<td>DIST</td>
<td>[0-31]</td>
</tr>
<tr>
<td>brd</td>
<td>GDXC</td>
<td>[0-31]</td>
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<td>brd</td>
<td>GRIDBD</td>
<td>[0-1]</td>
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<td>brd</td>
<td>HDFI</td>
<td>[0-7]</td>
</tr>
<tr>
<td>brd</td>
<td>LEN</td>
<td>[0-1]</td>
</tr>
<tr>
<td>brd</td>
<td>LUCHAN</td>
<td>[0-3]</td>
</tr>
<tr>
<td>brd</td>
<td>LUCHBD</td>
<td>[0-3]</td>
</tr>
<tr>
<td>brd</td>
<td>MA</td>
<td>[0-31]</td>
</tr>
<tr>
<td>brd</td>
<td>TEN</td>
<td>[0-7]</td>
</tr>
<tr>
<td>brd</td>
<td>TUCHBD</td>
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CC (Refer to: Common Controller)

CD (Refer to: Common Data)

Center

<table>
<thead>
<tr>
<th>Unit/Equipment</th>
<th>When Used With</th>
<th>Valid Range(s)/Value(s)</th>
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<tbody>
<tr>
<td>center</td>
<td>OAPF</td>
<td>[1-8]</td>
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<tr>
<td>center</td>
<td>OAPO</td>
<td>[1-32]</td>
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### Channel

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<tr>
<td>channel DEN</td>
<td>[1-48]</td>
<td></td>
</tr>
<tr>
<td>channel ILEN</td>
<td>[1-24]</td>
<td>For PUB43801 facilities</td>
</tr>
<tr>
<td>channel LUCHAN</td>
<td>[0-7]</td>
<td></td>
</tr>
<tr>
<td>channel NEN</td>
<td>[1-24]</td>
<td></td>
</tr>
<tr>
<td>channel OIEN</td>
<td>[1-24]</td>
<td></td>
</tr>
<tr>
<td>channel PLTEN</td>
<td>[1-24] [5E15+]</td>
<td></td>
</tr>
<tr>
<td>channel PSUEN</td>
<td>[0-127]</td>
<td></td>
</tr>
<tr>
<td>channel RAF</td>
<td>[0-31]</td>
<td></td>
</tr>
<tr>
<td>channel SAS</td>
<td>[0-31]</td>
<td></td>
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<tr>
<td>channel UEN</td>
<td>[0-127]</td>
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### Channel Group (CHGRP)

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<tr>
<td>chgrp CHGRP</td>
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<td></td>
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<tr>
<td>chgrp PSUEN</td>
<td></td>
<td></td>
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<tr>
<td>chgrp UEN</td>
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**CHGRP** (Refer to: Channel Group)

**CIC** (Refer to: Circuit Identification Code)

### Circuit (CKT)

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<tr>
<td>ckt LUHLSC</td>
<td>[0-2]</td>
<td></td>
</tr>
<tr>
<td>ckt PMU</td>
<td>[0-7]</td>
<td></td>
</tr>
<tr>
<td>ckt RVPT</td>
<td>[0-7]</td>
<td></td>
</tr>
<tr>
<td>ckt SCAN</td>
<td>[0-31]</td>
<td></td>
</tr>
<tr>
<td>ckt SLIM</td>
<td>[0-31]</td>
<td></td>
</tr>
<tr>
<td>ckt TEN</td>
<td>[0-3]</td>
<td></td>
</tr>
<tr>
<td>ckt TTFCOM</td>
<td>[0-7]</td>
<td></td>
</tr>
<tr>
<td>ckt UCONF</td>
<td>[0-7]</td>
<td></td>
</tr>
<tr>
<td>ckt UTD</td>
<td>[0-7]</td>
<td></td>
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<td>ckt UTG</td>
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### Circuit/Carrier Identification Code (CIC)

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<tr>
<td>cic SS7</td>
<td>[0-16382]</td>
<td></td>
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<tr>
<td>cic BICC</td>
<td>[0-4294967294]</td>
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**CKT** (Refer to: Circuit)

### Class

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<tr>
<td>class DEST</td>
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**CLNK** (Refer to: Communication Link)

### Cluster (CLST)

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<tbody>
<tr>
<td>clst DPC</td>
<td>[0-255]</td>
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<tr>
<td>clst DPCID</td>
<td>[0-255]</td>
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### Cluster Member (CMBR)

<table>
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<th>When Used With</th>
<th>Valid Range(s)/Value(s)</th>
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<tbody>
<tr>
<td>cmbr DPC</td>
<td>[0-255]</td>
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</table>
Cluster Region (CRGN)

<table>
<thead>
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<th>When Used With</th>
<th>Valid Range(s)/Value(s)</th>
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<tbody>
<tr>
<td>crgn</td>
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</table>

Cluster Type (CTYP)

<table>
<thead>
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<th>Unit/Equipment</th>
<th>When Used With</th>
<th>Valid Range(s)/Value(s)</th>
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<tr>
<td>ctyp</td>
<td>DPC</td>
<td>[0-7]</td>
</tr>
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</table>

CMBR  (Refer to: Cluster Member)

CMP  (Refer to: Communication Module Processor)

COMDAC  (Refer to: Common Data and Control Controller)

Common Controller (CC)

<table>
<thead>
<tr>
<th>Unit/Equipment</th>
<th>When Used With</th>
<th>Valid Range(s)/Value(s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>cc</td>
<td>DNUSCC</td>
<td>[0-1]</td>
</tr>
<tr>
<td>cc</td>
<td>ISLU</td>
<td>[0-1]</td>
</tr>
<tr>
<td>cc</td>
<td>ISLUCC</td>
<td>[0-1]</td>
</tr>
</tbody>
</table>

Common Data (CD)

<table>
<thead>
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<th>When Used With</th>
<th>Valid Range(s)/Value(s)</th>
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</thead>
<tbody>
<tr>
<td>cd</td>
<td>DNUSCD</td>
<td>[0-1]</td>
</tr>
<tr>
<td>cd</td>
<td>ISLU</td>
<td>[0-1]</td>
</tr>
<tr>
<td>cd</td>
<td>ISLUCC</td>
<td>[0-1]</td>
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</tbody>
</table>

Common Data and Control Controller (COMDAC)

<table>
<thead>
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<th>Valid Range(s)/Value(s)</th>
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<tr>
<td>comdac</td>
<td>AIUCOM</td>
<td>[0-1]</td>
</tr>
<tr>
<td>comdac</td>
<td>AIURG</td>
<td>[0-1]</td>
</tr>
<tr>
<td>comdac</td>
<td>AIUTSGRP</td>
<td>[0-1]</td>
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Communication Link (CLNK)

<table>
<thead>
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<th>Unit/Equipment</th>
<th>When Used With</th>
<th>Valid Range(s)/Value(s)</th>
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<tbody>
<tr>
<td>clnk</td>
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</table>

Communication Module Processor (CMP)

<table>
<thead>
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<th>When Used With</th>
<th>Valid Range(s)/Value(s)</th>
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<tr>
<td>cmp</td>
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Concentrator

<table>
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<th>When Used With</th>
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<tbody>
<tr>
<td>concentrator</td>
<td>LEN</td>
<td>[0-9] for LU3, [0-7] for LU2</td>
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Customer ID (CUSTID)

<table>
<thead>
<tr>
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<th>When Used With</th>
<th>Valid Range(s)/Value(s)</th>
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<tr>
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CRGN  (Refer to: Cluster Region)

CTYP  (Refer to: Cluster Type)

Data Group (DG)
<table>
<thead>
<tr>
<th>Unit/Equipment</th>
<th>When Used With</th>
<th>Valid Range(s)/Value(s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>dg</td>
<td>DNUSCD</td>
<td>0-1</td>
</tr>
<tr>
<td>dg</td>
<td>DS1SFAC</td>
<td>0-1</td>
</tr>
<tr>
<td>dg</td>
<td>NEN</td>
<td>0-1</td>
</tr>
<tr>
<td>dg</td>
<td>SFI</td>
<td>0-1</td>
</tr>
<tr>
<td>dg</td>
<td>EC1STE</td>
<td>0-1</td>
</tr>
<tr>
<td>dg</td>
<td>STSFAC</td>
<td>0-1</td>
</tr>
<tr>
<td>dg</td>
<td>TMUX</td>
<td>0-1</td>
</tr>
<tr>
<td>dg</td>
<td>VT1FAC</td>
<td>0-1</td>
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</tbody>
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DCHAN (Refer to: Digital Channel)

DCLU (Refer to: Digital Carrier Line Unit)

DCTU (Refer to: Directly Coupled Test Unit)

Destination Point Code (DPC)

<table>
<thead>
<tr>
<th>Unit/Equipment</th>
<th>When Used With</th>
<th>Valid Range(s)/Value(s)</th>
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</thead>
<tbody>
<tr>
<td>dpc</td>
<td>DPC</td>
<td>1-254</td>
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DFI (Refer to: Digital Facility Interface)

DG (Refer to: Data Group)

Digit Analysis Selector (DAS)

<table>
<thead>
<tr>
<th>Unit/Equipment</th>
<th>When Used With</th>
<th>Valid Range(s)/Value(s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>das</td>
<td>DAS</td>
<td>1-99 [5E14 only] 1-254 [5E15+]</td>
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</tbody>
</table>

Digital Carrier Line Unit (DCLU)

<table>
<thead>
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<th>Unit/Equipment</th>
<th>When Used With</th>
<th>Valid Range(s)/Value(s)</th>
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</thead>
<tbody>
<tr>
<td>dclu</td>
<td>DCLU</td>
<td>0-15</td>
</tr>
<tr>
<td>dclu</td>
<td>SDFI</td>
<td>0-15</td>
</tr>
<tr>
<td>dclu</td>
<td>SLEN</td>
<td>0-15</td>
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Digital Channel (DCHAN)

<table>
<thead>
<tr>
<th>Unit/Equipment</th>
<th>When Used With</th>
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<tr>
<td>dchan</td>
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Digital Facility Interface (DFI)

<table>
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<tr>
<td>dfi</td>
<td>CDFI</td>
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<tr>
<td>dfi</td>
<td>DEN</td>
<td>1-10</td>
</tr>
<tr>
<td>dfi</td>
<td>DFI</td>
<td>1-10</td>
</tr>
<tr>
<td>dfi</td>
<td>DFIH</td>
<td>1-16</td>
</tr>
<tr>
<td>dfi</td>
<td>FAC</td>
<td>1-10</td>
</tr>
<tr>
<td>dfi</td>
<td>HDFI</td>
<td>1-10</td>
</tr>
<tr>
<td>dfi</td>
<td>RCL</td>
<td>1-10</td>
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<tr>
<td>dfi</td>
<td>RDFI</td>
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Digital Line and Trunk Unit (DLTU)

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<td>dltu</td>
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</tr>
<tr>
<td>dltu</td>
<td>DEN</td>
<td>0-11</td>
</tr>
<tr>
<td>dltu</td>
<td>DFI</td>
<td>0-11</td>
</tr>
<tr>
<td>dltu</td>
<td>DFIH</td>
<td>0-11</td>
</tr>
<tr>
<td>dltu</td>
<td>FAC</td>
<td>0-11</td>
</tr>
<tr>
<td>dltu</td>
<td>RCL</td>
<td>0-11</td>
</tr>
<tr>
<td>dltu</td>
<td>HDFI</td>
<td>0-11</td>
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Digital Networking Unit - Synchronous Optical Network (DNUS)

<table>
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<tbody>
<tr>
<td>dnus</td>
<td>DNUSCC</td>
<td>0-7</td>
</tr>
<tr>
<td>dnus</td>
<td>DNUSCD</td>
<td>0-7</td>
</tr>
<tr>
<td>dnus</td>
<td>DNUSEOC</td>
<td>0-7</td>
</tr>
<tr>
<td>dnus</td>
<td>DNUSTMC</td>
<td>0-7</td>
</tr>
<tr>
<td>dnus</td>
<td>DS1SFAC</td>
<td>0-7</td>
</tr>
<tr>
<td>dnus</td>
<td>INEN</td>
<td>0-7</td>
</tr>
<tr>
<td>dnus</td>
<td>NEN</td>
<td>0-7</td>
</tr>
<tr>
<td>dnus</td>
<td>SFI</td>
<td>0-7</td>
</tr>
<tr>
<td>dnus</td>
<td>EC1STE</td>
<td>0-7</td>
</tr>
<tr>
<td>dnus</td>
<td>STSFAC</td>
<td>0-7</td>
</tr>
<tr>
<td>dnus</td>
<td>TMUX</td>
<td>0-7</td>
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Digital Signal Level 0 (DS0)

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<td>ds0</td>
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<td>1-24</td>
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<td>ds0</td>
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Digital Signal Level 1 (DS1)

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<tr>
<td>ds1</td>
<td>DS1SFAC</td>
<td>1-28</td>
</tr>
<tr>
<td>ds1</td>
<td>ILEN</td>
<td>[51-90] for PUB43801 facilities</td>
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Directly Coupled Test Unit (DCTU)

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<th>When Used With</th>
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<tr>
<td>dctu</td>
<td>DCTUCOM</td>
<td>0-7</td>
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<tr>
<td>dctu</td>
<td>DCTUPORT</td>
<td>0-7</td>
</tr>
<tr>
<td>dctu</td>
<td>EAN</td>
<td>0-7</td>
</tr>
<tr>
<td>dctu</td>
<td>PMU</td>
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DLTU (Refer to: Digital Line and Trunk Unit)

DNUS (Refer to: Digital Networking Unit - Synchronous Optical Network)

DPC (Refer to: Destination Point Code)

DS0 (Refer to: Digital Signal Level 0)

DS1 (Refer to: Digital Signal Level 1)

Dual Link Interface (DLI)

<table>
<thead>
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Duration (DUR)

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<tr>
<td>dur</td>
<td>DUR</td>
<td>[1-86400]</td>
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EIS (Refer to: Expanded Inband Signaling)

Electrical Line Interface (ELI)

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<th>When Used With</th>
<th>Valid Range(s)/Value(s)</th>
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</thead>
<tbody>
<tr>
<td>eli</td>
<td>IDCUELI</td>
<td>0-1</td>
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</table>

Embedded Operations Channel (EOC)
<table>
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<th>When Used With</th>
<th>Valid Range(s)/Value(s)</th>
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</thead>
<tbody>
<tr>
<td>eoc</td>
<td>DNUSEOC</td>
<td>[0-1]</td>
</tr>
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<td>eoc</td>
<td>IDCUEOC</td>
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Expanded Inband Signaling (EIS)

<table>
<thead>
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<th>When Used With</th>
<th>Valid Range(s)/Value(s)</th>
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<tbody>
<tr>
<td>eis</td>
<td>EIS</td>
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</table>

Facility (FAC)

<table>
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<th>When Used With</th>
<th>Valid Range(s)/Value(s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>fac</td>
<td>FAC</td>
<td>[1-28,A,B,C,D,P][0-1]</td>
</tr>
<tr>
<td>fac</td>
<td>RCL</td>
<td>[0-1]</td>
</tr>
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</table>

Foundation Peripheral Controller (FPC)

<table>
<thead>
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<th>Unit/Equipment</th>
<th>When Used With</th>
<th>Valid Range(s)/Value(s)</th>
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</thead>
<tbody>
<tr>
<td>fpc</td>
<td>FPC</td>
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</tbody>
</table>

Gated Diode Crosspoint Grid (GRD)

<table>
<thead>
<tr>
<th>Unit/Equipment</th>
<th>When Used With</th>
<th>Valid Range(s)/Value(s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>grd</td>
<td>ALINK</td>
<td>[0-9]</td>
</tr>
<tr>
<td>grd</td>
<td>GRID</td>
<td>[0-7]</td>
</tr>
<tr>
<td>grd</td>
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Global Digital Services Function (GDSF)

<table>
<thead>
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<th>Valid Range(s)/Value(s)</th>
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<tbody>
<tr>
<td>gdsf</td>
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Global Digital Service Unit (GDSU)

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<td>TTFCOM</td>
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Global Title Digits (GTD)

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Global Title Translation (GTT)

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Group

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<tr>
<td>group</td>
<td>AP</td>
<td>[1-999]</td>
</tr>
<tr>
<td>group</td>
<td>AQ</td>
<td>[1]</td>
</tr>
<tr>
<td>group</td>
<td>AQM</td>
<td>[1]</td>
</tr>
<tr>
<td>group</td>
<td>BG</td>
<td>[7000-7999]</td>
</tr>
<tr>
<td>group</td>
<td>BICCG</td>
<td>[7000-7999]</td>
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<td>group</td>
<td>DASC</td>
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<td>[0,32] for CNI only</td>
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<td>[1-999]</td>
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<td>group</td>
<td>HOBICV</td>
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<td>Group</td>
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<td>[1,2,33,34]</td>
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<td>[1,2,33,34]</td>
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<td>RTRS</td>
<td>[1,999]</td>
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<td>[1,2,33,34]</td>
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<td>SLK</td>
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<td>TEN</td>
<td>[0-7]</td>
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<td>Group</td>
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<td>TKGMN</td>
<td>[1-2000], for BICC [7000-7999]</td>
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**High Level Service Circuit (HLSC)**

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**Host Switching Module (HSM)**

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HSM (Refer to: Host Switching Module)

IDCU (Refer to: Integrated Digital Carrier Unit)

**IDCU Facility (IFAC)**

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<tr>
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**Index**

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<td>PIDXMEM</td>
<td>[0-40959]</td>
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<tr>
<td>index</td>
<td>PIDXNM</td>
<td>[0-255]</td>
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<tr>
<td>index</td>
<td>PIDXPA</td>
<td>[0-255]</td>
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<td>RTI</td>
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**Integrated Digital Carrier Unit (IDCU)**

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<tr>
<td>idcu</td>
<td>IDCUEOC</td>
<td>[0-7], with SM-2000 [0-42]</td>
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<tr>
<td>idcu</td>
<td>GEN</td>
<td>[0-7], with SM-2000 [0-42]</td>
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<td>idcu</td>
<td>IDCUELI</td>
<td>[0-7], with SM-2000 [0-42]</td>
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<tr>
<td>idcu</td>
<td>IDCUPIDB</td>
<td>[0-7], with SM-2000 [0-42]</td>
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<td>[0-7], with SM-2000 [0-42]</td>
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<td>idcu</td>
<td>ILEN</td>
<td>[0-7], with SM-2000 [0-42]</td>
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<td>idcu</td>
<td>MEN</td>
<td>[0-7], with SM-2000 [0-42]</td>
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<td>idcu</td>
<td>IDCUTMC</td>
<td>[0-7], with SM-2000 [0-42]</td>
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### Integrated Services Line Unit (Version 2) (ISLU/ISLU2)

<table>
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<th>Valid Range(s)/Value(s)</th>
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<tbody>
<tr>
<td>islu/islu2</td>
<td>ISDN</td>
<td>0-7, with SM-2000 0-42</td>
</tr>
<tr>
<td>islu/islu2</td>
<td>ISLU</td>
<td>0-7, with SM-2000 0-42</td>
</tr>
<tr>
<td>islu/islu2</td>
<td>ISLUC</td>
<td>0-7, with SM-2000 0-42</td>
</tr>
<tr>
<td>islu/islu2</td>
<td>ISLU C</td>
<td>0-7, with SM-2000 0-42</td>
</tr>
<tr>
<td>islu/islu2</td>
<td>ISLU CD</td>
<td>0-7, with SM-2000 0-42</td>
</tr>
<tr>
<td>islu/islu2</td>
<td>ISLU HSC</td>
<td>0-7, with SM-2000 0-42</td>
</tr>
<tr>
<td>islu/islu2</td>
<td>ISLUBD</td>
<td>0-7, with SM-2000 0-42</td>
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<tr>
<td>islu</td>
<td>ISLUC</td>
<td>0-7</td>
</tr>
<tr>
<td>islu/islu2</td>
<td>ISLUC KT</td>
<td>0-7, with SM-2000 0-42</td>
</tr>
<tr>
<td>islu/islu2</td>
<td>ISLUG</td>
<td>0-7, with SM-2000 0-42</td>
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<td>islu/islu2</td>
<td>ISLUG C</td>
<td>0-7</td>
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<tr>
<td>islu</td>
<td>ISLU G</td>
<td>0-7</td>
</tr>
<tr>
<td>islu/islu2</td>
<td>ISLU Z</td>
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<td>islu/islu2</td>
<td>LCEN</td>
<td>0-7</td>
</tr>
<tr>
<td>islu/islu2</td>
<td>LCEN K</td>
<td>0-7</td>
</tr>
<tr>
<td>islu</td>
<td>LC</td>
<td>0-7</td>
</tr>
<tr>
<td>islu/islu2</td>
<td>LCKT</td>
<td>0-7</td>
</tr>
<tr>
<td>islu/islu2</td>
<td>LDSF</td>
<td>0-7</td>
</tr>
<tr>
<td>islu/islu2</td>
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### Integrated Services Test Facility (ISTF)

<table>
<thead>
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<tr>
<td>istf</td>
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### Inter-Working Gateway (IWG)

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<tr>
<td>iwg</td>
<td>IWGFAC</td>
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### Inter-Working Unit (IWU)

<table>
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<tr>
<td>iwu</td>
<td>IWU</td>
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</tr>
<tr>
<td>iwg</td>
<td>IWUFAC</td>
<td>1-5</td>
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</table>

IWG  (Refer to: Inter-Working Gateway)
IWGFAC (Refer to: Inter-Working Gateway)
IWU  (Refer to: Inter-Working Unit)
IWUFAC (Refer to: Inter-Working Unit)
LBD  (Refer to: Line Board)
LC   (Refer to: Line Card)
LC   (Refer to: Line Circuit)
LCKT (Refer to: Line Circuit)
LDSF (Refer to: Local Digital Service Function)
LDSU (Refer to: Local Digital Service Unit)
Level (LVL)

<table>
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<tr>
<td>level</td>
<td>CGN</td>
<td>0-3</td>
</tr>
<tr>
<td>level</td>
<td>CON</td>
<td>0-3</td>
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<tr>
<td>level</td>
<td>LEN</td>
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LG  (Refer to:  Line Group)

LGC  (Refer to:  Line Group Controller)

**Line**

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<tr>
<td>line</td>
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<td>[1-2048]</td>
</tr>
<tr>
<td>line</td>
<td>INEN</td>
<td>[1-2048]</td>
</tr>
<tr>
<td>line</td>
<td>GEN</td>
<td>[1-2048]</td>
</tr>
<tr>
<td>line</td>
<td>MEN</td>
<td>[1-99]</td>
</tr>
<tr>
<td>line</td>
<td>SLEN</td>
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**Line Board (LB)**

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<tr>
<td>lbd</td>
<td>ISLULBD</td>
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<tr>
<td>lbd</td>
<td>ISLULCKT</td>
<td>[0-7]</td>
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<tr>
<td>ldbh</td>
<td>LCKEN</td>
<td>[0-7]</td>
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**Line Card (LC)**

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<tr>
<td>lc</td>
<td>ISLULC</td>
<td>[0-31]</td>
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<tr>
<td>lc</td>
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**Line Circuit (LC)**

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<tr>
<td>lc</td>
<td>AIULC-P</td>
<td>[0-23]</td>
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<tr>
<td>lc</td>
<td>AIULC-T</td>
<td>[0-31]</td>
</tr>
<tr>
<td>lc</td>
<td>AIULC-U</td>
<td>[0-31]</td>
</tr>
<tr>
<td>lc</td>
<td>AIULC-Z</td>
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**Line Circuit (LCKT)**

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<tr>
<td>lckt</td>
<td>ISLULCKT</td>
<td>[0-7]</td>
</tr>
<tr>
<td>lckt</td>
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<td>[0-7]</td>
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**Line Group (LG)**

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<tbody>
<tr>
<td>lg</td>
<td>ISLULCKT</td>
<td>[0-15]</td>
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<tr>
<td>lg</td>
<td>ISLULG</td>
<td>[0-15]</td>
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<tr>
<td>lg</td>
<td>ISLU-Z</td>
<td>[0-15]</td>
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<tr>
<td>lg</td>
<td>LCEN</td>
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**Line Group Controller (LGC)**

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<td>lgc</td>
<td>ISLULGC</td>
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**Line Pack (LP)**

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<tr>
<td>lp</td>
<td>AIULC-P</td>
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<tr>
<td>lp</td>
<td>AIULC-T</td>
<td>[0-19]</td>
</tr>
<tr>
<td>lp</td>
<td>AIULC-U</td>
<td>[0-19]</td>
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<tr>
<td>lp</td>
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<td>[0-19]</td>
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<tbody>
<tr>
<td>lu ALINK</td>
<td>0-7, with SM-2000</td>
<td>0-42</td>
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<tr>
<td>lu GDXACC</td>
<td>0-7, with SM-2000</td>
<td>0-42</td>
</tr>
<tr>
<td>lu GDXCON</td>
<td>0-7, with SM-2000</td>
<td>0-42</td>
</tr>
<tr>
<td>lu GRID</td>
<td>0-7, with SM-2000</td>
<td>0-42</td>
</tr>
<tr>
<td>lu GRIDBD</td>
<td>0-7, with SM-2000</td>
<td>0-42</td>
</tr>
<tr>
<td>lu LEN</td>
<td>0-7, with SM-2000</td>
<td>0-42</td>
</tr>
<tr>
<td>lu LUCHAN</td>
<td>0-7, with SM-2000</td>
<td>0-42</td>
</tr>
<tr>
<td>lu LUCHBD</td>
<td>0-7, with SM-2000</td>
<td>0-42</td>
</tr>
<tr>
<td>lu LUCOMC</td>
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</tr>
<tr>
<td>lu LUHLSC</td>
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### Link

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<tr>
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<tr>
<td>link LS</td>
<td>1-511</td>
<td></td>
</tr>
<tr>
<td>link LS (PSU SS7)</td>
<td>1-255</td>
<td></td>
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<tr>
<td>link XDB</td>
<td>0-4095</td>
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<td>link PSALNK</td>
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### Local Digital Service Function (LDSF)

<table>
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<tr>
<th>Unit/Equipment</th>
<th>When Used With</th>
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<tbody>
<tr>
<td>ldsf LDSF</td>
<td>0-5</td>
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### Local Digital Service Unit (LDSU)

<table>
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<tbody>
<tr>
<td>ldsu LDSU</td>
<td>0</td>
<td></td>
</tr>
<tr>
<td>ldsu LDSUCOM</td>
<td>0</td>
<td></td>
</tr>
<tr>
<td>ldsu RVPT</td>
<td>0</td>
<td></td>
</tr>
<tr>
<td>ldsu UTD</td>
<td>0</td>
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<tr>
<td>ldsu UTG</td>
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LP (Refer to: Line Pack)

LU (Refer to: Line Unit)

LVL (Refer to: Level)

MAB (Refer to: Metallic Access Board)

MAN (Refer to: Metallic Access Network)

MCTSI-based Ethernet Link (MELNK)

<table>
<thead>
<tr>
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<th>When Used With</th>
<th>Valid Range(s)/Value(s)</th>
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<tbody>
<tr>
<td>melnk MELNK</td>
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MCTSI-based Ethernet Pipe (MEPIPE)

<table>
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<tbody>
<tr>
<td>mepipe MEPIPE/MELINK</td>
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MELNK (Refer to: MCTSI-based Ethernet Link)
### Member

<table>
<thead>
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<th>Unit/Equipment</th>
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<tbody>
<tr>
<td>member AM</td>
<td></td>
<td>1-6</td>
</tr>
<tr>
<td>member AP</td>
<td></td>
<td>1-99</td>
</tr>
<tr>
<td>member AQ</td>
<td></td>
<td>0-15</td>
</tr>
<tr>
<td>member AQM</td>
<td></td>
<td>0-15</td>
</tr>
<tr>
<td>member BGMN</td>
<td></td>
<td>0-65535</td>
</tr>
<tr>
<td>member CU</td>
<td></td>
<td>0-1</td>
</tr>
<tr>
<td>member DASC</td>
<td></td>
<td>1-99</td>
</tr>
<tr>
<td>member DCI</td>
<td></td>
<td>1-255</td>
</tr>
<tr>
<td>member DFC</td>
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<td>0-255</td>
</tr>
<tr>
<td>member DLN</td>
<td></td>
<td>2 for CNI only</td>
</tr>
<tr>
<td>member DPC</td>
<td></td>
<td>0-255</td>
</tr>
<tr>
<td>member DPOCID</td>
<td></td>
<td>0-255</td>
</tr>
<tr>
<td>member DSLGM</td>
<td></td>
<td>0-127</td>
</tr>
<tr>
<td>member EIS</td>
<td></td>
<td>0-999</td>
</tr>
<tr>
<td>member HOBICR</td>
<td></td>
<td>1-99</td>
</tr>
<tr>
<td>member HOBICV</td>
<td></td>
<td>1-99</td>
</tr>
<tr>
<td>member HOBIS</td>
<td></td>
<td>1-99</td>
</tr>
<tr>
<td>member LINK</td>
<td></td>
<td>1-6 if group=[0,32]</td>
</tr>
<tr>
<td>member LINK</td>
<td></td>
<td>1-8 if group=[1,2,33,34]</td>
</tr>
<tr>
<td>member LN</td>
<td></td>
<td>1-6 if group=[0,32]</td>
</tr>
<tr>
<td>member LN</td>
<td></td>
<td>1-8 if group=[1,2,33,34]</td>
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<td>member LNKST</td>
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<td>1-6 if group=[0,32]</td>
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<tr>
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<td></td>
<td>1-8 if group=[1,2,33,34]</td>
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<tr>
<td>member LNKKR</td>
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<td>1-6 if group=[0,32]</td>
</tr>
<tr>
<td>member LNKKR</td>
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<td>1-8 if group=[1,2,33,34]</td>
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<tr>
<td>member LS</td>
<td></td>
<td>1-7</td>
</tr>
<tr>
<td>member LS</td>
<td></td>
<td>1-15 [5E14+]</td>
</tr>
<tr>
<td>member MISLNK</td>
<td></td>
<td>0-3</td>
</tr>
<tr>
<td>member MLHG</td>
<td></td>
<td>1-4000</td>
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<tr>
<td>member NODE</td>
<td></td>
<td>6 if group=[0,32]</td>
</tr>
<tr>
<td>member NODE</td>
<td></td>
<td>8 if group=[1,2,33,34]</td>
</tr>
<tr>
<td>member PSLT</td>
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<td>1-6 if group=[0,32]</td>
</tr>
<tr>
<td>member PSLT</td>
<td></td>
<td>1-8 if group=[1,2,33,34]</td>
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<tr>
<td>member RAS</td>
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<td>1-99</td>
</tr>
<tr>
<td>member RPCN</td>
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<td>0</td>
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<tr>
<td>member RTRS</td>
<td></td>
<td>1-99</td>
</tr>
<tr>
<td>member RUTIL</td>
<td></td>
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<td>member RUTIL</td>
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<td>1-6 if group=[1,2,33,34]</td>
</tr>
<tr>
<td>member RUTILFLAG</td>
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<td>0-6 if group=[0,32]</td>
</tr>
<tr>
<td>member RUTILFLAG</td>
<td></td>
<td>1-8 if group=[1,2,33,34]</td>
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<tr>
<td>member SCSG</td>
<td></td>
<td>0-16</td>
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<tr>
<td>member SLK</td>
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<td>1-6 if group=[0,32]</td>
</tr>
<tr>
<td>member SLK</td>
<td></td>
<td>1-8 if group=[1,2,33,34]</td>
</tr>
<tr>
<td>member TKGMN</td>
<td></td>
<td>0-1951, for BICC[0-65535]</td>
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### MEPipe (Refer to: MCTSI-based Ethernet Pipe)

### Message Handler (MH)

<table>
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<tbody>
<tr>
<td>mh MCTSI</td>
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<td>0-2</td>
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### Message Switch (MSGS)

<table>
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<tbody>
<tr>
<td>msgs MSGS</td>
<td></td>
<td>0-1</td>
</tr>
<tr>
<td>msgs CLNK</td>
<td></td>
<td>0-1</td>
</tr>
<tr>
<td>msgs CMP</td>
<td></td>
<td>0-1</td>
</tr>
<tr>
<td>msgs FPC</td>
<td></td>
<td>0-1</td>
</tr>
<tr>
<td>msgs MMP</td>
<td></td>
<td>0-1</td>
</tr>
<tr>
<td>msgs MSCU</td>
<td></td>
<td>0-1</td>
</tr>
<tr>
<td>msgs PPC</td>
<td></td>
<td>0-1</td>
</tr>
<tr>
<td>msgs QGL</td>
<td></td>
<td>0-1</td>
</tr>
<tr>
<td>msgs QGP</td>
<td></td>
<td>0-1</td>
</tr>
<tr>
<td>Unit/Equipment</td>
<td>When Used With</td>
<td>Valid Range(s)/Value(s)</td>
</tr>
<tr>
<td>---------------------</td>
<td>----------------</td>
<td>-------------------------</td>
</tr>
<tr>
<td>msu</td>
<td>MSCU</td>
<td>[0-1]</td>
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</table>

Metallic Access Board (MAB)

<table>
<thead>
<tr>
<th>Unit/Equipment</th>
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<tbody>
<tr>
<td>mab</td>
<td>MAB</td>
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</table>

Metallic Access Network (MAN)

<table>
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<tbody>
<tr>
<td>man</td>
<td>ISLUMAN</td>
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Metallic Service Unit (MSU)

<table>
<thead>
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<th>Unit/Equipment</th>
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<th>Valid Range(s)/Value(s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>msu</td>
<td>ALIT</td>
<td>[0-1]</td>
</tr>
<tr>
<td>msu</td>
<td>DFTAC</td>
<td>[0-1]</td>
</tr>
<tr>
<td>msu</td>
<td>DIST</td>
<td>[0-1]</td>
</tr>
<tr>
<td>msu</td>
<td>GDXC</td>
<td>[0-1]</td>
</tr>
<tr>
<td>msu</td>
<td>MA</td>
<td>[0-1]</td>
</tr>
<tr>
<td>msu</td>
<td>MAB</td>
<td>[0-1]</td>
</tr>
<tr>
<td>msu</td>
<td>MSUCOM</td>
<td>[0-1]</td>
</tr>
<tr>
<td>msu</td>
<td>MTIBAX</td>
<td>[0-1]</td>
</tr>
<tr>
<td>msu</td>
<td>PROTO</td>
<td>[0-1]</td>
</tr>
<tr>
<td>msu</td>
<td>SCAN</td>
<td>[0-1]</td>
</tr>
<tr>
<td>msu</td>
<td>SLIM</td>
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Metallic Test Bus (MTB)

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<tbody>
<tr>
<td>mtb</td>
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Metallic Test Interconnect Bus (MTIB)

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<tr>
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Metallic Test Interface Bus Access (MTIBAX)

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<th>Valid Range(s)/Value(s)</th>
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<tr>
<td>mtibax</td>
<td>MTIBAX</td>
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MLHG (Refer to: Multi-Line Hunt Group)

Module Message Processor (MMP)

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<th>Valid Range(s)/Value(s)</th>
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</thead>
<tbody>
<tr>
<td>mmp</td>
<td>MMP</td>
<td>[0-47] for CM2</td>
</tr>
<tr>
<td></td>
<td></td>
<td>[0-1] for CM3</td>
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</table>

MSCU (Refer to: Message Switch Control Unit)

MSGS (Refer to: Message Switch)

MSU (Refer to: Metallic Service Unit)

MTB (Refer to: Metallic Test Bus)

MTIB (Refer to: Metallic Test Interconnect Bus)

MTIBAX (Refer to: Metallic Test Interface Bus Access)
Multi-Line Hunt Group (MLHG)

<table>
<thead>
<tr>
<th>Unit/Equipment</th>
<th>When Used With</th>
<th>Valid Range(s)/Value(s)</th>
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<tbody>
<tr>
<td>mfhg</td>
<td>DN</td>
<td>[1-8191]</td>
</tr>
<tr>
<td>mfhg</td>
<td>MLHG</td>
<td>[1-8191]</td>
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<tr>
<td>mfhg</td>
<td>PKDN</td>
<td>[1-8191]</td>
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Name

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<tr>
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Network

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<tr>
<td>network</td>
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Network Clock Oscillator (NCOSC)

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Network Clock Reference (NCREF)

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<tr>
<td>ncref</td>
<td>XC</td>
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Network Cluster

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<tbody>
<tr>
<td>network cluster</td>
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Network Indicator (NID)

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<tbody>
<tr>
<td>nid</td>
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Network Link Interface (NLI)

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Number

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<tr>
<td>number</td>
<td>LPORT</td>
<td>[0-32766]</td>
</tr>
<tr>
<td>number</td>
<td>PSUPH</td>
<td>[0-15]</td>
</tr>
<tr>
<td>number</td>
<td>XDFF</td>
<td>[1-8]</td>
</tr>
<tr>
<td>number</td>
<td>XDPO</td>
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OC3 (Refer to: Optical Carrier Level 3)

OC3C (Refer to: Optical Carrier Level 3 Concatenated)

OCL (Refer to: Operator Communications Link)

Office Network Timing Complex (ONTC)

<table>
<thead>
<tr>
<th>Unit/Equipment</th>
<th>When Used With</th>
<th>Valid Range(s)/Value(s)</th>
</tr>
</thead>
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<tr>
<td>ontc</td>
<td>DLI</td>
<td>[0-1]</td>
</tr>
<tr>
<td>ontc</td>
<td>NCOSC</td>
<td>[0-1]</td>
</tr>
<tr>
<td>ontc</td>
<td>NLI</td>
<td>[0-1]</td>
</tr>
<tr>
<td>ontc</td>
<td>ONTC</td>
<td>[0-1]</td>
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### Office Network Timing Common Units (ONTCCOM)

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<tr>
<td>ontc ONTCCOM</td>
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<td>[0-1]</td>
</tr>
<tr>
<td>ontc OSCXC</td>
<td></td>
<td>[0-1]</td>
</tr>
<tr>
<td>ontc PRIM</td>
<td></td>
<td>[0-1]</td>
</tr>
<tr>
<td>ontc QLPS</td>
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<td>[0-1]</td>
</tr>
<tr>
<td>ontc QTMSLNK</td>
<td></td>
<td>[0-1]</td>
</tr>
<tr>
<td>ontc SEC</td>
<td></td>
<td>[0-1]</td>
</tr>
<tr>
<td>ontc TMS</td>
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<td>[0-1]</td>
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<td>ontc TMSLNK</td>
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<td>[0-1]</td>
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### Operator Communications Link (OCL)

<table>
<thead>
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<th>Valid Range(s)/Value(s)</th>
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<tbody>
<tr>
<td>ocl LOOP</td>
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### Operator Services Center (OSC)

<table>
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<td>[1-32]</td>
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<tr>
<td>osc OPT</td>
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<td>[1-32]</td>
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### Optical Carrier Level 3 (OC3)

<table>
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<tr>
<td>oc3 OC3</td>
<td></td>
<td>[1]</td>
</tr>
<tr>
<td>oc3 STS1</td>
<td></td>
<td>[1]</td>
</tr>
<tr>
<td>oc3 VT15</td>
<td></td>
<td>[1]</td>
</tr>
<tr>
<td>oc3 DS1</td>
<td></td>
<td>[1]</td>
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<tr>
<td>oc3 OIUEN</td>
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</table>

### Optical Carrier Level 3 Concatenated (OC3C)

<table>
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<tbody>
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<td>[1]</td>
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<tr>
<td>oc3c STS3C</td>
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<td>[1]</td>
</tr>
<tr>
<td>oc3c PPPLK</td>
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<tr>
<td>oc3c OIUEN</td>
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### Optical Interface Unit (OIU)

<table>
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<th>When Used With</th>
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<tbody>
<tr>
<td>oui OFI</td>
<td></td>
<td>[0-7]</td>
</tr>
<tr>
<td>oui OC3</td>
<td></td>
<td>[0-7]</td>
</tr>
<tr>
<td>oui STS1</td>
<td></td>
<td>[0-7]</td>
</tr>
<tr>
<td>oui VT15</td>
<td></td>
<td>[0-7]</td>
</tr>
<tr>
<td>oui DS1</td>
<td></td>
<td>[0-7]</td>
</tr>
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</table>

### Oscillator Cross-coupler (OSCXC)

<table>
<thead>
<tr>
<th>Unit/Equipment</th>
<th>When Used With</th>
<th>Valid Range(s)/Value(s)</th>
</tr>
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<tbody>
<tr>
<td>oscxc OSCSC</td>
<td></td>
<td>[0-1]</td>
</tr>
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</table>

### Packet Switching Unit (PSU)

<table>
<thead>
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<th>Unit/Equipment</th>
<th>When Used With</th>
<th>Valid Range(s)/Value(s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>psu PSIUCOM</td>
<td></td>
<td>[0-1]</td>
</tr>
<tr>
<td>psu PSU</td>
<td></td>
<td>[0-1] [5E14-5E15]</td>
</tr>
<tr>
<td>psu PSUPIDB</td>
<td></td>
<td>[0-1] [5E14-5E15]</td>
</tr>
<tr>
<td>psu PSUCOM</td>
<td></td>
<td>[0-1] [5E14-5E15]</td>
</tr>
<tr>
<td>Unit/Equipment</td>
<td>When Used With</td>
<td>Valid Range(s)/Value(s)</td>
</tr>
<tr>
<td>----------------</td>
<td>----------------</td>
<td>------------------------</td>
</tr>
<tr>
<td>near psu ca</td>
<td>PSLNK</td>
<td>[1-254]</td>
</tr>
<tr>
<td>far psu ca</td>
<td>PSLNK</td>
<td>[0-254]</td>
</tr>
</tbody>
</table>

**Packet Switching Unit Community Address**

**Peripheral Control and Timing Facility Interface (PCTFI)**

<table>
<thead>
<tr>
<th>Unit/Equipment</th>
<th>When Used With</th>
<th>Valid Range(s)/Value(s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>pctfi</td>
<td>PLTLK</td>
<td>[0-2] (5E15^+)</td>
</tr>
<tr>
<td>pctfi</td>
<td>TRIB</td>
<td>[0-2] (5E15^+)</td>
</tr>
<tr>
<td>pctfi</td>
<td>PLTEN</td>
<td>[0-2] (5E15^+)</td>
</tr>
</tbody>
</table>

**Peripheral Control and Timing Facility Interface (PCTFI) Link Side**

<table>
<thead>
<tr>
<th>Unit/Equipment</th>
<th>When Used With</th>
<th>Valid Range(s)/Value(s)</th>
</tr>
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<tbody>
<tr>
<td>PCT link</td>
<td>PLTLK</td>
<td>[0-1] (5E15^+)</td>
</tr>
<tr>
<td>PCT link</td>
<td>TRIB</td>
<td>[0-1] (5E15^+)</td>
</tr>
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</table>

**Peripheral Control and Timing Link Tributary (TRIB)**

<table>
<thead>
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<th>When Used With</th>
<th>Valid Range(s)/Value(s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>trib</td>
<td>PLTLK</td>
<td>[1-28] (5E15^+)</td>
</tr>
<tr>
<td>trib</td>
<td>TRIB</td>
<td>[1-28] (5E15^+)</td>
</tr>
<tr>
<td>trib</td>
<td>PLTEN</td>
<td>[1-28] (5E15^+)</td>
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</table>

**PCT Line and Trunk Unit (PLTU)**

<table>
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</thead>
<tbody>
<tr>
<td>pltu</td>
<td>PLTLK</td>
<td>[0-35] (5E15^+)</td>
</tr>
<tr>
<td>pltu</td>
<td>TRIB</td>
<td>[0-35] (5E15^+)</td>
</tr>
<tr>
<td>pltu</td>
<td>PLTEN</td>
<td>[0-35] (5E15^+)</td>
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</table>

**Peripheral Interface Data Bus (PIDB)**

<table>
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<th>Valid Range(s)/Value(s)</th>
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<tbody>
<tr>
<td>pidb</td>
<td>IDCUPIDB</td>
<td>[1-22]</td>
</tr>
<tr>
<td>pidb</td>
<td>SLUPIDB</td>
<td>[0-11]</td>
</tr>
<tr>
<td>pidb</td>
<td>PSUPIDB</td>
<td>[1-3]</td>
</tr>
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PFID (Refer to: Private Facility ID)

PH (Refer to: Protocol Handler)

PIDB (Refer to: Peripheral Interface Data Bus)

PMU (Refer to: Precision Measurement Unit)

Port

<table>
<thead>
<tr>
<th>Unit/Equipment</th>
<th>When Used With</th>
<th>Valid Range(s)/Value(s)</th>
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</thead>
<tbody>
<tr>
<td>port</td>
<td>DCTUPORT</td>
<td>[0-11]</td>
</tr>
<tr>
<td>port</td>
<td>LTP</td>
<td>[0-255]</td>
</tr>
<tr>
<td>port</td>
<td>RAF</td>
<td>[0-31]</td>
</tr>
<tr>
<td>port</td>
<td>SAS</td>
<td>[0-31]</td>
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</table>
PPP (Refer to: Pump Peripheral Controller)

Precision Measurement Unit (PMU)

<table>
<thead>
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<tbody>
<tr>
<td>pmu</td>
<td>PMU</td>
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Primary Rate Interface Group (PRIGRP)

<table>
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<th>When Used With</th>
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<tbody>
<tr>
<td>prigrp</td>
<td>PRIGRP</td>
<td>[1-4095]</td>
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Private Facility ID (PFID)

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<td>pfid</td>
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Processor Group

<table>
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<tr>
<td>processor group</td>
<td>PCRGPRP</td>
<td>[1-24] (5E16(2)+)</td>
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Protection Group (PG)

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<th>Unit/Equipment</th>
<th>When Used With</th>
<th>Valid Range(s)/Value(s)</th>
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</thead>
<tbody>
<tr>
<td>pg</td>
<td>OFI</td>
<td>0-9</td>
</tr>
<tr>
<td>pg</td>
<td>OC3</td>
<td>0-9</td>
</tr>
<tr>
<td>pg</td>
<td>STS1</td>
<td>0-9</td>
</tr>
<tr>
<td>pg</td>
<td>VT15</td>
<td>0-9</td>
</tr>
<tr>
<td>pg</td>
<td>DS1</td>
<td>0-9</td>
</tr>
<tr>
<td>pg</td>
<td>QIUEN</td>
<td>0-9</td>
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</table>

Protocol Handler (PH)

<table>
<thead>
<tr>
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<th>When Used With</th>
<th>Valid Range(s)/Value(s)</th>
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<tbody>
<tr>
<td>ph</td>
<td>PSIUPH</td>
<td>[0-15]</td>
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</table>

PSU (Refer to: Packet Switching Unit)

Pump Peripheral Controller (PPC)

<table>
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<th>When Used With</th>
<th>Valid Range(s)/Value(s)</th>
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<tr>
<td>ppc</td>
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QGL (Refer to: QLPS Gateway Link)

QGP (Refer to: QLPS Gateway Processor)

QLPS (Refer to: Quad-link Packet Switch)

QLPS Gateway Link (QGL)

<table>
<thead>
<tr>
<th>Unit/Equipment</th>
<th>When Used With</th>
<th>Valid Range(s)/Value(s)</th>
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<tbody>
<tr>
<td>qgl</td>
<td>QGL</td>
<td>[0-3]</td>
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</table>

QLPS Gateway Processor (QGP)

<table>
<thead>
<tr>
<th>Unit/Equipment</th>
<th>When Used With</th>
<th>Valid Range(s)/Value(s)</th>
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</thead>
<tbody>
<tr>
<td>qgp</td>
<td>QGP</td>
<td>[0-1] for CM2</td>
</tr>
<tr>
<td></td>
<td></td>
<td>[0] for CM3</td>
</tr>
</tbody>
</table>

QLPS Time Multiplexed Switch Link (QTMSLNK)
Unit/Equipment | When Used With | Valid Range(s)/Value(s)
---|---|---
qtmslnk | QTMSLNK | [0-3]

QTMSLNK (Refer to: QLPS Time Multiplexed Switch Link)

Quad-link Packet Switch (QLPS)

Unit/Equipment | When Used With | Valid Range(s)/Value(s)
---|---|---
qlps | QLPS | [0-1]

Radio Port Controller Unit (RPCU)

Unit/Equipment | When Used With | Valid Range(s)/Value(s)
---|---|---
rpcu | RPCU | [1-1023]

RAF (Refer to: Recorded Announcement Function|Facility)

RCLK (Refer to: Remote Clock)

RCREF (Refer to: Remote Clock Reference)

Receive Unit (RU)

Unit/Equipment | When Used With | Valid Range(s)/Value(s)
---|---|---
ru | RAF | [0-7]

Recorded Announcement Facility|Function (RAF)

Unit/Equipment | When Used With | Valid Range(s)/Value(s)
---|---|---
raf | RAF | [0-7]

Region

Unit/Equipment | When Used With | Valid Range(s)/Value(s)
---|---|---
region | DPC | [0-31]

Relative Position (RP)

Unit/Equipment | When Used With | Valid Range(s)/Value(s)
---|---|---
rp | BST | [1-4095]

Remote Clock (RCLK)

Unit/Equipment | When Used With | Valid Range(s)/Value(s)
---|---|---
rclk | RCLK | [0-1]

Remote Clock Reference (RCREF)

Unit/Equipment | When Used With | Valid Range(s)/Value(s)
---|---|---
rcref | RCREF | [1-8]

Remote ISLU (RISLU)

Unit/Equipment | When Used With | Valid Range(s)/Value(s)
---|---|---
rislu | RRCLK | [0-7]

Remote Link Interface (RLI)

Unit/Equipment | When Used With | Valid Range(s)/Value(s)
---|---|---
rl | RLI | [0-1]

Remote Switching Module (RSM)
<table>
<thead>
<tr>
<th>Unit/Equipment</th>
<th>When Used With</th>
<th>Valid Range(s)/Value(s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>rsm UMBIL</td>
<td></td>
<td>[1-192]</td>
</tr>
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</table>

Remote Terminal (RT)

<table>
<thead>
<tr>
<th>Unit/Equipment</th>
<th>When Used With</th>
<th>Valid Range(s)/Value(s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>rt DNUSEOC</td>
<td></td>
<td>[1-31]</td>
</tr>
<tr>
<td>rt DNUSTMC</td>
<td></td>
<td>[1-31]</td>
</tr>
<tr>
<td>rt IDCUEOC</td>
<td></td>
<td>[1-31]</td>
</tr>
<tr>
<td>rt IDCUTMC</td>
<td></td>
<td>[1-31]</td>
</tr>
<tr>
<td>rt GEN</td>
<td></td>
<td>[1-31]</td>
</tr>
<tr>
<td>rt ILEN</td>
<td></td>
<td>[1-31]</td>
</tr>
<tr>
<td>rt INEN</td>
<td></td>
<td>[1-99]</td>
</tr>
<tr>
<td>rt SLEN</td>
<td></td>
<td>[1-6]</td>
</tr>
</tbody>
</table>

Return to Point of Interrupt (RPI)

<table>
<thead>
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<th>Unit/Equipment</th>
<th>When Used With</th>
<th>Valid Range(s)/Value(s)</th>
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</thead>
<tbody>
<tr>
<td>rpi RPI</td>
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<td>[0-255]</td>
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Ring Generator (RG)

<table>
<thead>
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<th>When Used With</th>
<th>Valid Range(s)/Value(s)</th>
</tr>
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<tbody>
<tr>
<td>rg AIURG</td>
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<td>[0-1]</td>
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</table>

RISLU (Refer to: Remote ISLU)
RLI (Refer to: Remote Link Interface)
RP (Refer to: Relative Position)
RPI (Refer to: Return to Point of Interrupt)
RSM (Refer to: Remote Switching Module)
RT (Refer to: Remote Terminal)
RU (Refer to: Receive Unit)

SA

<table>
<thead>
<tr>
<th>Unit/Equipment</th>
<th>When Used With</th>
<th>Valid Range(s)/Value(s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>sa SA</td>
<td></td>
<td>[0-15]</td>
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SAS (Refer to: Service Announcement System)

SCCP Routing Verification Test (SRVT)

<table>
<thead>
<tr>
<th>Unit/Equipment</th>
<th>When Used With</th>
<th>Valid Range(s)/Value(s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>srvt SRVT</td>
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<td>[8-16]</td>
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SCCP Subsystem Number (SSN)

<table>
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<th>When Used With</th>
<th>Valid Range(s)/Value(s)</th>
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</thead>
<tbody>
<tr>
<td>sccpp SCCP</td>
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<td>[0-255]</td>
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SDFI (Refer to: SLCD® 96 Digital Facilities Interface)

Service Announcement System (SAS)

<table>
<thead>
<tr>
<th>Unit/Equipment</th>
<th>When Used With</th>
<th>Valid Range(s)/Value(s)</th>
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<tbody>
<tr>
<td>sas SAS</td>
<td></td>
<td>[0-7]</td>
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</table>
Service Group (SG)

<table>
<thead>
<tr>
<th>Unit/Equipment</th>
<th>When Used With</th>
<th>Valid Range(s)/Value(s)</th>
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<tbody>
<tr>
<td>sg</td>
<td>all</td>
<td>[0-1]</td>
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SFI (Refer to: Synchronous Transport Signal Facility Interface)

SG (Refer to: Service Group)

Shelf

<table>
<thead>
<tr>
<th>Unit/Equipment</th>
<th>When Used With</th>
<th>Valid Range(s)/Value(s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>shelf</td>
<td>PF</td>
<td>with SM-2000 only [0-4]</td>
</tr>
<tr>
<td>shelf</td>
<td>PSUEN</td>
<td>[0-4]</td>
</tr>
<tr>
<td>shelf</td>
<td>PSUPH</td>
<td>[0-5]</td>
</tr>
<tr>
<td>shelf</td>
<td>PSUPIDB</td>
<td>[0-5]</td>
</tr>
<tr>
<td>shelf</td>
<td>UEN</td>
<td>[0-4]</td>
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SID (Refer to: Site ID)

Side

<table>
<thead>
<tr>
<th>Unit/Equipment</th>
<th>When Used With</th>
<th>Valid Range(s)/Value(s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>side</td>
<td>OC3</td>
<td>[0-1]</td>
</tr>
<tr>
<td>side</td>
<td>OCC3</td>
<td>[0-1]</td>
</tr>
<tr>
<td>side</td>
<td>OFI</td>
<td>[0-1]</td>
</tr>
<tr>
<td>side</td>
<td>PSUCOM</td>
<td>with SM-2000 only [0-1]</td>
</tr>
<tr>
<td>side</td>
<td>RCOSC</td>
<td>[0-1]</td>
</tr>
<tr>
<td>side</td>
<td>RCXOC</td>
<td>[0-1]</td>
</tr>
<tr>
<td>side</td>
<td>RCREF</td>
<td>[0-1]</td>
</tr>
<tr>
<td>side</td>
<td>RCXC</td>
<td>[0-1]</td>
</tr>
</tbody>
</table>

Signaling Transfer Point (STP)

<table>
<thead>
<tr>
<th>Unit/Equipment</th>
<th>When Used With</th>
<th>Valid Range(s)/Value(s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>stp</td>
<td>STP</td>
<td>[1-15]</td>
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</table>

Site ID (SID)

<table>
<thead>
<tr>
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<th>When Used With</th>
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<tbody>
<tr>
<td>sid</td>
<td>EOC</td>
<td>[1-9999]</td>
</tr>
<tr>
<td>sid</td>
<td>FAC</td>
<td>[1-9999]</td>
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<tr>
<td>sid</td>
<td>TMC</td>
<td>[1-9999]</td>
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SLC® 96 Digital Facilities Interface (SDFI)

<table>
<thead>
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<th>Unit/Equipment</th>
<th>When Used With</th>
<th>Valid Range(s)/Value(s)</th>
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<tr>
<td>sdfi</td>
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<td>[0-29]</td>
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Slot

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<tr>
<td>slot</td>
<td>PSIUPH</td>
<td>[0-31]</td>
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SM (Refer to: Switching Module)

SRVT (Refer to: SCCP Routing Verification Test)

SSN (Refer to: SCCP Subsystem Number)

STE (Refer to: Synchronous Optical Network Terminating Equipment)

STS (Refer to: Synchronous Transport Signal)
STS1  (Refer to: Synchronous Transport Signal Level 1)

STS3C  (Refer to: Synchronous Transport Signal Level 3 Concatenated)

Switch (SW)

<table>
<thead>
<tr>
<th>Unit/Equipment</th>
<th>When Used With</th>
<th>Valid Range(s)/Value(s)</th>
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<tbody>
<tr>
<td>sw</td>
<td>LEN</td>
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Switch Group (SWG)

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<th>When Used With</th>
<th>Valid Range(s)/Value(s)</th>
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<tr>
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<td>LEN</td>
<td>[0-1]</td>
</tr>
<tr>
<td>swg</td>
<td>TEN</td>
<td>[0-1]</td>
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</table>

Switching Module (SM)

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<tbody>
<tr>
<td>sm</td>
<td>all</td>
<td>[1-192]</td>
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SWG  (Refer to: Switch Group)

Synchronous Optical Network Terminating Equipment (STE)

<table>
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<th>When Used With</th>
<th>Valid Range(s)/Value(s)</th>
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<tbody>
<tr>
<td>ste</td>
<td>EC1STE</td>
<td>[1-6]</td>
</tr>
<tr>
<td>ste</td>
<td>NEN</td>
<td>[1-6]</td>
</tr>
<tr>
<td>ste</td>
<td>STSFAC</td>
<td>[1-6]</td>
</tr>
<tr>
<td>ste</td>
<td>VT1FAC</td>
<td>[1-6]</td>
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</table>

Synchronous Transport Signal (STS)

<table>
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<th>Valid Range(s)/Value(s)</th>
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<tr>
<td>sts</td>
<td>DS1STSFAC</td>
<td>[1]</td>
</tr>
<tr>
<td>sts</td>
<td>EC1STE</td>
<td>[1]</td>
</tr>
<tr>
<td>sts</td>
<td>NEN</td>
<td>[1]</td>
</tr>
<tr>
<td>sts</td>
<td>STSFAC</td>
<td>[1]</td>
</tr>
<tr>
<td>sts</td>
<td>VT1FAC</td>
<td>[1]</td>
</tr>
</tbody>
</table>

Synchronous Transport Signal Facility Interface Indicator (SFI)

<table>
<thead>
<tr>
<th>Unit/Equipment</th>
<th>When Used With</th>
<th>Valid Range(s)/Value(s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>sfi</td>
<td>SFI</td>
<td>[0-1]</td>
</tr>
</tbody>
</table>

Synchronous Transport Signal Level 1 (STS1)

<table>
<thead>
<tr>
<th>Unit/Equipment</th>
<th>When Used With</th>
<th>Valid Range(s)/Value(s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>sts1</td>
<td>OIUEEN</td>
<td>[1-3]</td>
</tr>
<tr>
<td>sts1</td>
<td>STS1</td>
<td>[1-3]</td>
</tr>
<tr>
<td>sts1</td>
<td>VT15</td>
<td>[1-3]</td>
</tr>
<tr>
<td>sts1</td>
<td>DS1</td>
<td>[1-3]</td>
</tr>
</tbody>
</table>

Synchronous Transport Signal Level 3 Concatenated (OC3C)

<table>
<thead>
<tr>
<th>Unit/Equipment</th>
<th>When Used With</th>
<th>Valid Range(s)/Value(s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>oc3c</td>
<td>STS3C</td>
<td>[1]</td>
</tr>
<tr>
<td>oc3c</td>
<td>PPPLK</td>
<td>[1]</td>
</tr>
<tr>
<td>oc3</td>
<td>OIUEEN</td>
<td>[1]</td>
</tr>
</tbody>
</table>

Test Unit (TU)

<table>
<thead>
<tr>
<th>Unit/Equipment</th>
<th>When Used With</th>
<th>Valid Range(s)/Value(s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>tu</td>
<td>CDI</td>
<td>[0-7]</td>
</tr>
<tr>
<td>tu</td>
<td>TAC</td>
<td>[0-7]</td>
</tr>
</tbody>
</table>
TGID  (Refer to:  Trunk Group ID)

Time Multiplexed Switch Fabric Pair (TMSFP)

<table>
<thead>
<tr>
<th>Unit/Equipment</th>
<th>When Used With</th>
<th>Valid Range(s)/Value(s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>tmsfp</td>
<td>TMS</td>
<td>[0] for CM2 (5E16(2)+)</td>
</tr>
<tr>
<td></td>
<td></td>
<td>[0-3] for CM3 (5E16(2)+)</td>
</tr>
<tr>
<td>tmsfp</td>
<td>TMSFP</td>
<td>[0-3]</td>
</tr>
<tr>
<td>tmsfp</td>
<td>TMSLNK</td>
<td>[0] for CM2 (5E16(2)+)</td>
</tr>
<tr>
<td></td>
<td></td>
<td>[0-3] for CM3 (5E16(2)+)</td>
</tr>
</tbody>
</table>

Time Multiplexed Switch Link (TMSLNK)

<table>
<thead>
<tr>
<th>Unit/Equipment</th>
<th>When Used With</th>
<th>Valid Range(s)/Value(s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>tmslnk</td>
<td>TMSLNK</td>
<td>[2-511]</td>
</tr>
</tbody>
</table>

Timeslot Data Block (TSDB)

<table>
<thead>
<tr>
<th>Unit/Equipment</th>
<th>When Used With</th>
<th>Valid Range(s)/Value(s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>tsdb</td>
<td>TS</td>
<td>[0-12287]</td>
</tr>
</tbody>
</table>

Timeslot Group (TSGRP)

<table>
<thead>
<tr>
<th>Unit/Equipment</th>
<th>When Used With</th>
<th>Valid Range(s)/Value(s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>tsgp</td>
<td>AIUTSGRP</td>
<td>[0-5]</td>
</tr>
</tbody>
</table>

Timeslot Management Channel (TMC)

<table>
<thead>
<tr>
<th>Unit/Equipment</th>
<th>When Used With</th>
<th>Valid Range(s)/Value(s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>tmc</td>
<td>DNUSTMC</td>
<td>[0-1]</td>
</tr>
<tr>
<td>tmc</td>
<td>IDCUUTMC</td>
<td>[0-1]</td>
</tr>
</tbody>
</table>

TMSFP  (Refer to:  Time Multiplexed Switch Fabric Pair)

TMSLNK  (Refer to:  Time Multiplexed Switch Link)

TMUX  (Refer to:  Transmission Multiplexer)

Translation Signaling Point (TSP)

<table>
<thead>
<tr>
<th>Unit/Equipment</th>
<th>When Used With</th>
<th>Valid Range(s)/Value(s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>tsp</td>
<td>NTSP</td>
<td>[1-15]</td>
</tr>
</tbody>
</table>

Transmission Multiplexer (TMUX)

<table>
<thead>
<tr>
<th>Unit/Equipment</th>
<th>When Used With</th>
<th>Valid Range(s)/Value(s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>tmux</td>
<td>TMUX</td>
<td>[0-6]</td>
</tr>
</tbody>
</table>

Transmission Rate Converter Unit (TRCU)

<table>
<thead>
<tr>
<th>Unit/Equipment</th>
<th>When Used With</th>
<th>Valid Range(s)/Value(s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>trcu</td>
<td>TRCP</td>
<td>[0-23]</td>
</tr>
<tr>
<td>trcu3</td>
<td>TCTS</td>
<td>[2-255]</td>
</tr>
</tbody>
</table>

Trib  (5E15+)

<table>
<thead>
<tr>
<th>Unit/Equipment</th>
<th>When Used With</th>
<th>Valid Range(s)/Value(s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>trib</td>
<td>PLTEN</td>
<td>[1-28]</td>
</tr>
</tbody>
</table>

Trunk Group ID (TGID)
<table>
<thead>
<tr>
<th>Unit/Equipment</th>
<th>When Used With</th>
<th>Valid Range(s)/Value(s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>tgid</td>
<td>TGID</td>
<td>[0-9999]</td>
</tr>
</tbody>
</table>

Trunk Unit (TU)

<table>
<thead>
<tr>
<th>Unit/Equipment</th>
<th>When Used With</th>
<th>Valid Range(s)/Value(s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>tu</td>
<td>TEN</td>
<td>[0-7]</td>
</tr>
</tbody>
</table>

TSDB (Refer to: Timeslot Data Block)

TSGRP (Refer to: Timeslot Group)

TSP (Refer to: Translation Signaling Point)

TU (Refer to: Test Unit)

TU (Refer to: Trunk Unit)

Type

<table>
<thead>
<tr>
<th>Unit/Equipment</th>
<th>When Used With</th>
<th>Valid Range(s)/Value(s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>type</td>
<td>LPORT</td>
<td>[BFG,ISDN,OTHER,PRT]</td>
</tr>
<tr>
<td>type</td>
<td>TYPE</td>
<td>[0-254]</td>
</tr>
</tbody>
</table>

Umbilical (UMBIL)

<table>
<thead>
<tr>
<th>Unit/Equipment</th>
<th>When Used With</th>
<th>Valid Range(s)/Value(s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>umbil</td>
<td>UMBIL</td>
<td>[1-20]</td>
</tr>
</tbody>
</table>

Virtual Analog (VANA)

<table>
<thead>
<tr>
<th>Unit/Equipment</th>
<th>When Used With</th>
<th>Valid Range(s)/Value(s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>vana</td>
<td>VANA</td>
<td>[1-28800]</td>
</tr>
</tbody>
</table>

Virtual BRI (VBRI)

<table>
<thead>
<tr>
<th>Unit/Equipment</th>
<th>When Used With</th>
<th>Valid Range(s)/Value(s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>vbri</td>
<td>VBRI</td>
<td>[1-3840]</td>
</tr>
</tbody>
</table>

Virtual Channel Identifier (VCID)

<table>
<thead>
<tr>
<th>Unit/Equipment</th>
<th>When Used With</th>
<th>Valid Range(s)/Value(s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>vcid</td>
<td>PSALNK</td>
<td>[0-1023]</td>
</tr>
</tbody>
</table>

Virtual Tributary 1.5 Group (VTGRP)

<table>
<thead>
<tr>
<th>Unit/Equipment</th>
<th>When Used With</th>
<th>Valid Range(s)/Value(s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>vtgrp</td>
<td>DS1</td>
<td>[1-7]</td>
</tr>
<tr>
<td>vtgrp</td>
<td>DS1SFAC</td>
<td>[1-7]</td>
</tr>
<tr>
<td>vtgrp</td>
<td>NEN</td>
<td>[1-7]</td>
</tr>
<tr>
<td>vtgrp</td>
<td>VT15</td>
<td>[1-7]</td>
</tr>
<tr>
<td>vtgrp</td>
<td>VT1FAC</td>
<td>[1-7]</td>
</tr>
<tr>
<td>vtgrp</td>
<td>OIUEN</td>
<td>[1-7]</td>
</tr>
</tbody>
</table>

Virtual Tributary 1.5 Member (VTMEM)

<table>
<thead>
<tr>
<th>Unit/Equipment</th>
<th>When Used With</th>
<th>Valid Range(s)/Value(s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>vtmem</td>
<td>DS1</td>
<td>[1-4]</td>
</tr>
<tr>
<td>vtmem</td>
<td>DS1SFAC</td>
<td>[1-4]</td>
</tr>
<tr>
<td>vtmem</td>
<td>NEN</td>
<td>[1-4]</td>
</tr>
<tr>
<td>vtmem</td>
<td>VT15</td>
<td>[1-4]</td>
</tr>
<tr>
<td>vtmem</td>
<td>VT1FAC</td>
<td>[1-4]</td>
</tr>
<tr>
<td>vtmem</td>
<td>OIUEN</td>
<td>[1-4]</td>
</tr>
</tbody>
</table>
Virtual Trunk Facility (VTRK)

<table>
<thead>
<tr>
<th>Unit/Equipment</th>
<th>When Used With</th>
<th>Valid Range(s)/Value(s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>vtrk</td>
<td>VTRK</td>
<td>[1-1008]</td>
</tr>
</tbody>
</table>

Virtual Trunk Facility (VTRK)

<table>
<thead>
<tr>
<th>Unit/Equipment</th>
<th>When Used With</th>
<th>Valid Range(s)/Value(s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>vtrk</td>
<td>VTRK</td>
<td>[1-1008]</td>
</tr>
</tbody>
</table>

Virtual Trunk Channel (VTRK)

<table>
<thead>
<tr>
<th>Unit/Equipment</th>
<th>When Used With</th>
<th>Valid Range(s)/Value(s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>vtrk</td>
<td>VTRK</td>
<td>[1-24]</td>
</tr>
</tbody>
</table>

ZLC (Refer to: Analog Line Card)
### APPENDIX: SYSTEM RESPONSES

<table>
<thead>
<tr>
<th>Acknowledgement</th>
<th>Meaning</th>
</tr>
</thead>
<tbody>
<tr>
<td>IP</td>
<td>In progress. Request received and initiated. Further output will follow.</td>
</tr>
<tr>
<td>NA</td>
<td>No acknowledgment. Normally, the system acknowledges an input request within 5 to 10 seconds. If control of the message processing has been lost, NA is output to indicate an acknowledgment failure. Input message execution may or may not complete. Normal results will occur if the execution completes successfully. The NA response should only occur during abnormal circumstances such as overload conditions.</td>
</tr>
<tr>
<td>NG</td>
<td>No good. The message was received, but the request conflicts with the current system or equipment status; for example, an attempt was made to restore a unit that is being diagnosed.</td>
</tr>
<tr>
<td>NO</td>
<td>Feature not available. The requested action failed because the feature required to process the request is not present in the switch or the given module.</td>
</tr>
<tr>
<td>OK</td>
<td>Good. The message was received, the appropriate process was initiated, and work was completed.</td>
</tr>
<tr>
<td>PF</td>
<td>Printout follows. The request was received and will be acted upon. A printout will follow sometime later to explain in detail the results of the work initiated by the IM. This printout may be a termination report that may include the result of the work initiated by the IM.</td>
</tr>
<tr>
<td>RL</td>
<td>Retry later. Request cannot be executed now because resources are unavailable or the requested process is busy. The message may be entered again later.</td>
</tr>
<tr>
<td>?A</td>
<td>Action field or command code contains an error. It may mean that the command code was incorrectly typed or that a field delimiter was omitted.</td>
</tr>
<tr>
<td>?D</td>
<td>Data field or a block of parameters following the DATA parameter contains an error. It may mean that an item was incorrectly typed or improper data was entered, or that a keyword or execute symbol was omitted. The message should be checked in the Input Messages document.</td>
</tr>
<tr>
<td>?E</td>
<td>Error exists in the message but cannot be resolved to the proper field.</td>
</tr>
<tr>
<td>?T</td>
<td>Time-out has occurred on the channel. Input has not been received within the allotted time, and processing of the message has been aborted.</td>
</tr>
<tr>
<td>?V</td>
<td>Verb field or command code contains an error. It may mean that the command code was incorrectly typed or that a field delimiter was omitted.</td>
</tr>
<tr>
<td>?X</td>
<td>A request has been made to abort the current message or to interrupt the current output process.</td>
</tr>
</tbody>
</table>
1. TRANSMISSION TESTS

### Table 1  TYPES OF TRANSMISSION TESTS

<table>
<thead>
<tr>
<th>Test Type</th>
<th>Measurement</th>
<th>Optimum Level</th>
<th>Filter</th>
<th>Remarks</th>
</tr>
</thead>
<tbody>
<tr>
<td>100</td>
<td>Level</td>
<td>0dBm0</td>
<td>1004Hz</td>
<td>Near end</td>
</tr>
<tr>
<td></td>
<td>Noise</td>
<td></td>
<td>C-message</td>
<td></td>
</tr>
<tr>
<td>100RL</td>
<td>Level</td>
<td>0dBm0</td>
<td>1004Hz</td>
<td>Near end</td>
</tr>
<tr>
<td></td>
<td>Noise</td>
<td></td>
<td>C-message</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Echo return loss</td>
<td>Band-limited noise</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Singing return loss (low frequency)</td>
<td>Band-limited noise</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Singing return loss (high frequency)</td>
<td>Band-limited noise</td>
<td></td>
<td></td>
</tr>
<tr>
<td>100ERL</td>
<td>Level</td>
<td>0dBm0</td>
<td>1004Hz</td>
<td>Near end</td>
</tr>
<tr>
<td></td>
<td>Noise</td>
<td></td>
<td>C-message</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Echo return loss</td>
<td>Band-limited noise</td>
<td></td>
<td></td>
</tr>
<tr>
<td>100SRL</td>
<td>Level</td>
<td>0dBm0</td>
<td>1004Hz</td>
<td>Near end</td>
</tr>
<tr>
<td></td>
<td>Noise</td>
<td></td>
<td>C-message</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Singing return loss (low frequency)</td>
<td>Band-limited noise</td>
<td></td>
<td></td>
</tr>
<tr>
<td>100SHI</td>
<td>Level</td>
<td>0dBm0</td>
<td>1004Hz</td>
<td>Near end</td>
</tr>
<tr>
<td></td>
<td>Noise</td>
<td></td>
<td>C-message</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Singing return loss (high frequency)</td>
<td>Band-limited noise</td>
<td></td>
<td></td>
</tr>
<tr>
<td>102LB</td>
<td>Level</td>
<td>0dBm0</td>
<td>1004Hz</td>
<td>Near end</td>
</tr>
<tr>
<td></td>
<td>Noise</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>102</td>
<td>Level</td>
<td>0dBm</td>
<td>1004Hz</td>
<td>Both ends</td>
</tr>
<tr>
<td></td>
<td>Noise</td>
<td></td>
<td>C-message</td>
<td></td>
</tr>
<tr>
<td>105ALL</td>
<td>--</td>
<td>--</td>
<td></td>
<td>All 105 and CSTS not run</td>
</tr>
<tr>
<td>105L</td>
<td>Level</td>
<td>0dBm0</td>
<td>1004Hz</td>
<td>Both ends</td>
</tr>
<tr>
<td>105RN</td>
<td>Noise</td>
<td></td>
<td>C-message</td>
<td>Near end</td>
</tr>
<tr>
<td>105N</td>
<td>Noise</td>
<td></td>
<td>C-message</td>
<td>Far end</td>
</tr>
<tr>
<td>105L4</td>
<td>Level</td>
<td>-16dBm0</td>
<td>404Hz</td>
<td>Both ends</td>
</tr>
<tr>
<td>105L10</td>
<td>Level</td>
<td>-16dBm0</td>
<td>1004Hz</td>
<td>Both ends</td>
</tr>
<tr>
<td>105L28</td>
<td>Level</td>
<td>-16dBm0</td>
<td>2804Hz</td>
<td>Both ends</td>
</tr>
<tr>
<td>105NT</td>
<td>Noise with tone</td>
<td>--</td>
<td>1004Hz notch</td>
<td>Both ends</td>
</tr>
<tr>
<td>105ERL</td>
<td>Echo return loss</td>
<td>Band-limited noise</td>
<td>--</td>
<td>Both ends</td>
</tr>
<tr>
<td>105SRL</td>
<td>Singing return loss (low frequency)</td>
<td>Band-limited noise</td>
<td>--</td>
<td>Both ends</td>
</tr>
<tr>
<td>105SHI</td>
<td>Singing return loss (high frequency)</td>
<td>Band-limited noise</td>
<td>--</td>
<td>Both ends</td>
</tr>
<tr>
<td>106</td>
<td>Far to near loss</td>
<td>0dBm0</td>
<td>--</td>
<td>TR looped to T1 R1</td>
</tr>
<tr>
<td></td>
<td>Near to far loss</td>
<td>--</td>
<td>--</td>
<td></td>
</tr>
<tr>
<td>CONT</td>
<td>Voice path assurance test tones and levels are trunk dependent.</td>
<td>--</td>
<td>CCS trunks only</td>
<td></td>
</tr>
<tr>
<td>PVELBK</td>
<td>Level</td>
<td>0dBm</td>
<td>--</td>
<td>Speech handler trunks only</td>
</tr>
<tr>
<td></td>
<td>Noise</td>
<td></td>
<td>--</td>
<td></td>
</tr>
</tbody>
</table>

Notes:

a. The standard 105 test includes: 105L, 105RN, 105N, and 105NT.

b. The 105RL (return loss) test includes: 105ERL, 105SRL, and 105SHI.

d. The 105ALL test includes the following 105 test line tests: 105L, 105RN, 105N, 105L4, 105L10, 105L28, and 105NT.

e. 102LB test executes 1004 Hz at 0dB transmission and C-message noise filter used in measurement for noise. This test was designed for APX BSSAPS2 and IVT trunks.
APP:TRFC-SECTION

Software Release: 5E14 and later
Command Group: N/A
Application: 5
Type: Input

1. APPENDIX: TRAFFIC SECTIONS

This appendix identifies the sections of the 30-minute traffic report (TRFC30) by section number and section name.

Some section names are followed by an 'x' which denotes that an identifier is required for requests to allow (ALW) or inhibit (INH) that section for TRFC30 for collection (CLCT) and/or for output to the receive-only printer (ROP). The descriptions (contents) for those sections include "For CLCT" and/or "For ROP/OP" with information as to what identifiers are required for CLCT and/or ROP/OP.

For the sections that are limited for collection the section description includes "For CLCT"; the input message format is for example:

\{ALW|INH\}:TRFC30,CLCT,PSPORT=sm-shelf-dslg

The description also indicates the maximum number of units that can be collected.

Some of those sections have limited ROP output and when "for ROP/OP" specifies "x" equals one of the following and lists the possible keywords (UNIT, HIGH, LOW, HILO); the input message format is for example:

\{ALW|INH\}:TRFC30,ROP,PSPORT,HIGH=1

For other sections that have limited ROP "for ROP/OP" specifies "x = some identifier; the input message format is for example:

\{ALW|INH\}:TRFC30,ROP,TG="trunk group identifier(s)"

The sections whose section names are followed by 'x' can also be requested for output (OP) (of the most recent report) using identifiers for example:

OP:TRFC30,PSORT,HIGH=2

in which case the requested records are output (if available). However, if no identifiers are provided for example:

OP:TRFC30,PSORT

the previously allowed records are output (if any were allowed).

Other section names are followed by '[o]' which denotes that an identifier is optional for ALW, INH, or OP input messages. For these sections there are no "For CLCT" cases since everything generated will be collected; the option applies only to output. If no identifiers are specified the default is that all records collected will be output for example:

OP:TRFC30,CORC

However, specific records can be output using keywords for example:

OP:TRFC30,CORC,UNIT=sm

To allow (ALW) or inhibit (INH) specific records using keywords for example:

\{ALW|INH\}:TRFC30,ROP,CORC,UNIT=sm
For sections where there is no ‘x’ or ‘[o]’ (that is, cannot accept an identifier)

**ALW:TRFC30,ROP,"section name"**

will cause all collected records to print every time the report is generated until inhibited for output by

**INH:TRFC30,ROP,"section name"**.

While:

**OP:TRFC30,"section name"**

will print every record collected for the most recent report.

Unless specifics are provided “for CLCT”, ALW/INH for CLCT requires only the section name: ALW/INH for TRFCH requires only the section name.

**NOTE:** When entering variables, separate the field and its variable with an equal sign. For lists, elements are hyphen (-) separated.

<table>
<thead>
<tr>
<th>Section Name</th>
<th>Section Number</th>
<th>Contents</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACDBRCS</td>
<td>182</td>
<td>Automatic call distributor (ACD)/business and residential customer services (BRCS) measures.</td>
</tr>
</tbody>
</table>
| ACSR x       | 108            | Automatic customer station rearrangement (ACSR) measures.  
Enable groups using RC/V View 13.3 before allowing this section (or ALL) for collection.  
For ROP/OP, where 'x' = ACSR group ID, a maximum of six IDs can be entered. |
| ADPIDB x     | 229            | AIU directly-connected peripheral interface data bus counts.  
For CLCT/ROP, first allow this section for collection or printing (‘x’ is not used), then enable at least one SHELF and AIU using RC/V Views 13.7 (MEASUREMENT COLLECTION SELECTIVITY) and 13.8 (MEASUREMENT RANGE SELECTIVITY).  
For OP, ‘x’ is a SM-SHELF-AIU set and is identified completely by SM#-SHELF#-AIU#. A maximum of six (6) sets can be entered. |
| AIU          | 216            | Access interface unit (AIU) counts.  
Allow this section for collection and then select AIU(s) using RC/V Views 13.7 and 13.8.  
For ROP printing, all AIUs selected for collection are printed when the ALW input message is used.  
For ROP printing, allow this section first and then select AIUs using RC/V Views 13.7 and 13.8. If no AIUs are selected, the default set of AIUs selected for collection will be printed. |
| AIULC x      | 218            | AIU line counts for a specific AIU.  
For CLCT, allow this section for collection and then select one single AIU using RC/V Views 13.7 and 13.8. An AIU is defined as a SM#-AIU# and a maximum of one AIU can be requested through RC/V.  
For ROP/OP, ‘x’ is a line component and is identified completely by SM#-AIU#-AP#-LC#. A maximum of six (6) line component patterns can be entered where SM#-AIU# is consistent.  
For ROP printing, allow this section first (without specifying ‘x’) and then select individual lines using RC/V Views 13.7 and 13.8. |
Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

<table>
<thead>
<tr>
<th>ALUNL x</th>
<th>217</th>
<th>AIU line counts.</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>For CLCT, allow this section for collection and then select a line(s) using RC/V Views 13.7 and 13.8. A line is defined as a SM#-AIU#-AP#-LC# and a maximum of 640 lines can be requested through RC/V.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>For ROP/OP, 'x' is a line and is identified completely by SM#-AIU#-AP#-LC#. A maximum of six (6) lines can be entered.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>For ROP printing, allow this section first (without specifying 'x') and then select individual lines using RC/V Views 13.7 and 13.8.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.</td>
</tr>
</tbody>
</table>

| APDL | 59 | Application processor data link (APDL) measures. |
| ANNC | 46 | Announcement services measures. |

| APSODB x | 228 | AIU Packet Switching On-Demand B-channel counts. |
|         |     | For CLCT/ROP, first allow this section for collection or printing ('x' is not used), then enable at least one AIU using RC/V Views 13.7 and 13.8. |
|         |     | For OP, 'x' is a SM-AIU set and is identified completely by SM#-AIU#. A maximum of six (6) AIUs can be entered. |

| ARS x | 35 | Automatic route selection (ARS) measures. |
|       |     | For ROP/OP, where 'x' = the lead (MCRTPIDX) of an ARS pattern group, a maximum of five patterns can be entered. |

| ASP | 231 | Advanced service platform non toll free. |
|     |     | **NOTE:** The output depends on OFID 1006. If OFID 1006 is switched off then the section 231 (ASP) with single precision counters can be used. For OFID 1006 switched on the section 85 (ASPN) with double precision counters can be used (5E16(2)+). |

| ASPLG | 117 | Advanced service platform large. |

| ASPN | 85 | Advanced service platform non toll free (5E16(2)+) |
|      |     | **NOTE:** The output depends on OFID 1006. If OFID 1006 is switched off then the section 231 (ASP) with single precision counters can be used. For OFID 1006 switched on the section 85 (ASPN) with double precision counters can be used. |

| ASPTF | 232 | Advanced service platform toll free. |
|       |     | **NOTE:** The output depends on OFID 1006. If OFID 1006 is switched off then the section 232 (ASPTF) with single precision counters can be used. For OFID 1006 switched on the section 86 (ASPTFN) with double precision counters can be used (5E16(2)+). |

| ASPTFN | 86 | Advanced service platform toll free (5E16(2)+) |
|        |     | **NOTE:** The output depends on OFID 1006. If OFID 1006 is switched off then the section 232 (ASPTF) with single precision counters can be used. For OFID 1006 switched on the section 86 (ASPTFN) with double precision counters can be used. |

| ATMLNK | 167 | ATM link measurements (5E17(1)+) |
|        |     | For OP request, x equals SM-PSU-LINK-LINKTYPE. |
|        |     | Where: |
|        |     | **SM** = Switching module. |
**PSU** = Packet switch unit (0-1).
**LINK** = Link number (1-10).
**LINKTYPE** = Link type. Valid value(s):
  - B = ATM backhaul.
  - P = ATM PSU link using PHA2.

**ATMQOSPS x** 239 ATM quality of service for PSU to PSU connection (5E17(1)+). For OP request, x equals NCA-LINK-FSID-FCA-CP-DIR.

Where:
- **NCA** = Near PSU community address (1-254).
- **LINK** = Link number (1 - 10).
- **FSID** = Far PSU subnet ID. When PSU CA expansion feature is active, the range of far subnet ID is 0 to 3. When DLCI expansion feature is active, the range of far subnet ID is 0 to 15.
- **FCA** = Far PSU community address (1-254).
- **CP** = Connection priority. Valid value(s):
  - H = High.
  - L = Low.
- **DIR** = ATM PSU-PSU connection PM direction. Valid value(s):
  - I = Incoming.
  - O = Outgoing.

**ATTG x** 33 Attendant group (ATTG) measures.

Enable groups using RC/V View 13.3 before allowing this section (or ALL) for collection.

For ROP/OP, where ’x’ = attendant group ID, a maximum of five IDs can be entered.

**BCHNEG 80** B-channel negotiation (BCHNEG) (5E14+).

For CLCT and ROP printing, enable components using RC/V Views 13.7 and 13.8 before allowing this section for collection. A BCHNEG is defined as a BTG# and a maximum of 640 components can be requested.

For OP request, where ’x’ equal BTG#, a maximum of six units can be entered.

**BCLID x** 147 Bulk calling line identification (BCLID).

For CLCT, [ALW| INH] : TRFC30, CLCT, BCLID=x-x-x-x-x-x-x-x-x where ’x’ equals business customer identifier (BCID), a maximum of 25 can be studied in an office; nine can be entered with a single input request.

ALL (with INH only) inhibits all BCIDs that are allowed for collection; the list of BCIDs is saved.

PREV (with ALW only) reactivates the previously allowed list of BCIDs if PREV is the first ALW request after the list was inhibited.

For ROP/OP, where ’x’ equals one of the following:
- UNIT=Business customer identifier#
- HIGH=count#
- LOW=count#
- HILO=count#
### BEARERLNK

<table>
<thead>
<tr>
<th>BEARERLNK</th>
<th>208</th>
</tr>
</thead>
</table>

Bearer link measurements (5E16(2)+)

For CLCT and ROP printing, enable components using RC/V View 13.7 and 13.8 before allowing this section for collection and ROP.

To allow/inhibit for collection:

```
ALW| INH:TRFC30, CLCT, BEARERLNK
```

For CLCT, you can use `'o'` equals ALL, with INH, inhibits all SM-BNID from collection and reporting, with ALW, allows all existing SM-BNID.

To allow/inhibit for ROP output:

```
ALW| INH:TRFC30, ROP, BEARERLNK
```

To allow/inhibit for TRFCH output:

```
ALW| INH:TRFC30, TRFCH, BEARERLNK
```

Request for immediate output:

```
OP:TRFC30, BEARERLNK=x-x-x-x-x-x
```

(max of 6 units), where `x`=SM-BNID.

Or, `OP:TRFC30, BEARERLNK` will print whatever is allowed on RC/V view.

### BICCG [o]

<table>
<thead>
<tr>
<th>BICCG</th>
<th>205</th>
</tr>
</thead>
</table>

BICC group measurements (BICCG) (5E15+).

For CLCT and ROP printing, enable components using RC/V Views 13.7 and 13.8 before allowing this section for collection. A BICCG is defined as a BICCG#.

For OP request, `'o'` is a BICCG and is identified completely by a: BICCG#

Refer to the APP:RANGES appendix in the Appendixes section of the Input Message manual.

A maximum of thirteen line patterns can be entered.

### BICCSM [o]

<table>
<thead>
<tr>
<th>BICCSM</th>
<th>207</th>
</tr>
</thead>
</table>

BICC group/SM measurements (BICCSM) (5E16(1)+).

For CLCT and ROP printing, enable components using RC/V Views 13.7 and 13.8 before allowing this section for collection. A component is defined as a BICCG#-SM#.

For OP request, `'o'` is a BICCG-SM set and is identified completely by a: BICCG#-SM#

Refer to the APP:RANGES appendix in the Appendixes section of the Input Message manual.

A maximum of seven (7) sets can be entered.

### BRCF x

<table>
<thead>
<tr>
<th>BRCF</th>
<th>29</th>
</tr>
</thead>
</table>

Business and residential customer service feature (BRCF) measures.

Enable groups using RC/V View 13.3 (BRCS MEASUREMENTS) before allowing this section (or ALL) for collection.

For ROP/OP, where `x` = BRCS feature (feature ID), a maximum of five features is allowed.

### BRCS

<table>
<thead>
<tr>
<th>BRCS</th>
<th>26</th>
</tr>
</thead>
</table>

Business and residential customer services (BRCS) office totals.

### CDN x

<table>
<thead>
<tr>
<th>CDN</th>
<th>128</th>
</tr>
</thead>
</table>

Customer directory number (CDN) counts reported on a directory number (DN) basis (analog lines only).
For CLCT, ‘x’ equals one of the following:

- **DN=DN(7 digits)** = A maximum of six hyphen separated DNs can be entered with a single input request. (This applies for {ALW|INH} ROP also).
- **DN=ALL** = (with INH only) Inhibits all DNs that are currently allowed for collection; the list of DNs is saved.
- **DN=PREV** = (with ALW only) Reactivates the previously inhibited list of DNs if PREV is the first ALW request after the list was inhibited.
- **RANGE=DN1&&DN2** = This section has introduced the allowing/inhibiting of a DN range to ease data entry. This range is limited to 25 DNs. DN1 and DN2 are the lower and upper bounds of the range of DNs respectively.

A maximum of 250 DNs can be studied in an office, where all DNs studied can reside on any one SM. Up to 20 DNs under study may be allowed for ROP output.

### APP:RANGES Appendix

<table>
<thead>
<tr>
<th>CMIX</th>
<th>253</th>
<th>Call Mix (CMIX) measurements [SET(1)+].</th>
</tr>
</thead>
<tbody>
<tr>
<td>CMP</td>
<td>126</td>
<td>Communication module processor (CMP).</td>
</tr>
<tr>
<td>CORC</td>
<td>27</td>
<td>Customer-originated RC/V (CORC) traffic measures.</td>
</tr>
</tbody>
</table>

For ROP/OP, where ‘o’ equals one of the following:

- **UNIT=SM#**
- **HIGH=count#**
- **LOW=count#**
- **HILO=count#**

A maximum of six switching modules (SMs) or one count can be entered.

### CT

- **5** Call type (CT) information.

### CTS x

- **125** Control time slot (CTS) link occupancy measurements.

For ROP/OP, where ‘x’ equals one of the following:

- **UNIT=SM#**
- **HIGH=count#**
- **LOW=count#**
- **HILO=count#**

A maximum of six SMs or one count can be entered.

### DCLU

- **21** Digital carrier line unit (DCLU).

### DLINE x

- **222** Digital network unit synchronous optical network (SONET) (DNU-S) - lines counts.

For CLCT and ROP printing, enable one or more lines using RC/V Views 13.7 and 13.8 before allowing this section for collection. A line is defined as a SM#-DNUS#-RDT#-LINE# and a maximum of 512 lines can be requested through RC/V.

For OP request, ‘x’ is a line and is identified completely by an IDLC network equipment number (INEN): SM#-DNUS#-RDT#-LINE#.

Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

A maximum of six line patterns can be entered.

### DLN

- **66** Direct link node (DLN).

### DLTU

- **16** Digital line/trunk unit (DLTU).

### DMLHG

- **65** Defense switched network/automatic voice network (DSN/AUTOVON) multi-line hunt group (MLHG) (DMLHG). The same MLHGs allowed for section 34 (MLHG) will print for DMLHG.

### DNUS

- **189** Digital networking unit-SONET (DNU-S).

### DODB x

- **223** DNU-S - ODB counts.

For CLCT and ROP printing, enable a maximum of one DNU-S using RC/V Views 13.7 and 13.8 before allowing this section for collection. A individual DNU-S is defined as a SM#-DNUS#.
For OP request, where ‘x’ equals SM#-DNUS#-PSU#-PSU_SHELF#, a maximum of six units can be entered.

<table>
<thead>
<tr>
<th>DPIDB x</th>
<th>106</th>
<th>ISDN packet switching directly connected peripheral interface data bus (DPIDB) counts.</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>For CLCT, where ‘x’ equals SM#, a maximum of one SM can be entered.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>For ROP/OP, where ‘x’ equals one of the following:</td>
</tr>
<tr>
<td></td>
<td></td>
<td>UNIT=ISLU#-PSU_SHELF#</td>
</tr>
<tr>
<td></td>
<td></td>
<td>HIGH=count#</td>
</tr>
<tr>
<td></td>
<td></td>
<td>LOW=count#</td>
</tr>
<tr>
<td></td>
<td></td>
<td>HILO=count#</td>
</tr>
<tr>
<td></td>
<td></td>
<td>a maximum of six units or one count can be entered.</td>
</tr>
</tbody>
</table>

For CLCT, where ‘x’ equals one of the following (only one of the study sets can be active):
LCEN=SM#-ISLU# |
or
LCKEN=SM#-ISLU#
for allowing all (up to maximum of 1024) DSLs on one ISLU. A maximum of one ISLU can be entered.

For allowing individually selected DSLs served by an ISLU (LCEN) or an ISLU2 (LCKEN). A maximum of 1024 can be selected, four per request.
LCEN=SM#-ISLU#-LG#-LC#
LCKEN=SM#-ISLU#-LG#-LB#-LCKT#
PREV (with ALW only) reactivates the previously allowed individually selected DSLs if PREV is the first request after an INH-ALL.

ALL (with INH only) inhibits whichever study set is allowed for collection. If an individual study set is allowed for collection then the list of DSLs will be saved when the section is inhibited for collection. If an ISLU study set is allowed for collection, nothing is saved when it is inhibited.

For ROP/OP, where ‘x’ equals one of the following:
LCEN=SM#-ISLU#-LG#-LC#
LCKEN=SM#-ISLU#-LG#-LB#-LCKT#
HIGH=count# |
HILO=count# |
LOW=count#
 a maximum of four DSLs or one count can be entered.

For ECDN, where ‘x’ equals one of the following:

<table>
<thead>
<tr>
<th>DSIG</th>
<th>36</th>
<th>Direct signaling (DSIG).</th>
</tr>
</thead>
<tbody>
<tr>
<td>DSL x</td>
<td>77</td>
<td>Integrated services digital network (ISDN) digital subscriber line (DSL).</td>
</tr>
<tr>
<td></td>
<td></td>
<td>For CLCT, where ‘x’ equals one of the following (only one of the study sets can be active):</td>
</tr>
<tr>
<td></td>
<td></td>
<td>LCEN=SM#-ISLU#</td>
</tr>
<tr>
<td></td>
<td></td>
<td>or</td>
</tr>
<tr>
<td></td>
<td></td>
<td>LCKEN=SM#-ISLU#</td>
</tr>
<tr>
<td></td>
<td></td>
<td>for allowing all (up to maximum of 1024) DSLs on one ISLU. A maximum of one ISLU can be entered.</td>
</tr>
</tbody>
</table>

For allowing individually selected DSLs served by an ISLU (LCEN) or an ISLU2 (LCKEN). A maximum of 1024 can be selected, four per request.
LCEN=SM#-ISLU#-LG#-LC#
LCKEN=SM#-ISLU#-LG#-LB#-LCKT#
PREV (with ALW only) reactivates the previously allowed individually selected DSLs if PREV is the first request after an INH-ALL.

ALL (with INH only) inhibits whichever study set is allowed for collection. If an individual study set is allowed for collection then the list of DSLs will be saved when the section is inhibited for collection. If an ISLU study set is allowed for collection, nothing is saved when it is inhibited.

For ROP/OP, where ‘x’ equals one of the following:
LCEN=SM#-ISLU#-LG#-LC#
LCKEN=SM#-ISLU#-LG#-LB#-LCKT#
HIGH=count# |
HILO=count# |
LOW=count#
 a maximum of four DSLs or one count can be entered.

For OP request, where ‘x’ equals SM#-DNUS#-PSU#-PSU_SHELF#, a maximum of six units can be entered.

<table>
<thead>
<tr>
<th>DSIG</th>
<th>36</th>
<th>Direct signaling (DSIG).</th>
</tr>
</thead>
<tbody>
<tr>
<td>DSL x</td>
<td>77</td>
<td>Integrated services digital network (ISDN) digital subscriber line (DSL).</td>
</tr>
<tr>
<td></td>
<td></td>
<td>For CLCT, where ‘x’ equals one of the following (only one of the study sets can be active):</td>
</tr>
<tr>
<td></td>
<td></td>
<td>LCEN=SM#-ISLU#</td>
</tr>
<tr>
<td></td>
<td></td>
<td>or</td>
</tr>
<tr>
<td></td>
<td></td>
<td>LCKEN=SM#-ISLU#</td>
</tr>
<tr>
<td></td>
<td></td>
<td>for allowing all (up to maximum of 1024) DSLs on one ISLU. A maximum of one ISLU can be entered.</td>
</tr>
</tbody>
</table>

For allowing individually selected DSLs served by an ISLU (LCEN) or an ISLU2 (LCKEN). A maximum of 1024 can be selected, four per request.
LCEN=SM#-ISLU#-LG#-LC#
LCKEN=SM#-ISLU#-LG#-LB#-LCKT#
PREV (with ALW only) reactivates the previously allowed individually selected DSLs if PREV is the first request after an INH-ALL.

ALL (with INH only) inhibits whichever study set is allowed for collection. If an individual study set is allowed for collection then the list of DSLs will be saved when the section is inhibited for collection. If an ISLU study set is allowed for collection, nothing is saved when it is inhibited.

For ROP/OP, where ‘x’ equals one of the following:
LCEN=SM#-ISLU#-LG#-LC#
LCKEN=SM#-ISLU#-LG#-LB#-LCKT#
HIGH=count# |
HILO=count# |
LOW=count#
 a maximum of four DSLs or one count can be entered.

<table>
<thead>
<tr>
<th>DSLG</th>
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<th>Channel Group Measurements.</th>
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<tbody>
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<td>DSN/AUTOVON office totals.</td>
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<tr>
<td>DSNTG</td>
<td>48</td>
<td>DSN/AUTOVON trunk group (DSNTG); the same trunk groups allowed for section 12 (TG) will print for this section.</td>
</tr>
<tr>
<td>E911</td>
<td>148</td>
<td>Enhanced 911 (E911) measurements.</td>
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<tr>
<td>ECDN x</td>
<td>235</td>
<td>Expanded customer directory number (ECDN) counts reported on a directory number (DN) basis (analog lines only).</td>
</tr>
<tr>
<td></td>
<td></td>
<td>To allow/inhibit for collection</td>
</tr>
<tr>
<td></td>
<td></td>
<td>ALW/INH:TRFC30,CLCT,ECDN</td>
</tr>
<tr>
<td></td>
<td></td>
<td>To allow/inhibit for output</td>
</tr>
<tr>
<td></td>
<td></td>
<td>ALW/INH:TRFC30,ROP,ECDN</td>
</tr>
</tbody>
</table>
| ECPSRVT x | 247 | Executive cellular processor service type (ECPSRVT) measurements.  
For CLCT/ROP, first allow the section for collection or printing, then enable at least one SM, PSU and SRV_T using RC/V Views 13.7 and 13.8.  
For OP, 'x' is a SM-PSU-SRV_T set. A maximum of five (5) sets can be entered. |
|---|---|---|
| EDSC | 73 | ISDN BRCS electronic directory customer counts.  
Enable groups using RC/V View 24.9 before allowing this section (or ALL) for collection. |
| EPCS x | 236 | Expanded Personal communications services directory number (EPCS) special study counts reported on a directory number (DN) basis (EPCS lines only).  
To allow/inhibit for collection  
ALW|INH:TRFC30,CLCT,EPCS  
To allow/inhibit for output  
ALW|INH:TRFC30,ROP,EPCS  
Request for immediate output  
OP:TRFC30,EPCS=x-x-x-x-x-x (max of 6 DNs) where  
x=NPA-NXX-XXXX  
and hyphens are required both within the DNs and between the DNs, as shown.  
OP:TRFC30,EPCS (will print whatever is allowed on RC/V 13.10)  
A maximum of 250 EPCS DNs can be studied in an office, where all DNs studied can reside on any one SM. |
| FRBC x | 248 | Frame relay bearer channel (FRBC) counts.  
For CLCT and ROP printing, enable components using RC/V Views 13.7 and 13.8 before allowing this section for collection. A individual PSUEN is defined as a  
SM#-PSU#-SHELF#-CHGRP#-CHANNEL#  
For OP request, where 'x' equals SM#-PSU#-SHELF#-CHGRP#-CHANNEL#, a maximum of four units can be entered. |
| FRPH x | 193 | Frame relay protocol handler (FRPH) counts.  
For CLCT, where 'x' equals the following:  
SM#-PSU#-SHELF#-CHGRP# |
| GETSHPC | 17 | High probability call completion total office. |
To allow/inhibit for collection:
ALW|INH:TRFC30,CLCT,GETSHPC

To allow/inhibit for ROP output:
ALW|INH:TRFC30,ROP,GETSHPC

To allow/inhibit for output on traffic channel:
ALW|INH:TRFC30,TRFCH,GETSHPC

To request for output on demand:
OP:TRFC30:GETSHPC

<table>
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<th>8</th>
<th>High-level service circuits (HLSC).</th>
</tr>
</thead>
<tbody>
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<td>HSL x</td>
<td>201</td>
<td>High Speed Link Measurements (5E16+).</td>
</tr>
</tbody>
</table>

For CLCT and ROP printing, enable components using RC/V Views 13.7 and 13.8 before allowing this section for collection and ROP.

To allow/inhibit for collection:
ALW|INH:TRFC30,CLCT,HSL

To allow/inhibit for ROP output:
ALW|INH:TRFC30,ROP,HSL

To allow/inhibit for TRFCH output:
ALW|INH:TRFC30,TRFCH,HSL

Request for immediate output
OP:TRFC30,HSL=SM#-SET#-MEM# (max of 6 units).

or OP:TRFC30,HSL will print whatever is allowed on RC/V view.

| HSLS x | 202| High Speed Link Set Measurements (5E16+). |

For CLCT and ROP printing, enable components using RC/V Views 13.7 and 13.8 before allowing this section for collection and ROP.

To allow/inhibit for collection:
ALW|INH:TRFC30,CLCT,HSLS

To allow/inhibit for ROP output:
ALW|INH:TRFC30,ROP,HSLS

To allow/inhibit for TRFCH output:
ALW|INH:TRFC30,TRFCH,HSLS

Request for immediate output
OP:TRFC30,HSLS=SM#-SET# (max of 4 units).
<table>
<thead>
<tr>
<th>Code</th>
<th>Value</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>HSPD</td>
<td>244</td>
<td>High Speed Packet Data trunk group measurements (SET5+).</td>
</tr>
<tr>
<td></td>
<td></td>
<td>For CLCT and ROP printing, enable components using RC/V Views 13.7 and 13.8 before allowing this section for collection and ROP.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>To allow/inhibit for collection:</td>
</tr>
<tr>
<td></td>
<td></td>
<td>ALW</td>
</tr>
<tr>
<td></td>
<td></td>
<td>ALW</td>
</tr>
<tr>
<td></td>
<td></td>
<td>ALW</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Request for immediate output</td>
</tr>
<tr>
<td></td>
<td></td>
<td>OP:TRFC30,HSPD=x-x-x-x-x (max of 6 units), where x = HSPD trunk group number.</td>
</tr>
<tr>
<td>IA</td>
<td>6</td>
<td>Ineffective attempts (IA).</td>
</tr>
<tr>
<td>IBROFC</td>
<td>72</td>
<td>ISDN BRCS and Analog Office totals.</td>
</tr>
<tr>
<td>IC</td>
<td>164</td>
<td>InterLATA carrier (IC) measurements.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>For ROP/OP, where 'x' equals FGRP-CIC#, the value FGRP may be either 'B' or 'D' for feature group B and D respectively. The value for CIC# is in the range 0 - 9999.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>A maximum of 10 carrier IDs can be entered.</td>
</tr>
<tr>
<td>ICL</td>
<td>37</td>
<td>Intra-RSM communication link (ICL) measures.</td>
</tr>
<tr>
<td>IDP</td>
<td>31</td>
<td>Individual dialing plan (IDP) measures.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Enable groups using RC/V View 13.3 before allowing this section (or ALL) for collection.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>For ROP/OP, where 'x' = IDP group, a maximum of five groups can be entered.</td>
</tr>
<tr>
<td>IDPIDB</td>
<td>140</td>
<td>Integrated digital carrier unit (IDCU) directly connected peripheral interface data bus (PIDDB) counts.</td>
</tr>
<tr>
<td>ILINE</td>
<td>141</td>
<td>IDCU line counts.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>For CLCT, where 'x' equals SM#-IDCU#-RT#-RTLINE#, a maximum of 512 lines can be entered, six per request.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>PREV (with ALW only) reactivates the previously allowed list of lines if PREV is the first ALW request after the list was inhibited.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>ALL (with INH only) inhibits all lines that were allowed for collection; the list of lines is saved.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>For ROP/OP, where 'x' equals one of the following:</td>
</tr>
<tr>
<td></td>
<td></td>
<td>UNIT=SM#-IDCU#-RT#-RTLINE#</td>
</tr>
<tr>
<td></td>
<td></td>
<td>HIGH=count#</td>
</tr>
<tr>
<td></td>
<td></td>
<td>LOW=count#</td>
</tr>
<tr>
<td></td>
<td></td>
<td>HILO=count#</td>
</tr>
<tr>
<td></td>
<td></td>
<td>A maximum of six units or one count can be entered.</td>
</tr>
<tr>
<td>IODB</td>
<td>142</td>
<td>IDCU on-demand B-channel (ODB) counts.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>For CLCT, where 'x' equals SM#-IDCU#, a maximum of one SM-IDCU pair can be entered.</td>
</tr>
<tr>
<td>IPIDB</td>
<td>139</td>
<td>IDCU peripheral interface data bus (PIDB) counts.</td>
</tr>
</tbody>
</table>
To allow/inhibit for collection

ALW|INH:TRFC30,CLCT,IPIDB

To allow/inhibit for output

ALW|INH:TRFC30,ROP,IPIDB=x

where 'x' equals SM#-IDCU#. It is possible to allow at most 10 IDCUs for ROP at the moment (5 per request).

Request for immediate output

OP:TRFC30,IPIDB

IRT x | 143  IDCU remote digital terminal (RT) counts.

For CLCT, where 'x' equals one of the following (only one of the study sets can be active at one time):

GROUP=SM#-IDCU# for allowing all RTs on an IDCU. A maximum of 25 SM-IDCU pairs can be entered, eight per request.

PREV (with ALW only) reactivates the previously allowed study set if PREV is the first request after an INH.

ALL:
with INH : inhibits whichever study set is allowed for collection.
The study set is saved.

with ALW : allows all existing (but not more than 800) RTs for collection.

UNIT=SM#-IDCU#-RT# for allowing individual RTs. A maximum of 800 RTs can be entered, eight per request.

For ROP/OP, where 'x' equals one of the following:
UNIT=SM#-IDCU#-RT#
HIGH=count#
LOW=count#
HILO=count#

a maximum of six units or one count can be entered.

IPOIU o | 259  IP OIU measurements (5E16(2)+)

For CLCT and ROP printing, enable components using RC/V Views 13.7 and 13.8 before allowing this section for collection and ROP.

To allow/inhibit for collection:

ALW|INH:TRFC30,CLCT,IPOIU,PART={a|all}

where "a" is an individual part number.

For CLCT, you can use 'o' equals ALL, with INH, inhibits all SM-OIU-PG from collection and reporting with ALW, allows all existing SM-OIU-PG.

To allow/inhibit for ROP output:
ALW|INH:TRFC30,ROP,IPOIU,PART={a|all}

where "a" is an individual part number.

To allow/inhibit for TRFCH output:

ALW|INH:TRFC30,TRFCH,IPOIU,PART={a|all}

where "a" is an individual part number.

Request for immediate output:

OP:TRFC30,IPOIU=x-x-x-x-x-x,PART={a|all}

where "x" = SM-OIU-PG and "a" is an individual part number.

or

OP:TRFC30,IPOIU,PART={a|all}

where "a" is an individual part number. will print whatever is allowed on RC/V view.

ISLU 49 Integrated services line unit (ISLU).

ISM [o] 53 ISDN switching module (ISM).

For ROP/OP, where ‘o’ equals one of the following:

UNIT=SM#
HIGH=count#
LOW=count#
HILO=count#

a maximum of six SMs or one count can be entered.

ISOFC 50 ISDN office totals (ISOFC).

ISPI [o] 51 Packet interface (PI) measurements.

For ROP/OP, where ‘o’ equals one of the following:

UNIT=SM#
HIGH=count#
LOW=count#
HILO=count#

a maximum of six SMs or one count can be entered.

ISUP 120 ISDN user part (ISUP) office totals.

IPT 198 Intelligent peripheral trunks (IPT).

For ROP/OP, execute:

ALW:TRFC30,rop,IPT

OP:TRFC30,IPT

For CLCT, a maximum of 25 can be studied in an office using RC/V. If none is allowed for
collection then inhibit collection will be set.

For ROP/OP, execute:

ALW:TRFC30,rop,IPT

OP:TRFC30,IPT

LAG x 251 Line Access Gateway (LAG) measurements [5E16(1)+].

For CLCT and ROP printing, enable components using RC/V Views 13.7 and 13.8 before
allowing this section for collection and ROP.

To allow/inhibit for collection:

ALW|INH:TRFC30,CLCT,LAG
To allow/inhibit for ROP output:

ALW|INH:TRFC30,ROP,LAG

To allow/inhibit for TRFCH output:

ALW|INH:TRFC30,TRFCH,LAG

Request for immediate output

OP:TRFC30,LAG=x-x-x-x-x-x (max of 6 units), where x=SM#-LAG#.

or OP:TRFC30,LAG will print whatever is allowed on RC/V view.

LASS 76 Local area signaling services (LASS) office totals.

LGC x 145 Line group controller (LGC) measurements. For CLCT, where 'x' equals a study group (1-5). The members of an LGC study group consist of unique SM/ISLU(RISLU) pairs; however, the same SM/ISLU(RISLU) pairs may appear in multiple study groups. These SM/ISLU(RISLU) pairs are assigned to a study group using RC view 13.6 (up to 100 unique pairs per study group can be assigned). A maximum of five study groups can be allowed for collection.

NOTE: If an LGC(s) becomes operational on any ISLU that is a member of a study group previously allowed for collection, the counts will not be generated on those additional LGC(s) until the study group is reallowed for CLCT.

For ROP/OP, where 'x' equals one of the following:
UNIT=SM#-ISLU#-LGC#
HIGH=count#
HILO=count#
LOW=count#
a maximum of six LGCs or one count can be entered.

LINE x 90 Per LINE measurements on a concentrator basis. Only lines with non-zero counts will be printed on the ROP.

For CLCT: ([ALW|INH]:TRFC30,CLCT,),
LINE=SM#-line unit#-concentrator#
ILA=SM#-line unit#-concentrator#-line#

LINE=ALL or ILA=ALL (with INH only) inhibits all lines and individual line assignments that were allowed for collection.

A maximum of 20 concentrators and/or 128 individual line assignments (ILA) can be under study simultaneously. A maximum of eight concentrators or six ILAs can be entered with a single input message.

This data can alternatively be entered using RC/V Views 13.4 and 13.5.

Conversion chart CONC to grid and board:

<table>
<thead>
<tr>
<th>conc</th>
<th>0</th>
<th>1</th>
<th>2</th>
<th>3</th>
<th>4</th>
<th>5</th>
<th>6</th>
<th>7</th>
<th>8</th>
</tr>
</thead>
<tbody>
<tr>
<td>grid</td>
<td>0</td>
<td>1</td>
<td>1</td>
<td>2</td>
<td>3</td>
<td>3</td>
<td>4</td>
<td></td>
<td></td>
</tr>
<tr>
<td>board</td>
<td>0</td>
<td>1</td>
<td>0</td>
<td>1</td>
<td>0</td>
<td>1</td>
<td></td>
<td>0</td>
<td>0</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>conc</th>
<th>9</th>
<th>10</th>
<th>11</th>
<th>12</th>
<th>13</th>
<th>14</th>
<th>15</th>
</tr>
</thead>
<tbody>
<tr>
<td>grid</td>
<td>4</td>
<td>5</td>
<td>5</td>
<td>6</td>
<td>6</td>
<td>7</td>
<td>7</td>
</tr>
<tr>
<td>board</td>
<td>1</td>
<td>0</td>
<td>1</td>
<td>0</td>
<td>1</td>
<td>0</td>
<td>1</td>
</tr>
</tbody>
</table>

Conversion chart from line number to switch and level:

<table>
<thead>
<tr>
<th>line num</th>
<th>0</th>
<th>1</th>
<th>2</th>
<th>3</th>
<th>4</th>
<th>5</th>
<th>6</th>
<th>7</th>
<th>8</th>
<th>9</th>
<th>10</th>
<th>11</th>
</tr>
</thead>
<tbody>
<tr>
<td>switch</td>
<td>0 0 0 0 1 1 1 1 2 2 2</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
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</tr>
<tr>
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<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>level</td>
<td>0 1 2 3 0 1 2 3 0 1 2</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>line num</td>
<td>12 13 14 15 16 17 18 19 20 21</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>switch</td>
<td>3 3 3 3 4 4 4 4 5 5</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>level</td>
<td>0 1 2 3 0 1 2 3 0 1</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>line num</td>
<td>22 23 24 25 26 27 28 29 30 31</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>switch</td>
<td>5 5 6 6 6 6 7 7 7 7</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>level</td>
<td>2 3 0 1 2 3 0 1 2 3</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**LN 121** Leased network (LN) office totals.

**LU 11** Line unit (LU) measures.

**MAP 181** Mobile application part (MAP) office total measurements.

**MBG x 192** Multiswitch business group (MBG).

For CLCT, `[ALW|INH]:TRFC30,CLCT,MBG=x-x-x-x-x-x-x-x` where 'x' equals multiswitch business group (MBG), a maximum of 20 can be studied in an office; nine can be entered with a single input request.

For ROP/OP, execute:

```
ALW:TRFC30,rop,MBG
```

**MGSC 74** ISDN BRCS message service customer counts. Enable groups using RC/V View 24.11 before allowing this section (or ALL) for collection.

**MGSG 75** ISDN BRCS message service multi-line hunt group counts.

Enable groups using RC/V View 24.10 before allowing this section (or ALL) for collection.

**MH 185** Message Handler (MH) measurements taken on a per MH basis only on SM2000 SMs. Measurements on all active MHs on the switch will be collected and reported.

**MHPipe 177** MH-QLPS pipe occupancy.

**MLHG x 34** Multi-line hunt group (MLHG) measures.

Enable groups using RC/V View 13.3 before allowing this section (or ALL) for collection.

For ROP/OP, where ‘x’ = MLHG ID, a maximum of five IDs can be entered.

**MMP 18** Module message processor (MMP).

**MMSUJMTB 78** Junctors and MTBS activities of MMSU (MMSUJMTB) counts.

For CLCT and ROP printing, enable components using RC/V Views 13.7 and 13.8 before allowing this section for collection.

For OP request, where ‘x’ equals SM#-MMSU#-SG#-SHELF#, a maximum of six units can be entered with a single input request.

**MMSUGMTIB 79** GDX-ES and MTIBS activities of MMSU (MMSUGMTIB) counts.

For CLCT and ROP printing, enable components using RC/V Views 13.7 and 13.8 before allowing this section for collection.

For OP request, where ‘x’ equals SM#-MMSU#, a maximum of six units can be entered with a single input request.

**MOD1 x 122** Miscellaneous per SM measurements (MOD1).

For ROP/OP, where ‘x’ equals one of the following:

- `UNIT=SM#`
- `HIGH=count#`
- `LOW=count#`
- `HILO=count#`
a maximum of six SMs or one count can be entered.

<table>
<thead>
<tr>
<th>MSGS</th>
<th>19</th>
<th>Message switch (MSGS) controller.</th>
</tr>
</thead>
<tbody>
<tr>
<td>MTSM</td>
<td>149</td>
<td>Matrix time slot measurements (5E16(2)+)</td>
</tr>
</tbody>
</table>

For CLCT and ROP printing, enable components using RC/V Views 13.7 and 13.8 before allowing this section for collection and ROP.

To allow/inhibit for collection: ALW|INH:TRFC30,CLCT,MTSM

To allow/inhibit for ROP output: ALW|INH:TRFC30,ROP,MTSM

To allow/inhibit for TRFCH output: ALW|INH:TRFC30,TRFCH,MTSM

Request for immediate output OP:TRFC30,MTSM=x-x-x-x-x-x (max of 6 units), where x=(ORIG SM#)-(TERM SM#)

Or OP:TRFC30,MTSM will print whatever is allowed for ROP printing on RC/V view.

<table>
<thead>
<tr>
<th>NODE</th>
<th>146</th>
<th>Leased Network node-to-node traffic measurements for selective service trunk reservation (SSTR).</th>
</tr>
</thead>
</table>

In an FTS2000 office this section will always be allowed for CLCT (that is, cannot be inhibited). This section will be sent to the network servicing system (ANSER) using EADAS link.

However, in a non-FTS2000 office this section will always be inhibited for CLCT (that is, cannot be allowed).

This section is inhibited for ROP (that is, cannot be allowed) in every office.

<table>
<thead>
<tr>
<th>NP</th>
<th>241</th>
<th>Number portability (NP).</th>
</tr>
</thead>
<tbody>
<tr>
<td>NS</td>
<td>91</td>
<td>Number services (NS) office totals.</td>
</tr>
</tbody>
</table>

**NOTE:** The output depends on OFID 1006. If OFID 1006 is switched off then the section 91 (NS) with single precision counters can be used. For OFID 1006 switched on the section 84 (NSN) with double precision counters can be used (5E16(2)+).

<table>
<thead>
<tr>
<th>NSN</th>
<th>84</th>
<th>Number services (NS) office totals (5E16(2)+)</th>
</tr>
</thead>
</table>

**NOTE:** The output depends on OFID 1006. If OFID 1006 is switched off then the section 91 (NS) with single precision counters can be used. For OFID 1006 switched on the section 84 (NSN) with double precision counters can be used (5E16(2)+).

<table>
<thead>
<tr>
<th>O800A</th>
<th>196</th>
<th>OSPS 800 access (O800A) measures.</th>
</tr>
</thead>
<tbody>
<tr>
<td>OATQ</td>
<td>109</td>
<td>OSPS American National Standard Institute (ANSI®) transaction capabilities application part (TCAP) query and reply measurements.</td>
</tr>
<tr>
<td>OCAS</td>
<td>110</td>
<td>OSPS customer account services (OCAS) measures.</td>
</tr>
<tr>
<td>OCAS7</td>
<td>135</td>
<td>OSPS customer account services common channel signaling System 7/international credit card validation signaling measures.</td>
</tr>
<tr>
<td>OCOIN</td>
<td>100</td>
<td>OSPS coin measurements.</td>
</tr>
<tr>
<td>OCTD x</td>
<td>103</td>
<td>OSPS centralized automatic message accounting (CAMA) tone decoder measurements.</td>
</tr>
</tbody>
</table>

For ROP/OP, where ‘x’ equals SM#, a maximum of five SMs can be entered.

<table>
<thead>
<tr>
<th>ODACCIN</th>
<th>134</th>
<th>OSPS directory assistance (DA) call completion and intercept measures.</th>
</tr>
</thead>
<tbody>
<tr>
<td>ODBPSU x</td>
<td>221</td>
<td>On-demand B-channel - PSU shelf counts.</td>
</tr>
</tbody>
</table>

For CLCT and ROP printing, enable components using RC/V Views 13.7 and 13.8 before allowing this section for collection. A individual PSU shelf is defined as a SM#-PSU#-PSU_SHELF# and a maximum of 115 components can be requested.

For OP request, where ‘x’ equals SM#-DNUS#-PSU#-PSU_SHELF#, a maximum of six units can be entered.

| OEIS x | 124| OSPS external information system (OEIS) data links measures. One measurement per EIS link with a maximum of 320 links. |
For ROP/OP, where 'x' equals one of the following:
UNIT=EIS_ID#-LINKNO#
HIGH=count#
LOW=count#
HILO=count#
a maximum of six units or one count can be entered.

OFA 61 OSPS facility administration (OFA) measures.
OFC 3 Office (OFC) totals.
OFF 127 OSPS fast features (OFF) measures.
OINTA 97 OSPS interflow listing services/commercial-automatic call distributor (C-ACD) measures (OINTA).
This was formerly titled OSPS interflow non-toll and assistance (T&A) calls sent measures (OINTA).
OIRCV 96 OSPS interflow T&A calls received (OIRCV) measures.
OISNT 95 OSPS interflow T&A calls sent (OISNT) measures.
OIU x 81 Optical interface unit (OIU) counts [5E16(2)+].

For CLCT and ROP printing, enable components using RC/V Views 13.7 and 13.8 before allowing this section for collection and printing to the ROP.

To allow/inhibit for collection:
ALW|INH:TRFC30,CLCT,OIU{,all}
For CLCT, if you use the ALL option, with INH, it will inhibit all SM-OIU from collection and reporting. If you use ALL with ALW, it will allow all existing SM-OIU for collection.

To allow/inhibit for ROP output:
ALW|INH:TRFC30,ROP,OIU
To allow/inhibit for TRFCH output:
ALW|INH:TRFC30,TRFCH,OIU
Request for immediate output:
OP:TRFC30,OIU=x-x-x-x-x-x
where "x" = SM-OIU

OLAC 195 OSPS line applications for consumers (OLAC) signaling measures.
OMISC 123 OSPS miscellaneous calls measures.
ORTR 63 OSPS real-time rating (ORTR) query measures.
OSPS 44 Operator services position system measurements.
OSPSDL [o] 45 Operator Services Position System data links (OSPS-DL) directory assistance system/computer (DAS/C) and/or management information system/computer (MIS/C) measurements.
For ROP/OP, where 'o' equals one of the following:
UNIT=SM#
HIGH=count#
LOW=count#
HILO=count#
a maximum of five SMs or one count can be entered.

OTA 64 OSPS miscellaneous calls.
OTAP 102 OSPS performance.
OVMS 168 OSPS voice messaging service (OVMS) measures.
OVOEQ 101 OSPS call volume and equipment usage.
### PAG Measurements

<table>
<thead>
<tr>
<th>PAG</th>
<th>254</th>
<th>SM PAG measurements [5E16(1)+].</th>
</tr>
</thead>
<tbody>
<tr>
<td>PBG x</td>
<td>119</td>
<td>Packet business group (PBG) counts.</td>
</tr>
</tbody>
</table>

For ROP/OP, where 'x' equals one of the following:
- UNIT=PBG#
- HIGH=count#
- LOW=count#
- HILO=count#

A maximum of five PBGs or one count can be entered.

### PBOCC Measurements

<table>
<thead>
<tr>
<th>PBOCC x</th>
<th>165</th>
<th>PSU2 Packet bus occupancy (PBOCC) measurements [5E17(1)+].</th>
</tr>
</thead>
</table>

For CLCT and ROP printing, enable components using RC/V Views 13.7 and 13.8 before allowing this section for collection and ROP. A component is a SM#-PSU# and a maximum of 46 components can be requested through RC/V.

To allow/inhibit for collection:
- ALW|INH:TRFC30,CLCT,PBOCC

To allow/inhibit for ROP output:
- ALW|INH:TRFC30,ROP,PBOCC

To allow/inhibit for TRFCH output:
- ALW|INH:TRFC30,TRFCH,PBOCC

Request for immediate output:
- OP:TRFC30,PBOCC=x-x-x-x-x-x (max of 6 units), where x=SM#-PSU#. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual for the range of values for SM# and PSU#.

or OP:TRFC30,PBOCC will print all of the components enabled for ROP output on RC/V Views 13.7 and 13.8.

### PC Measurements

<table>
<thead>
<tr>
<th>PC x</th>
<th>234</th>
<th>Message transfer part point code (PC) measurements.</th>
</tr>
</thead>
</table>

For CLCT and ROP printing, enable one or more PC using RC/V Views 13.7 and 13.8 before allowing this section for collection. A PC is defined as a GSM#-NETWORK#-CLUSTER#-MEMBER# and a maximum of 640 PC can be requested through RC/V.

For OP request, 'x' is a PC and is identified completely by a:
- GSM#-NETWORK#-CLUSTER#-MEMBER#

Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

A maximum of six line patterns can be entered.

### PCF Measurements

<table>
<thead>
<tr>
<th>PCF x</th>
<th>245</th>
<th>Protocol handler packet control function (PCF) [5E17(1)+].</th>
</tr>
</thead>
</table>

For CLCT and ROP printing, enable components using RC/V Views 13.7 and 13.8 before allowing this section for collection and ROP. A component is a SM#-PSU#-SHELF#-CHGRP# and a maximum of 230 components can be requested through RC/V.

To allow/inhibit for collection:
ALW|INH:TRFC30,CLCT,PCF

To allow/inhibit for ROP output:
ALW|INH:TRFC30,ROP,PCF

To allow/inhibit for TRFCH output:
ALW|INH:TRFC30,TRFCH,PCF

Request for immediate output:

OP:TRFC30,PCF=x-x-x-x-x-x (max of 6 units), where
x=SM#-PSU#-SHELF#-CHGRP#.

Refer to the APP:RANGES appendix in the Appendixes
section of the Input Messages manual for the range of values for SM#, PSU#, SHELF# and
CHGRP#.

OP:TRFC30,PCF will print all of the components enabled for ROP output on RC/V Views
13.7 and 13.8.

PCSDN x

199 Personal communications services directory number (PCSDN) special study counts reported
on a directory number (DN) basis (PCS lines only).

For CLCT, 'x' equals the following:
-DN(7 digits) = A maximum of six hyphen separated DNs can be entered with a single
input request.

A maximum of 48 PCS DNs can be studied in an office, where all DNs studied can reside
on any one SM.

PCSOFC 200 Personal communications services office (PCSOFC) total measurements.

PHE x 2 Protocol handler ethernet (PHE) (5E17(1)+).

For CLCT and ROP printing, enable components using RC/V Views 13.7 and 13.8 before
allowing this section for collection and ROP. A component is a
SM#-PSU#-SHELF#-CHGRP# and a maximum of 230 components can be requested
through RC/V.

To allow/inhibit for collection:
ALW|INH:TRFC30,CLCT,PHE

To allow/inhibit for ROP output:
ALW|INH:TRFC30,ROP,PHE

To allow/inhibit for TRFCH output:
ALW|INH:TRFC30,TRFCH,PHE

Request for immediate output:

OP:TRFC30,PHE=x-x-x-x-x-x (max of 6 units), where
x=SM#-PSU#-SHELF#-CHGRP#.

Refer to the APP:RANGES appendix in the Appendixes
section of the Input Messages manual for the range of values for SM#, PSU#, SHELF# and
CHGRP#.

OP:TRFC30,PHE will print all of the components enabled for ROP output on RC/V Views
13.7 and 13.8.
<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
<th>Value</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>PKTGRP</td>
<td>Packet group (5E16(2)+)</td>
<td>211</td>
<td>For CLCT and ROP printing, enable components using RC/V Views 13.7 and 13.8 before allowing this section for collection and ROP.</td>
</tr>
<tr>
<td></td>
<td>To allow/inhibit for collection:</td>
<td></td>
<td>ALW</td>
</tr>
<tr>
<td></td>
<td>To allow/inhibit for ROP output:</td>
<td></td>
<td>ALW</td>
</tr>
<tr>
<td></td>
<td>To allow/inhibit for TRFCH output:</td>
<td></td>
<td>ALW</td>
</tr>
<tr>
<td></td>
<td>Request for immediate output:</td>
<td></td>
<td>OP:TRFC30,PKTGRP=x-x-x-x (max of 12 units), where x=PKTGRP# (packet group number).</td>
</tr>
<tr>
<td></td>
<td>Or OP:TRFC30,PKTGRP will print whatever is allowed on the RC/V View.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>PKTZ</td>
<td>Packetization time measurements (5E16(2)+)</td>
<td>262</td>
<td>For CLCT and ROP printing, enable components using RC/V Views 13.7 and 13.8 before allowing this section for collection and ROP.</td>
</tr>
<tr>
<td></td>
<td>For CLCT, you can use 'o' equals ALL, with INH, inhibits all BNID from collection and reporting with ALW, allows all existing BNID.</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>To allow/inhibit for ROP output:</td>
<td></td>
<td>ALW</td>
</tr>
<tr>
<td></td>
<td>To allow/inhibit for TRFCH output:</td>
<td></td>
<td>ALW</td>
</tr>
<tr>
<td></td>
<td>Request for immediate output:</td>
<td></td>
<td>OP:TRFC30,PKTZ=x-x-x-x-x-x-x (max of 6 units), where x=BNID.</td>
</tr>
<tr>
<td></td>
<td>Or OP:TRFC30,PKTZ will print whatever is allowed on RC/V view.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>PRIGRP</td>
<td>Primary rate interface group (PRIGRP) (5E14+)</td>
<td>243</td>
<td>For CLCT and ROP printing, enable components using RC/V Views 13.7 and 13.8 before allowing this section for collection. A PRIGRP is defined as a PRIGRP# and a maximum of 640 components can be requested.</td>
</tr>
<tr>
<td></td>
<td>For OP request, where 'x' equal PRIGRP#, a maximum of six units can be entered.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>PROC</td>
<td>Processor (PROC) performance.</td>
<td>15</td>
<td></td>
</tr>
<tr>
<td>PSGRP</td>
<td>ISDN packet switching groups (PSGRP) for modem pooling and multi-line hunt groups. For</td>
<td>71</td>
<td></td>
</tr>
<tr>
<td>Component</td>
<td>Code</td>
<td>Notes</td>
<td></td>
</tr>
<tr>
<td>-----------</td>
<td>------</td>
<td>-------</td>
<td></td>
</tr>
</tbody>
</table>
| PSODB x   | 105  | ISDN packet switching ODB counts. For ROP/OP, where 'x' equals one of the following:  
UNIT=SM#-ISLU#  
HIGH=count#  
LOW=count#  
HILO=count#  
a maximum of six units or one count can be entered. |
| PSOFC     | 69   | ISDN packet switching office (PSOFC) totals. |
| PSPH x    | 68   | ISDN packet switching PH (PSPH)/DSLG counts.  
For ROP/OP, where 'x' equals one of the following:  
UNIT=SM#-SHELF#-DSLG#  
HIGH=count#  
LOW=count#  
HILO=count#  
a maximum of six units or one count can be entered. |
| PSPORT x  | 67   | ISDN packet switching protocol handler (PH) port (PSPORT) counts. A port is identified completely by SM#-SHELF#-DSLG#-PORT# where SM values are in the range (1-192), SHELF values are in the range (0-4), DSLG values are in the range (0-15), and PORT values are channel numbers in the range (0-127).  
For CLCT, where 'x' equals one of the following (only one of the study sets can be active):  
SM#-SHELF#-DSLG# for allowing a DSLG. A maximum of one DSLG can be entered.  
SM#-SHELF#-DSLG#-PORT# for allowing arbitrarily selected ports. A maximum of 128 ports can entered, six per input message line.  
PREV (with ALW only) reactivates the previously allowed study set of arbitrarily selected ports if PREV is the first request after an INH.  
ALL (with inhibit only) inhibits whichever study set was allowed. If arbitrarily selected ports study set had been allowed then the list of ports allowed is saved; if a DSLG was allowed, nothing is saved.  
For ROP/OP, 'x' equals (only one is active at a time):  
UNIT=PORT#  
for up to six ports belonging to one DSLG.  
UNIT=SM#-SHELF#-DSLG#-PORT#  
for arbitrarily selected ports.  
a maximum of six ports can be selected.  
HIGH=count#  
LOW=count#  
HILO=count#  
a maximum of one count can be selected. |
<p>| PSSM x    | 132  | ISDN packet switching per switching module processor (PSSM) counts. For ROP/OP, where 'x' equals one of the following: |</p>
<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
<th>Maximum Entering</th>
</tr>
</thead>
<tbody>
<tr>
<td>UNIT</td>
<td>SM#</td>
<td>6 or one count</td>
</tr>
<tr>
<td>HIGH</td>
<td>count#</td>
<td></td>
</tr>
<tr>
<td>LOW</td>
<td>count#</td>
<td></td>
</tr>
<tr>
<td>HILO</td>
<td>count#</td>
<td></td>
</tr>
</tbody>
</table>

a maximum of six SMs or one count may be entered.

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
<th>Maximum Entering</th>
</tr>
</thead>
<tbody>
<tr>
<td>PSTG</td>
<td>ISDN packet switching trunk group counts. For ROP/OP, where 'x' equals one of the following:</td>
<td>92</td>
</tr>
<tr>
<td></td>
<td>UNIT=trunk group#</td>
<td></td>
</tr>
<tr>
<td></td>
<td>HIGH=count#</td>
<td></td>
</tr>
<tr>
<td></td>
<td>LOW=count#</td>
<td></td>
</tr>
<tr>
<td></td>
<td>HILO=count#</td>
<td></td>
</tr>
</tbody>
</table>

a maximum of six units or one count can be entered.

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
<th>Maximum Entering</th>
</tr>
</thead>
<tbody>
<tr>
<td>PSUCHAN</td>
<td>Packet switch unit channel measurements (PSUCHAN). For CLCT, where 'x' equals the following:</td>
<td>193</td>
</tr>
<tr>
<td></td>
<td>SM#-PSU#-SHLF#-CHGRP#-CHAN#</td>
<td></td>
</tr>
</tbody>
</table>

Maximum of 62 PSUCHANs can be entered, six per request.

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
<th>Maximum Entering</th>
</tr>
</thead>
<tbody>
<tr>
<td>PSULNK</td>
<td>Protocol handler for asynchronous transfer mode (ATM) link counts For ROP/OP, where 'x' = near community address (NCA)-far community address (FCA)</td>
<td>197</td>
</tr>
</tbody>
</table>

Maximum of 10 sets of IDs can be entered.

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
<th>Maximum Entering</th>
</tr>
</thead>
<tbody>
<tr>
<td>QANN</td>
<td>Announcements for queuing (QANN) multi-line hunt groups. Enable groups using RC/V View 13.3 before allowing this section (or ALL) for collection. For ROP/OP, where 'x' = MLHG ID. For each ID entered for output, 5 records are output to the ROP (a maximum of 25 records).</td>
<td>42</td>
</tr>
</tbody>
</table>

A maximum of five IDs can be entered.

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
<th>Maximum Entering</th>
</tr>
</thead>
<tbody>
<tr>
<td>QGP</td>
<td>QGP processor performance (QGP).</td>
<td>175</td>
</tr>
<tr>
<td>QMLHG</td>
<td>Queuing for multi-line hunt group (QMLHG). Enable groups using RC/V View 13.3 before allowing this section (or ALL) for collection. For ROP/OP, where 'x' = MLHG ID with queuing.</td>
<td>40</td>
</tr>
</tbody>
</table>

A maximum of five IDs can be entered.

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
<th>Maximum Entering</th>
</tr>
</thead>
<tbody>
<tr>
<td>QPIPE</td>
<td>QLPS-QGP pipe occupancy.</td>
<td>176</td>
</tr>
<tr>
<td>QSF</td>
<td>Queuing for simulated facility (QSF) groups. Enable groups using RC/V View 13.3 before allowing this section (or ALL) for collection. For ROP/OP, where 'x' = simulated facility group (SFG) ID. A maximum of five SFG IDs can be entered.</td>
<td>57</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
<th>Maximum Entering</th>
</tr>
</thead>
<tbody>
<tr>
<td>QTG</td>
<td>Queuing for trunk groups (QTG). Enable groups using RC/V View 13.3 before allowing this section (or ALL) for collection. For ROP/OP, where 'x' = trunk group ID, a maximum of five trunk group IDs can be entered.</td>
<td>55</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
<th>Maximum Entering</th>
</tr>
</thead>
<tbody>
<tr>
<td>RAS</td>
<td>Remote access services (RAS) measurements.</td>
<td>93</td>
</tr>
<tr>
<td>RDY</td>
<td>DNU-S - RDT counts. For CLCT and ROP printing, enable a RDT(s) using RC/V Views 13.7 and 13.8 before</td>
<td>224</td>
</tr>
</tbody>
</table>
allowing this section for collection. A RDT is defined as a SM#-DNUS#-RDT# and a maximum of 256 RDTs can be requested through RC/V.

For OP request, ‘x’ is a RDT and is identified completely by SM#-DNUS#-RDT#.

Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

A maximum of six RDT patterns can be entered.

<table>
<thead>
<tr>
<th>RDTDNU x</th>
<th>225</th>
<th>Digital networking unit - synchronous optical network (SONET) (DNU-S) - RDT DNU-S counts.</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>For CLCT and ROP printing, enable DNU-S(s) using RC/V Views 13.7 and 13.8 before allowing this section for collection. A RDT is identified by a SM#-DNUS# and a maximum of 2 DNU-S can be requested through RC/V. For OP request, ‘x’ is a RDT and is identified completely by SM#-DNUS#-RDT#. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual. A maximum of six RDT patterns can be entered.</td>
</tr>
</tbody>
</table>

| RSIT | 39 | Remote site (RSIT) stand-alone measures. |
| RT | 20 | Remote terminal - DCLU. |
| RVPT [o] | 25 | Revertive pulsing transceivers (RVPT). For ROP/OP, where ‘o’ equals one of the following: UNIT=SM# HIGH=count# LOW=count# HILO=count# a maximum of six SMs or one count can be entered. |

| SAD [o] | 4 | System access delay (SAD) For ROP/OP, where ‘o’ equals one of the following: UNIT=SM# HIGH=count# LOW=count# HILO=count# a maximum of six SMs or one count can be entered. |

| SCCP x | 233 | Signaling connection control part (SCCP) measurements. For CLCT and ROP printing, enable one or more SCCP using RC/V Views 13.7 and 13.8 before allowing this section for collection. A SCCP is defined as a GSM# and a maximum of 16 SCCP can be requested through RC/V. For OP request, ‘x’ is a SCCP and is identified completely by a: GSM# Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual. A maximum of six line patterns can be entered. |

| SCTP o | 210 | Stream control transmission protocol (SE16(2)+) For CLCT and ROP printing, enable components using RC/V Views 13.7 and 13.8 before allowing this section for collection and ROP. To allow/inhibit for collection: |
To allow/inhibit for ROP output:

ALW|INH:TRFC30,ROP,SCTP

To allow/inhibit for TRFCH output:

ALW|INH:TRFC30,TRFCH,SCTP

Request for immediate output:

OP:TRFC30,SCTP=x-x-x-x (max of 7 units), where x=SM#-ASSCN#

or OP:TRFC30,SCTP will print whatever is allowed on the RC/V View.

SDN 94 Action control point for software defined networks.

SFG x 32 Simulated facility group (SFG) measures.

Enable groups using RC/V View 13.3 before allowing this section (or ALL) for collection.

For ROP/OP, where ‘x’ = SFG ID, a maximum of five IDs can be entered.

SG x 144 Switch group (SG) (also known as half-grid) measurements.

For CLCT, where ‘x’ equals a study group (1-5). The members of an SG study group consist of unique SM/LU pairs; however, the same SM/LU pairs may appear in multiple study groups. These SM/LU pairs are assigned to a study group using RC view 13.6 (up to 100 unique pairs per study group can be assigned). A maximum of five study groups can be allowed for collection.

NOTE: If an SG(s) becomes operational on any LU that is a member of a study group previously allowed for collection, the counts will not be generated on those additional SG(s) until the study group is reallocated for CLCT.

For ROP/OP, where ‘x’ equals one of the following:

UNIT=SM#-LU#-concentrator#-SG#
HIGH=count#
HILLO=count#
LOW=count#

a maximum of six SGs or one count can be entered.

SIPT 209 Session initiation protocol for telephony office totals (5E16(2)+)

To allow/inhibit for collection:

ALW|INH:TRFC30,CLCT,SIPT

To allow/inhibit for ROP output:

ALW|INH:TRFC30,ROP,SIPT

To allow/inhibit for output on traffic channel:

ALW|INH:TRFC30,TRFCH,SIPT

To request for immediate output:

OP:TRFC30,SIPT

SL x 230 Message transfer part signaling link (SL) measurements.

For CLCT and ROP printing, enable one or more SL using RC/V Views 13.7 and 13.8.
before allowing this section for collection. A SL is defined as a GSM#-LSNUM#-MEMBER# and a maximum of 512 SL can be requested through RC/V.

For OP request, ‘x’ is a SL and is identified completely by a: GSM#-LSNUM#-MEMBER#

Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

A maximum of six line patterns can be entered.

<table>
<thead>
<tr>
<th>SLS x</th>
<th>203</th>
<th>Signaling link set (SLS) measurements (5E15+)</th>
</tr>
</thead>
<tbody>
<tr>
<td>For CLCT and ROP printing, enable one or more SLS using RC/V Views 13.7 and 13.8 before allowing this section for collection. A SLS is defined as a GSM#-SLS#.</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
| For OP request, ‘x’ is a SLS and is identified completely by a: GSM#-SLS#
| Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual. |
| A maximum of nine line patterns can be entered. |

<table>
<thead>
<tr>
<th>SMIWGLINK</th>
<th>206</th>
<th>SM IWG link measurements [5E16(1)+]</th>
</tr>
</thead>
<tbody>
<tr>
<td>SMIWGPCT</td>
<td>206</td>
<td>SM IWG PCT link measurements (5E15+).</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>SMS [o]</th>
<th>22</th>
<th>Switching module system (SMS).</th>
</tr>
</thead>
<tbody>
<tr>
<td>For ROP/OP, where ‘o’ equals one of the following: UNIT=SM#</td>
<td></td>
<td></td>
</tr>
<tr>
<td>HIGH=count#</td>
<td></td>
<td></td>
</tr>
<tr>
<td>LOW=count#</td>
<td></td>
<td></td>
</tr>
<tr>
<td>HILO=count#</td>
<td></td>
<td></td>
</tr>
<tr>
<td>a maximum of six SMs or one count can be entered.</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>SNP x</th>
<th>204</th>
<th>Signaling network performance (SNP) (5E15+)</th>
</tr>
</thead>
<tbody>
<tr>
<td>For CLCT and ROP printing, enable one or more GSM using RC/V Views 13.7 and 13.8 before allowing this section for collection. A GSM is defined as a GSM#.</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
| For OP request, ‘x’ is a GSM and is identified completely by a: GSM#
| Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual. |
| A maximum of five line patterns can be entered. |

<table>
<thead>
<tr>
<th>SPA</th>
<th>98</th>
<th>Special access (SPA) measurement counts.</th>
</tr>
</thead>
<tbody>
<tr>
<td>SQA x</td>
<td>58</td>
<td>Simulated facility group (SFG) queuing announcement (SAQ).</td>
</tr>
<tr>
<td>Enable groups using RC/V View 13.3 before allowing this section (or ALL) for collection.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>For ROP/OP, where ‘x’ = simulated facility group with queuing announcements, a maximum of five SFGs can be entered.</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>TBCT</th>
<th>243</th>
<th>Two B-channel transfer (TBCT).</th>
</tr>
</thead>
<tbody>
<tr>
<td>For CLCT and ROP printing, enable components using RC/V Views 13.7 and 13.8 before allowing this section for collection. A TBCT is defined as a PRIGRP# and a maximum of 640 components can be requested.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>For OP request, where ‘x’ equal PRIGRP#, a maximum of six units can be entered.</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>TAG x</th>
<th>252</th>
<th>Trunk access gateway (TAG) measurements [5E16(1)+].</th>
</tr>
</thead>
<tbody>
<tr>
<td>For CLCT and ROP printing, enable components using RC/V Views 13.7 and 13.8 before allowing this section for collection and ROP.</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
To allow/inhibit for collection:
\[ ALW|INH:TRFC30,CLCT,TAG \]

To allow/inhibit for ROP output:
\[ ALW|INH:TRFC30,ROP,TAG \]

To allow/inhibit for TRFCH output:
\[ ALW|INH:TRFC30,TRFCH,TAG \]

Request for immediate output
\[ OP:TRFC30,TAG=x-x-x-x-x-x \] (max of 6 units), where \( x=SM\#-TAG\# \).

or \[ OP:TRFC30,TAG \] will print whatever is allowed on RC/V view.

<table>
<thead>
<tr>
<th>TCAP</th>
<th>180</th>
</tr>
</thead>
<tbody>
<tr>
<td>Transaction capability application part (TCAP) office total measurements.</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>TD [o]</th>
<th>7</th>
</tr>
</thead>
<tbody>
<tr>
<td>Tone decoders (TD):</td>
<td></td>
</tr>
<tr>
<td>For ROP/OP, where 'o' equals one of the following:</td>
<td></td>
</tr>
<tr>
<td>UNIT=SM#</td>
<td></td>
</tr>
<tr>
<td>HIGH=count#</td>
<td></td>
</tr>
<tr>
<td>LOW=count#</td>
<td></td>
</tr>
<tr>
<td>HILO=count#</td>
<td></td>
</tr>
<tr>
<td>a maximum of six SMs or one count can be entered.</td>
<td></td>
</tr>
</tbody>
</table>

| TG x | 12 |
| Trunk group (TG) measures. |     |
| For ROP/OP, where 'x' = identifiers of trunk groups (TGID). \( x \) can be entered as a single number or as a list of up to five identifiers. It cannot be used with CLCT or TRFCH in an ALW or INH message. |     |

| TGN x | 212 |
| Trunk group (TGN) measures (5E15+). |     |
| For ROP/OP, where 'x' = identifiers of trunk groups (TGID). \( x \) can be entered as a single number or as a list of up to four identifiers. It cannot be used with CLCT or TRFCH in an ALW or INH message. |     |

| TQA x | 56 |
| Trunk group queuing announcements (TQA). |     |
| Enable groups using RC/V View 13.3 before allowing this section (or ALL) for collection. |     |
| For ROP/OP, where 'x' = trunk group ID, a maximum of five trunk group IDs can be entered. |     |

| TRFC15 | 2 |
| Fifteen minute traffic report. |     |

| TRMG x | 30 |
| Terminal group (TRMG) measures. |     |
| Enable groups using RC/V View 13.3 before allowing this section (or ALL) for collection. |     |
| For ROP/OP, where 'x' = terminal group ID, a maximum of five IDs can be entered. |     |

| TSM | 150 |
| Time slot measurements (5E16(2)+) |     |
| For CLCT and ROP printing, enable components using RC/V Views 13.7 and 13.8 before allowing this section for collection and ROP. |     |
| To allow/inhibit for collection: \[ ALW|INH:TRFC30,CLCT,TSM \] |     |
| To allow/inhibit for ROP output: \[ ALW|INH:TRFC30,ROP,TSM \] |     |
| To allow/inhibit for TRFCH output: \[ ALW|INH:TRFC30,TRFCH,TSM \] |     |
Request for immediate output OP:TRFC30, TSM=x-x-x-x-x-x (max of 6 units), where x=SM

Or OP:TRFC30, TSM will print whatever is allowed on RC/V view.

<p>| | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>TU</td>
<td>14</td>
</tr>
<tr>
<td>TX [o]</td>
<td>60</td>
</tr>
</tbody>
</table>

- For ROP/OP, where ‘o’ equals one of the following:
  - UNIT=SM#
  - HIGH=count#
  - LOW=count#
  - HILO=count#

  A maximum of six SMs or one count can be entered.

<p>| | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>UCONF</td>
<td>10</td>
</tr>
<tr>
<td>UTS</td>
<td>23</td>
</tr>
<tr>
<td>VLD</td>
<td>1</td>
</tr>
<tr>
<td>VOCODER</td>
<td>246</td>
</tr>
</tbody>
</table>
1. APPENDIX: TST:DSL INPUT MESSAGE

1.1 ABSTRACT

This appendix is intended to provide detailed information to support the TST:DSL input message. This appendix provides information which will be helpful for the experienced, as well as the new user.

NOTE: ISLU is supported only on SM whereas ISLU2 is supported on both SM-2000 and the SM. It also should be noted that ISLU2 is supported in 5E10 and later releases. The term LCKEN and ISLU2 in this section is associated with 5E10 and later releases.

1.2 TEST PROCEDURE LIMITATIONS

A test procedure independent of the TST:DSL input message can test any digital subscriber line (DSL) or, more accurately, any basic rate interface (BRI). Presently, testing of DSLs is supported in all configurations of the integrated services line unit (ISLU) and integrated digital carrier unit (IDCU). In addition, testing DSLs of both custom and standard (layer 3) interface types is supported.

The types of DSL (layer 1) interfaces supported are the T-interface (T) and the U-interface (U). The U-interface DSLs (U-DSLs), are supported by alternate mark inversion (AMI) and 2 binary 1 quaternary (2B1Q) technologies. The 2B1Q version supports the standard defined by the ANSI®. For the remainder of this document and the TST:DSL output message manual, the term ANSI® will refer to the 2B1Q version.

For IDCU the equivalent of the ISLU line card (LC) is called a channel unit (CU). Throughout this message, the LC and IDCU CU will be collectively referred to as the line termination (LT). For ISLU2, 8 of these line terminations are integrated on a single pack called line board. Since there is no unique physical hardware associated with these for ISLU2, we associate ISLU2 with the term "line circuit". The term LC is allowed on input as a value for the TERM parameter; however, LT is preferred and will always be used in output messages and associated documentation.

Any TST:DSL request may be terminated using the STP:TST:DSL input message. The only exception is the IDCU CRC test, which as per specification, must execute until completion.

The following message formats indicate the parameters that apply to specific test types as used for ISLU and IDCU applications. If a parameter not shown within a specific format is used, the parameter will be optionally ignored (if the parameter is unneeded) or the request will be rejected (either partially or completely). The TST:DSL

1.3 ENTRY CRITERIA

Before a TST:DSL test request can be executed, specific conditions must be satisfied, most importantly, the DSL port to be tested must be adequately identified. For TST:DSL, the SM and internal port name are not currently accepted on input; therefore, other external identifiers must be used.

NOTE: The ports that are not assigned the accepted external identifiers cannot be tested using TST:DSL (such as, inter-SM ports).

A complete TST:DSL request can be generated by providing a DN or an OE number on an input. The following requests fully specify LPBK testing on all populated DSL channels (that is, using default parameters).
If an OE number is entered and a CPE LPBK is intended or a USER mode test has been specified, a valid TEI must be entered. The following sections clarify the use of the accepted external identifiers.

1.3.1 Directory Number (DN)

The DN is the most complete external identifier that can be submitted. From the DN, the OE number and assigned TEI can be determined.

On a single-point/point-to-point DSL there can only be one active (CSV|CSD) user; therefore, the service order profile (USOP) can immediately be associated with an attached CPE. On a multi-point DSL there can be eight (CSV|CSD) users. Each user is associated with an attached CPE when a valid service profile identifier (SPID) is programmed into the CPE. The SPID contains the DN of the user; therefore, the appropriate service order profile (USOP) can be associated with the CPE.

1.4 Equipment Numbers (ILEN|LCEN|LCKEN)

The line termination equipment numbers (LCEN), the line circuit equipment number (LCKEN), or the IDCU line equipment number (ILEN) may be used to identify a particular DSL. This identifier is sufficient for single mode LPBK testing of particular DSL channels using any available termination (excluding the CPE) or to perform a mismatch or CRC test. These external identifiers are NOT sufficient when a particular DSL user must be identified.

In such cases, a valid TEI may be submitted (in addition), to complete the user/equipment identification.

1.4.1 Terminal Endpoint Identifier (TEI)

The TEI is used to identify a specific CPE that is attached to a DSL. Up to eight CPE may be simultaneously connected to a multipoint DSL. When a CPE is plugged in, the switch assigns a unique number to that CPE. The number, which can range from 0 to 126, is called a TEI. Each time a CPE is disconnected and then reconnected to the switch, a different TEI will be assigned.

The presence of a CPE on the T-interface is acknowledged when the switch assigns that CPE a TEI. If the CPE is plugged in and a TEI is not assigned, the CPE will be inoperative. The assigned TEIs can be obtained using the OP:CPE input message.

For TST:DSL, the primary purpose for using a TEI on input, is to identify a specific CPE for LPBK testing; however, the TEI can also be used to identify a particular user of the DSL, if the associated CPE is bound. If the CPE is cut off from the switch for a period of time, the CPE will request a new TEI. This can occur when long duration D-channel LPBK or metallic tests are performed.

1.4.2 CPE binding

Binding is the process of formally associating a particular USOP with individual CPE. When CPE is "bound", the customer is allowed to access a predefined set of subscribed services with that CPE. Specifically, the communication services for which the customer/user is periodically billed.

Binding on a single-point/point-to-point DSL occurs automatically, after the CPE is connected and assigned a TEI. This is possible because there can only be one active (CSV|CSD) user on this type of DSL.

On a multi-point DSL there can be eight (CSV|CSD) users. When CPE are connected, TEIs are assigned; however, the DSL users cannot be associated with specific CPE. Each user is "bound" to specific CPE when a valid SPID is programmed into the CPE. The SPID contains the DN of the user; therefore, the appropriate USOP can be
associated with the CPE and on input, a OE number with a bound TEI can be used to derive the user DN. A CPE can be "bound" to set of "default services" (that is, if defined for the DSL). In this case, a specific DSL user has not been bound to the CPE.

1.5 CONCURRENT DSL ACTIVITIES

A TST:DSL procedure can coexist with other DSL maintenance procedures or customer calls. A TST:DSL procedure will only seize control (that is, take ownership) of DSL resources that are required to complete the specified test. For example, if TST:DSL is to evaluate the B1-channel, the D-channel and B2-channel may be free to process customer calls or perform other maintenance activities. Examples of other maintenance activities are RMV:LINE, RMV:CPE or another TST:DSL request.

When customer service must be blocked The customer impact associated with testing can be reduced or eliminated through the use of

1.5.1 DSL Resource Ownership

For TST:DSL, the scope of DSL ownership required is determined by the DSL channels to be tested, as well as the hardware that must be used. For digital LPBK testing, the hardware unit providing the LPBK termination may not be capable of looping back individual DSL channels. In such a case, all DSL channels must always be placed in LPBK; therefore, all DSL channels must be owned by the test procedure. Such a limitation would be evident when an individual channel is tested, as all DSL channels would be blocked for testing.

To determine the DSL ownership required for a test request, the capabilities of the unit providing the LPBK termination must be understood. This information is provided in the TST:DSL input manual for each unit, under the TERM parameter. Consider the port ownership required on an ANSI® DSL given the following test:

\[
\text{TST:DSL, DN=X, CH=D, TERM=NT1;}\]

The input manual indicates that the ANSI® NT1 is capable of providing a LPBK on one or both B-channels or on all DSL channels. If the D-channel must be tested, all DSL channels must be looped back at the NT1; therefore, all DSL channels must be owned by the test procedure (albeit, only the D-channel is tested).

Testing on the D-channel will always require the test procedure to take ownership of all circuit switched (CS) B-channels. Call setup procedures are performed in-band on the D-channel; therefore, when the D-channel is tested, the CS B-channels cannot be used for customer calls. This is event given the following test:

\[
\text{TST:DSL, DN=X, CH=D, TERM=LT;}\]

The input manual indicates that the LT is capable of providing a LPBK on any DSL channel or all DSL channels. In addition, a LPBK terminations may be selectively removed. The LT hardware attributes do not require that CS B-channels be owned by the test procedure; however, the “testing begins” message will indicate that CS B-channels are owned.

**NOTE:** If a PPB-channel is populated, it is not owned by the test procedure. The PPB service does not require use of the D-channel for call setup (signaling is in-band).

For ANSI® DSLs, the hardware units that provide LPBK terminations are resources that can be owned by a test procedure. If a test procedure owns the ANSI® NT1, subsequent procedures requiring control of the NT1 will camp-on (that is, wait in line) for ownership of that resource. Consider the following test sequence on an ANSI® DSL:
The input manual indicates that for ANSI® NT1 requests to remove a LPBK condition, all DSL channels (looped back) will be affected. Given this hardware restriction, if both requests where allowed to proceed, the first request to complete would unloop the NT1 on all channels. To eliminate potential conflict, the second request will camp-on for ownership of the NT1.

On ANSI® DSLs, orders to provide LPBKs within specific units on the loop are transmitted on the embedded operations channel (EOC). This channel can only be used by one procedure at a time; therefore, to allow other procedures access, the EOC resource is released after use. For LPBK testing the EOC is owned only while a request to establish or remove a LPBK is in progress. Consider the following sequence of maintenance requests that will run concurrently:

```
TST:DSL,DN=X,TEST=CRC;
TST:DSL,DN=X,CH=B1,TERM=CU3;
TST:DSL,DN=X,CH=B2,TERM=LT;
TST:DSL,DN=X,TEST=CRC,DUR=0,V;
```

In the above test sequence, a CRC test, a B1 CU3 LPBK test, a B2 LT LPBK test, and the PM counts at the CUs and LT are being read concurrently. In this case, to avoid EOC camp-on, reading the PM counts at the CUs would have to be done last, as the use of the EOC is required for the duration of the PM read. The other tests only need the EOC for a short period of time.

In general, if required DSL resources are unavailable (such as, B-channel, NT1, EOC, and so forth), the associated maintenance procedure will camp-on for ownership.

### 1.5.2 AMI N-Channel

The N-Channel is used to communicate with transmission equipment on the AMI DSL loop. Specifically, TST:DSL uses the N-channel to communicate with the NT1 and populated CUs. The implementation of the N-channel is similar to other AMI DSL channels; however, the N-channel is used solely for maintenance purposes.

The N-Channel supports setting up and removing LPBKs and to administer the layer 1 protocol.

### 1.5.3 ANSI® Embedded Operations Channel (EOC)

The EOC is used to communicate with ANSI® NT1s and CUs. The implementation of the EOC is similar to other ANSI® DSL channels; however, the EOC is used solely for maintenance purposes.

The EOC is used to set up LPBKs, reset PM counts, read PM counts, request bad CRC from the NT1, remove LPBKs, turn off the request for bad CRC, and perform a CU PM interval freeze operation (that is, shift the "current" PM counters to the "previous" PM counters in the CU and then reset the "current" PM counters in the CU).

Concurrent testing at the NT1 and CUs for ANSI® U-DSLs is possible because the EOC operations are held active by the NT1 or CU. Once the operation is active, the EOC is available for other operations. For AMI U-DSLs, N-channel operations at the NT1 and CUs can only be held active by the LT. This ties up the N-Channel for the duration of the operation. Thus, concurrent operations at the NT1 or CU for AMI U-DSLs are not possible.

### 1.5.4 EOC Camp-on
The EOC channel is generally used for very brief periods to set up or tear down an operation. The EOC is a system resource. As such, each test must wait its turn to gain access to it. Most operations only require use of the EOC for a few seconds. Reading CU PM counts, however, nominally takes about 25 seconds (the time to read current and previous PM counts for 6 CUs). This means other tests may camp on for use of the EOC. If the camp-on is required to set up a test, a camp-on message will be printed. If the camp-on is required to end a test, a camp-on message is not printed. However, if the camp-on fails in this later case, a failing test status “CANNOT RE-GAIN EOC RSC” is printed. In critical cases (like LPBKs), the test will preempt for the EOC so that the LPBK can be removed. An INTERRUPT string is printed on the TST:DSL output message to indicate that a test could not terminate normally. The TST:DSL output message manual specifies procedures for handling these situations.

Even if the EOC channel is idle, some tests cannot be run at the same time because they require the same system resources for the duration of the test. For example, a B1 LPBK at the NT1 and the LT is not possible as they require the same B-channel resource. In these cases, the tests will camp-on for the specified CAMP time.

1.6 LOOP-BACK TESTING

Depending on the options selected, this message will perform a digital loop-back (LPBK) test on all the assigned D- and B-channels or only a single assigned channel.

1.6.1 LPBK Terminations (TERM)

A LPBK test is performed by first establishing a LPBK at the specified termination. The termination is entered with the TERM option. Then test data is transmitted over the channel(s) to be tested. The returned data from the LPBK is verified and the test results are printed.

A LPBK termination may be placed at the assigned protocol handler (PH), the DSL LT, channel units (CU1 to CU6), the network termination 1 (NT1), or the customer premises equipment (CPE). Testing to externally applied LPBK terminations at the customer premises is also supported.

1.6.2 Acceptable Bit Error Rate (ABER)

The pass/fail criteria of any CS digital test may be modified using the acceptable bit error rate (ABER) input parameter. This parameter is particularly useful when using the sectionalization (SECT) option to do fault isolation (refer to the FAULT ISOLATION TESTING section below for details).

The ABER is not used to specify the pass/fail criteria for PS digital tests. For PS tests, the pass/fail criterion is fixed. If fewer than 98% of the transmitted packets are received without error, then the test is considered failed.

1.6.3 Protocol Error Record (PER) Interactions

When performing any form of loopback testing, the generation of PERs will be inhibited for the duration of the test. After the test has been completed, PER generation will remain inhibited for a period of three to six minutes. Use the ALW:ALE input message to allow PER generation prior to the expiration of this period.

1.7 FAULT ISOLATION TESTING

Three distinct testing modes are possible. These modes determine how many terminations are to be used during testing:

- Default (single termination used)
- Sectionalization (SECT - all terminations may be used)
- Sequential (SEQ - all terminations may be used)
The default mode tests the single termination (that is, CPE, NT1, CUs, LT, or PH) specified. The remaining two modes test multiple terminations.

1.7.1 Elapsed Testing Time

The maximum duration for each termination of a SECT or SEQ test is one hour. Therefore, the maximum elapsed time for a SECT or SEQ test is ten hours. This is the time to test all possible terminations (CPE, NT1, CU6, ..., CU1, LT, and PH).

1.8 MISMATCH TEST

The mismatch test (TEST=MSMTCH) will detect a mismatch of an LT and the first metallic termination beyond the LT on U-DSLs. This test is used to ensure compatibility between the LT and the first unit (CU or NT1) connected to the LT. This message cannot be used to detect NT1 mismatches when CUs are present.

The mismatch test also tests for loop resistance that is too high or too low between the tip and ring of the LT connected to the first metallic termination (NT1 or CU), and the mismatch test tests for loop resistance that is too low between tip and ground or ring and ground.

For AMI U-DSLs, the mismatch test will also detect a tip and ring reversal at the NT1 (when no CUs are present). Tip and ring reversals at CUs do not matter.

Mismatch detection is possible even if the first termination (NT1 or CU) is powered down (but still connected to the loop).

1.8.1 Mismatch Testing Performed After Certain Loop-backs.

There are many conditions that can cause layer 1 (U-interface) to be down. These include certain metallic loop faults, NT1 "quiet mode", faulty equipment (NT1, CUs, LT), "mismatch", etc. Since some of these conditions are checked by the mismatch test, the mismatch test is automatically run whenever layer 1 is found down at the U-interface and a LPBK of all channels has been requested at an NT1 or CU. Any problems found by the mismatch test will be printed on the ROP.

As a positive indication that the mismatch test was run as part of a LPBK test, a "test qualifier" of the form (MMT xxxx) is printed. Refer to the TST:DSL output message for details.

1.8.2 Mismatch Test Results

For cases when the mismatch test detects high or low loop resistance, it is recommended that voltage, resistance, and capacitance metallic tests be run on the loop to determine the specific characteristics of any metallic loop fault that may be present. Metallic loop tests are available using mechanized loop testing (MLT) systems, or they are available from the trunk and line work station (TLWS) metallic testing menu 5600/5700 (5E10+).

1.8.3 Mismatch Condition - Exists

If the mismatch test determines that an LT or NT1/CU mismatch exists, then the out-of-service port status will be changed to reflect the mismatch condition.

1.8.4 Mismatch Condition - Does Not Exist

If the mismatch test determines that a mismatch does not exist but layer 1 at the"U-interface is down", then the out-of-service port status may be changed to indicate that the "NT1 power is lost" or the "U-interface is down". The choice depends on two things:

- What the port status was prior to running the mismatch test and
- Whether the mismatch test found that the loop between the LT and the first metallic termination (NT1 or CU1) was open or connected.

If the out-of-service port status was "dying gasp under study" and the loop was "connected", then the dying gasp is assumed to have been received from the NT1 due to a loss of power to the NT1. For this case, the port status will be changed to "NT1 power is lost". If the loop is faulty (that is, one that is not properly connected or one that is opened), it is assumed that any information (dying gasp or otherwise) cannot be received from the NT1. For this case, the "dying gasp under study" indication will be replaced with "U-interface is down", as the dying gasp is assumed to have been erroneously generated from the faulty loop.

The technique used by the mismatch test to evaluate the out-of-service "dying gasp under study" port status works even when BRITE CUs are equipped on the U-DSL. This is because the BRITE CU will ignore any dying gasp indication at the instant that it detects a faulty loop (for example, the loss of the U-interface between the NT1 and the last CU). This means that if a proper connection exists between the LT and CU1, then any dying gasp indication received by the LT from CU1 must have originated from the NT1 prior to the loss of the U-interface.

If the port status was "Mismatch", then the port status would be changed to "U-interface is down". If the port status was anything else, then the port status would be unchanged.

The key is that the out-of-service port statuses (that is, dying gasp under study, NT1 power is lost, mismatch, and U-interface is down) indicate that the U-interface is down. The "NT1 power is lost" signifies that the loss of the U-interface is likely due to customer premises equipment (that is, NT1) problems rather than network (that is, 2-wire loop, CU or LT) problems. Other statuses may indicate customer premises equipment (that is, CPE or NT1) or network equipment problems.

**NOTE:** "U-interface is down" includes the out-of-service port statuses of UINTF, LINKx, TESTx, NTPWR, and so forth. Refer to the APP:PORT-STATUS appendix in Appendixes section of the Output Message manual for more information.

### 1.9 CORRUPT CRC TESTING

The PM freeze interval boundary refers to the PM report interval defined on the RC/V View 8.1 (OFFICE PARAMETERS). The LT current hour PM counts are flagged as corrupt. There is no way to indicate when the CU PM counts are corrupt.

The PM counts are left with the values at the end of the test. This is to allow the PM counters to be read again if desired. The user can clear these PM counts if it is not desirable for performance monitoring to continue based on the values of the counters at the end of the test. The EXC:ALE-RESET input message can be used to clear the PM counts.

The CRC testing procedure includes the following operations:

- Clears the CU interval PM counts (current and previous),
- Clears the LT hour PM counts (current only),
- Marks the current hour LT PM counts as corrupt,
- Sends bad (corrupted) CRC downstream,
- requests the NT1 to send bad CRC upstream (the NT1 must be functional for the CRC test to work),
- Prevents the hourly and interval PM freeze from occurring on this DSL should the CRC test cross a
PM freeze (hour or interval) boundary while the test is running,
- Runs the test for the duration (DUR) specified then stops the test (that is, stop sending bad CRC to the NT1 and requests that the NT1 stop sending bad CRC to the switch), and
- Reads the PM counts and prints the results,
- The PM counts are left with the values at the end of the test.

1.9.1 Interpreting CRC Test Results

The corrupt CRC test results are output in tabular format detailing both the previous and current hour PM counts for the LT. If the V (verbose) parameter is selected, counts will be printed for each equipped channel unit. The PM counts for the upstream direction (that is, NT1 to the LT) and the downstream direction (that is, LT to the NT1) of transmission include numerical results for block errors (BE), severe errored seconds (SES) and errored seconds (ES).

The LT previous hour PM counts, which are displayed on output, will not be modified by the CRC test. In addition, the CU previous interval PM counts should remain at zero. The current PM counts at the LT and CUs will vary based on the duration (DUR) of CRC testing.

The CRC test generates one BE for every ANSI® superframe (12 milliseconds) transmitted upstream and downstream. This means that the BE counter will accumulate at a rate of 83.3 block errors per second. The ES counter will increment once for every second the test runs. The BE count should be approximately 83.3 times the ES count. The ES and SES should be very nearly equal (refer to the WARNING below).

A severely errored second (SES) occurs when a given number of bit errors (BE)s occur in one second. For CUs, the allowable number of BEs is fixed at 3/sec. For LTs, the number of allowable BEs/sec is recent changeable [refer to RC/V View 8.1 (OFFICE PARAMETERS)]. The CU SES counts and the LT SES counts can only be correlated, if the allowable BEs/sec is the same in each case.

1.9.2 Reading PM counts

If a CRC test duration is specified to be zero seconds, no CRC test will take place; however, a the PM counts will be read and output. This is useful for obtaining the current PM counts prior to testing or obtaining the counts associated with a CRC test that has just previously been run. The success/failure STATUS associated with reading of the PM counts is output, in addition to the equipped channel units and the elapsed time (ET) taken to read the CU PM counts. The presence of a satellite link may be deduced using the ET output parameter, as the ET will be greater when a satellite transmission link is present.

The PM counts at the CU or LT are not altered by this request. The EXC:ALE input message may also be used to read the PM counts.

1.9.3 CRC Testing and PM Alerts

The purpose of CRC testing is to verify that the performance monitoring (PM) counters at the LT and the CUs can detect and maintain a record of BEs. In addition, if the reporting of PM alerts has been turned on, a PM alert (REPT ALE LEVEL 1 output message) should be triggered if the CRC test duration (DUR) is long enough to cause an LT PM count threshold to be reached.

There are several reasons why it may not be possible to trigger a PM alert. In general, alerts will not be fired if PM has been turned off or an alert has already been triggered. Only one PM alert can be triggered per hour (for hourly alerts) and only one PM alert can be triggered per day (for daily alerts). A CRC test cannot be used to trigger an alert, if the alert has already been triggered for the associated day or hour. Once PM has been turned off, PM counts
will not be incremented; therefore, PM will not be triggered. The PM can be turned off on a specific LT for the following reasons:

- U-interface is down at the LT (port status states: UINTF, MSMTCH, etc.).
- The LT is out-of-service (OOS).
- U-DSL D-channel has been manually removed OOS.
- The DSL is unassigned.
- PM has been turned off for the PM group [RC/V View 22.15 (PM THRESHOLD GROUP)].
- PM has been turned off for the SM with the INH:ALE input message using the LEVEL1, SM=a options.
- PM has been turned off for the Office [RC/V View 8.1 (RC OFFICE PARAMETERS)].

The PM threshold information is available in the following recent change (RC) views:

- RC/V View 22.15 (PM - THRESHOLD GROUP) shows the PM threshold values for a specific PM group.
- RC/V View 23.2 (DIGITAL SUBSCRIBER LINE - NON BRC S), RC/V View 23.8 (DSL/BRCs ASSIGNMENT) shows the PM group assigned to a specific U-DSL.
- RC/V View 22.7 (ISLU LINE CARD) shows the PM group assigned to a specific U-DSL.

1.10 EQUIPPED CHANNEL UNITS

It is not possible to determine the presence of AMI CUs, as there is no internal record of CUs and the switch interface does not support responses to CU requests; however, the ANSI® U-DSL interface standard allows all requests to be acknowledged.

For ANSI® U-DSLs, the presence of CUs is detected by polling for each possible CU. In general, the number equipped CUs (EQCU) is provided in the output for all test types.

If the EQCUs cannot be determined, the EQCU output will indicate the faulty portion of the transmission link. For example, if the U-interface beyond CU2 is down, then the equipped CUs cannot be determined; however, information will be output to identify link two as faulty (that is, EQCU=LINK2). This information is similar to the port status information provided by the OP:ST-PORT output message. Refer to the TST:DSL output message for details.
1. APPENDIX: EXPLANATION OF RESPONSES

The following is a list of system responses that are used with many of the 5ESS® switch generic utilities (UT) input requests. The acknowledgements are used when the syntax of a request is valid, but the request has been denied. Additional information is printed out to explain why the request was denied. Not all responses apply to all requests.

**IP**
- = In progress. The request was received at the destination and initiated.

**NA**
- = No acknowledgment. A symbolic look-up is in progress for a unit serviced by the generic utilities input requests. The request is being held in the buffer and will be acted upon when the symbolic look-up has been completed.

**NG**
- = No good. The request syntax is valid but the request conflicts with current system or equipment status.

**NG - CM ISOLATED FROM AM**
- The input request can not be sent at this time because the AM is isolated from the CM. This situation affects all of the UT manually entered input requests. The request must be run again after communications are re-established.

**NG - COMMAND MUST BE PART OF A CLAUSE**
- The input request must be part of a clause. The request can not stand alone.

**NG - COMMAND NOT ALLOWED FOR UNIT TYPE**
- The request can not be used for this type of unit.

**NG - COULD NOT RECOGNIZE MESSAGE**
- This request was passed to the UT controlling process but the structure is not recognized by the UT code.

**NG - INTERNAL ERROR**
- Requests to this processor must be immediate requests and not part of a clause.

**NG - ILLEGAL FPC NUMBER**
- The requested FPC number does not exist.

**NG - ILLEGAL MMP NUMBER**
- The requested MMP number does not exist.

**NG - ILLEGAL PCR NUMBER**
- The requested processor does not exist or is not in a valid state for operation.

**NG - ILLEGAL PPC NUMBER**
- The requested PPC number does not exist.

**NG - ILLEGAL SM NUMBER**
- The requested SM does not exist or is not in a valid state for operation.

**NG - NO OPERATIONAL PCR IN SPECIFIED RANGE**
- The requested range of processors does not contain any units which have an operational or special grow state.

**NG - NO OPERATIONAL SM IN SPECIFIED RANGE**
- The requested range of SMs does not contain any operational or special grow SMs.

**NG - PCR DOES NOT MATCH PCR IN THE PREVIOUS COMMAND**
- This request, being part of a clause, must be sent to the same processor as the request that preceded it.
NG - SM DOES NOT MATCH SM IN PREVIOUS COMMAND = The syntax for the request is correct but a series of requests is being entered at this terminal for a different SM. The clause is still active and waiting to be finished and this request has not been included in the clause.

NG - SM NOT SPECIFIED = This request is part of a clause but is not being allowed because the SM number is not indicated. The request needs to be re-entered with the desired SM number.

OK = The request syntax is correct, the processor is available, and the request has been accepted and will be processed.

PF = Printout follows. A corresponding output message will follow in response to the request.

RL = Retry later. System resources could not be allocated to process the request.

RL - ANOTHER TERMINAL IN MIDDLE OF CLAUSE = The requested processor is being set-up with a clause from another terminal.

RL - PCR IS ISOLATED = The requested processor is valid but communications were not established at the time of the request.

RL - SM IS ISOLATED = The requested SM is a valid processor but communications were not established at the time of the request.

ERROR = The request syntax was correct but UT does not recognize the request.
6. ABT
ABT:AIUCOM

Software Release: 5E14 and later
Command Group: SM
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Requests that actions be aborted on an access interface unit common data and control controller (COMDAC).

NOTE: Execution of this message may require further action to put the unit into a valid state. Refer to the REFERENCES section of this manual page.

WARNING: This message causes the intended process to be purged. It also causes a SMABTREQ assert and a variable number of audit reports due to the purge. It is recommended that the STP verb be used under normal circumstances; ABT should only be used if the STP message fails.

2. FORMAT

ABT:[a,]AIUCOM=b-c-d;

3. EXPLANATION OF MESSAGE

a = Action to be aborted. Valid value(s):
  DGN = Diagnose.
  RMV = Remove.
  RST = Restore.
  SW = Switch.

NOTE: The default is the action currently executing.

b = Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

c = AIU number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

d = COMDAC number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

NG = No good. The message form is valid, but the request conflicts with the current status.

PF = Printout follows. Followed by the ABT:AIUCOM output message.

5. REFERENCES
Input Message(s):

DGN: AIUCOM
SW: AIUCOM
OP: DMQ-CM-SM
OP: OOS
RMV: AIUCOM
RST: AIUCOM

Output Message(s):

ABT: AIUCOM

Input Appendix(es):

APP: RANGES

MCC Display Page(s):

1320,y,x (AIU SUMMARY)
ABT:AIULC

Software Release: 5E14 and later
Command Group: SM
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Requests that actions be aborted on an access interface unit (AIU) line circuit (LC).

NOTE: Execution of this message may require further action to put the unit into a valid state. Refer to the REFERENCES section of this manual page.

WARNING: This message causes the intended process to be purged. It also causes a SMABTREQ assert and a variable number of audit reports due to the purge. It is recommended that the STP verb be used under normal circumstances; ABT should only be used if the STP message fails.

2. FORMAT

ABT:[a,]AIULC=b-c-d-e;

3. EXPLANATION OF MESSAGE

a = Action to be aborted. Valid value(s):
   DGN = Diagnose.
   RMV = Remove.
   RST = Restore.

NOTE: The default is the action currently executing on the LC.

b = Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

c = AIU number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

d = LP number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

e = LC number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

NG = No good. The message form is valid, but the request conflicts with the current status.

PF = Printout follows. Followed by the ABT:AIULC output message.
5. REFERENCES

Input Message(s):

DGN:AIULC
OP:DMQ-CM-SM
OP:OOS
RMV:AIULC
RST:AIULC

Output Message(s):

ABT:AIULC

Input Appendix(es):

APP:RANGES

MCC Display Page(s):

1323,y,z,x (AIU AP STATUS)
ABT:AIULP

**Software Release:** 5E14 and later  
**Command Group:** SM  
**Application:** 5  
**Type:** Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Requests that actions be aborted on an access interface unit (AIU) line pack (LP).

**NOTE:** Execution of this message may require further action to put the unit into a valid state. Refer to the REFERENCES section of this manual page.

**WARNING:** This message causes the intended process to be purged. It also causes a SMABTREQ assert and a variable number of audit reports due to the purge. It is recommended that the STP verb be used under normal circumstances; ABT should only be used if the STP message fails.

2. FORMAT

ABT: [a,]AIULP=b-c-d;

3. EXPLANATION OF MESSAGE

a = Action to be aborted. Valid value(s):

DGN = Diagnose.
RMV = Remove.
RST = Restore.

**NOTE:** The default is the action currently executing on the LP.

b = Switching module (SM) number. Refer to the APP: RANGES appendix in the Appendixes section of the Input Messages manual.

c = AIU number. Refer to the APP: RANGES appendix in the Appendixes section of the Input Messages manual.

d = LP number. Refer to the APP: RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

NG = No good. The message form is valid, but the request conflicts with the current status.

PF = Printout follows. Followed by the ABT:AIULP output message.

5. REFERENCES

Input Message(s):

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DGN: AIULP
OP: DMQ–CM–SM
OP: OOS
RMV: AIULP
RST: AIULP

Output Message(s):

ABT: AIULP

Input Appendix(es):

APP: RANGES

MCC Display Page(s):

1320.y,x (AIU SUMMARY)
1323.y,z,x (AIU AP STATUS)
ABT:AIUPIDB

Software Release: 5E14 and later
Command Group: SM
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Requests that actions be aborted on an access interface unit (AIU) timeslot group (TSGRP).

NOTE: Execution of this message may require further action to put the unit into a valid state. Refer to the REFERENCES section.

WARNING: This message causes the intended process to be purged. It also causes a SMABTREQ assert and a variable number of audit reports due to the purge. It is recommended that the STP verb be used under normal circumstances; ABT should only be used if the STP message fails.

2. FORMAT

ABT: [a,]AIUTSGRP=b-c-d-e;

3. EXPLANATION OF MESSAGE

a = Action to be aborted. Valid value(s):
   DGN = Diagnose.
   RMV = Remove.
   RST = Restore.

NOTE: The default is the action currently executing on the TSGRP.

b = Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

c = AIU number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

d = Common data and control circuit (COMDAC) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

e = TSGRP number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

NG = No good. The message form is valid, but the request conflicts with the current status.

PF = Printout follows. Followed by the ABT:AIUTSGRP output message.
5. REFERENCES

Input Message(s):

DGN:AIUPIDB
OP:DMQ-CM-SM
OP:OOS
RMV:AIUPIDB
RST:AIUPIDB

Output Message(s):

ABT:AIUTSGRP

Input Appendix(es):

APP:RANGES

MCC Display Page(s):

1321.y,x (AIU TSGRP SUMMARY)
ABT:AIURG

Software Release: 5E14 and later
Command Group: SM
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Requests that actions be aborted on an access interface unit (AIU) ring generator (RG).

NOTE: Execution of this message may require further action to put the unit into a valid state. Refer to the REFERENCES section.

WARNING: This message causes the intended process to be purged. It also causes a SMABTREQ assert and a variable number of audit reports due to the purge. It is recommended that the STP verb be used under normal circumstances; ABT should only be used if the STP message fails.

2. FORMAT

ABT: [a,] AIURG=b-c-d;

3. EXPLANATION OF MESSAGE

a = Action to be aborted. Valid value(s):
   DGN = Diagnose.
   RMV = Remove.
   RST = Restore.

   NOTE: The default is the action currently executing on the RG.

b = Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

c = AIU number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

d = RG number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

NG = No good. The message form is valid, but the request conflicts with the current status.

PF = Printout follows. Followed by the ABT:AIURG output message.

5. REFERENCES

Input Message(s):
DGN: AIURG
OP: DMQ–CM–SM
OP: OOS
RMV: AIURG
RST: AIURG

Output Message(s):
ABT: AIURG

Input Appendix(es):
APP: RANGES

MCC Display Page(s):
1320,y,x (AIU SUMMARY)
1322,y,x (AIU RG STATUS)
ABT:ALIT

Software Release: 5E14 and later
Command Group: SM
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Requests that actions on the automatic line insulation test (ALIT) circuit at the specified location be aborted.

WARNING: This message causes the intended process to be purged. It also causes a SMABTREQ assert and a variable number of audit reports due to the purge. It is recommended that the STP verb be used under normal circumstances; ABT should only be used if the STP message fails.

2. FORMAT

ABT: [a,]ALIT=b-c-d-e;

3. EXPLANATION OF MESSAGE

a = Action being aborted (the default is the action currently executing on the ALIT). Valid value(s):
   DGN = Diagnose.
   EX = Exercise.
   RMV = Remove.
   RST = Restore.

b = Switching module number.

c = Metallic service unit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

d = Service group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

e = Metallic service unit board number.

4. SYSTEM RESPONSE

NG = No good. The request has been denied because of a conflict with current status.

PF = Printout follows. Followed by the ABT:ALIT output message.

5. REFERENCES

Input Message(s):
   DGN:ALIT
   EX:ALIT
RMV: ALIT
RST: ALIT
STP: ALIT

Output Message(s):

ABT: ALIT

Input Appendix(es):

APP: RANGES
ABT:AMATAPE

Software Release: 5E14 and later
Command Group: AMA
Application: 5
Type: Input

1. PURPOSE

Requests that the tape writing process be aborted. Any automatic message accounting (AMA) data previously written to the tape will be lost. This data, however, is retained on the AMA disk.

2. FORMAT

ABT:AMATAPE[,ST1|,ST2];

3. EXPLANATION OF MESSAGE

ST1 = Used if AMA data goes to the ST1 data stream.
ST2 = Used if AMA data goes to the ST2 data stream.

NOTE: For a single data stream office, the stream does not have to be specified as either an ST1 or ST2. However, for a dual stream office, the stream must be specified as either an ST1 or ST2.

4. SYSTEM RESPONSE

NG = No good. The teleprocessing option is in effect, or if the tape option is in effect but tape writing is not in progress, or the stream checks could have failed.

PF = Printout follows. Followed by a REPT:AMATAPE-ERR message or an audit message if any invalid data was encountered while processing the input message.

RL = Retry later. A message cannot be sent to the AMA tape writer to abort the session.

5. REFERENCES

Input Message(s):

CPY:AMATAPE
OP:AMA-STREAM
STP:AMATAPE

Output Message(s):

REPT:AMATAPE-ERR
ABT:ASC

Software Release: 5E14 and later
Command Group: SM
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Requests that maintenance actions on the remote switching module (RSM), optical remote switching module (ORM), or the two-mile remote switching module (TRM) alarm and status circuit (ASC) be aborted.

WARNING: This message causes the intended process to be purged. It also causes a SMABTREQ assert and a variable number of audit reports due to the purge. It is recommended that the STP verb be used under normal circumstances; ABT should only be used if the STP message fails.

2. FORMAT

ABT:a, ASC=b;

3. EXPLANATION OF MESSAGE

a
   = Action to be aborted (default is the action currently executing on the ASC). Valid value(s):
   DGN   = Diagnose.
   EX    = Exercise.
   RMV   = Remove.
   RST   = Restore.

b
   = Switching module (SM) number.

4. SYSTEM RESPONSE

NG  = No good. Request denied because of a conflict with current status.
PF  = Printout follows. Followed by the ABT:ASC output message.

5. REFERENCES

Input Message(s):
   DGN:ASC
   EX:ASC
   RMV:ASC
   RST:ASC

Output Message(s):
   ABT:ASC
ABT:BTSR

Software Release: 5E14 and later
Command Group: SM
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Aborts actions on the bootstrapper board (BTSR) at the specified location.

WARNING: This message causes the intended process to be purged. It also causes an SMABTREQ assert and a variable number of audit reports due to the purge. It is recommended that the STP verb be used under normal circumstances; ABT should only be used if the STP message fails.

2. FORMAT

ABT: [a,] BTSR = b;

3. EXPLANATION OF MESSAGE

a = Action being aborted (default is the action currently executing on the BTSR). Valid value(s):
   DGN = Diagnose.
   EX = Exercise.
   RMV = Remove.
   RST = Restore.
   TST = Test.

b = Switching module (SM) number.

4. SYSTEM RESPONSE

NG = No good. The request has been denied. The message form is valid, but the request conflicts with current status.

PF = Printout follows. Followed by ABT:BTSR output message.

RL = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

Input Message(s):

DGN:BTSR
EX:BTSR
RMV:BTSR
RST:BTSR
TST:BTSR
Output Message(s):

ABT: BTSR
ABT:CDFI

Software Release: 5E14 and later
Command Group: SM
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Aborts maintenance actions on an inter-remote switching module (RSM) communication link digital facilities interface (CDFI) circuit.

WARNING: This message causes the intended process to be purged. It also causes a SMABTREQ assert and a variable number of audit reports due to the purge. It is recommended that the STP verb be used under normal circumstances; ABT should only be used if the STP message fails.

2. FORMAT

ABT: [a,] CDFI = b-c-d;

3. EXPLANATION OF MESSAGE

a = Action being aborted (default is the action currently executing on the CDFI). Valid value(s):
   DGN = Diagnose.
   EX  = Exercise.
   RMV = Remove.
   RST = Restore.

b = Switching module (SM) number.

c = Digital line and trunk unit (DLTU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

d = CDFI number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

NG = No good. The message syntax is valid, but the request conflicts with current system or equipment status. May also include:
   NOT STARTED UNIT IN GROWTH STATE
   SM DOES NOT EXIST
   SM UNEQUIPPED
   UNIT DOES NOT EXIST

PF = Printout follows. An ABT:CDFI output message follows in response to the request.

RL = Retry later. The request cannot be executed now due to unavailable system resources.
5. REFERENCES

Input Message(s):

DGN: CDFI
EX: CDFI
RMV: CDFI
RST: CDFI

Output Message(s):

ABT: CDFI

Input Appendix(es):

APP: RANGES
ABT:CDI

Software Release: 5E14 and later
Command Group: SM
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Aborts actions on the control data interface (CDI) at the specified location.

WARNING: This message causes the intended process to be purged. It also causes a SMABTREQ assert and a variable number of audit reports due to the purge. It is recommended that the STP verb be used under normal circumstances; ABT should only be used if the STP message fails.

2. FORMAT

ABT: [a,]CDI=b-c-d;

3. EXPLANATION OF MESSAGE

a
   = Action being aborted (the default is the action currently executing on the CDI). Valid value(s):
   DGN = Diagnose.
   EX  = Exercise.
   RMV = Remove.
   RST = Restore.

b
   = Switching module number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

c
   = Trunk unit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

d
   = Service group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

NG
   = No good. The request has been denied because of a conflict with current status.

PF
   = Printout follows. Followed by the ABT:CDI output message.

5. REFERENCES

Input Message(s):

DGN:CDI
EX:CDI
RMV:CDI
**ABT:CLNK**

**Software Release:** 5E14 and later  
**Command Group:** CM  
**Application:** 5  
**Type:** Input

1. **PURPOSE**

Aborts actions on the specified communication link (CLNK).

2. **FORMAT**

   ABT:a,CLNK=b-c-d-e;

3. **EXPLANATION OF MESSAGE**

   - **a** = Action being aborted. The default is the action previously requested on the specified unit. Valid value(s):
     - RMV = Remove.
     - RST = Restore.

   - **b** = Switching module (SM) number.

   - **c** = Office network and timing complex number.

   - **d** = Type of module message processor (MMP). Valid value(s):
     - 0 = MMP that handles the even control time slot associated with the SM.
     - 1 = MMP that handles the odd control time slot associated with the SM.

   - **e** = Message switch (MSGS) number.

4. **SYSTEM RESPONSE**

   - **NG** = No good. Request was invalid.

   - **PF** = Printout follows.

5. **REFERENCES**

   **Input Message(s):**
   
   - OP : DMQ
   - RMV : CLNK
   - RST : CLNK

   **Output Message(s):**
   
   - OP : DMQ
   - OP : DMQ-CM
   - OP : DMQ-SM
   - RMV : CLNK
RST:CLNK
ABT:CMP

Software Release: 5E14 and later
Command Group: CM
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Requests that actions on a communication module processor (CMP) be aborted (ABT).

WARNING: This message causes the CMP action to be killed. It is recommended that the stop (STP) verb be used under normal circumstances; ABT should only be used if the STP message fails.

2. FORMAT

ABT: [a,]CMP=b-c;

3. EXPLANATION OF MESSAGE

a = Action to be aborted. Valid value(s):
  DGN = Diagnose. (Not valid for CM3)
  EX = Exercise. (Not valid for CM3)
  RST = Restore.

Note: The default is all actions currently waiting or executing on the CMP.

b = Message switch side number.

c = CMP number.

4. SYSTEM RESPONSE

IP = In progress. The abort has been initiated. A completion message will be printed for the original request when the abort has been completed.

NG = No good. The request has been denied. The message syntax is valid, but the request could not be processed. Refer to the APP:CM-IM-REASON appendix in the Appendixes section of the Input Messages manual for a list of possible reasons for denying the request.

5. REFERENCES

Input Message(s):

  DGN: CMP
  EX: CMP
  OP: DMQ-CM-SM
  RST: CMP
STP: CMP

Input Appendix(es):

APP: CM–IM–REASON

Other Manual(s):
235-105-110  System Maintenance Requirements and Tools
235-105-220  Corrective Maintenance
235-105-250  System Recovery Procedures
ABT:DCLU

Software Release: 5E14 and later
Command Group: SM
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Aborts actions on a SLC®96 digital carrier line unit (DCLU).

WARNING: This message causes the intended process to be purged. It also causes a SMABTREQ assert and a variable number of audit reports due to the purge. It is recommended that the STP verb be used under normal circumstances; ABT should only be used if the STP message fails.

2. FORMAT

ABT: [a, ]DCLU=b-c-d;

3. EXPLANATION OF MESSAGE

a = Action to be aborted (default is the action currently executing on the DCLU). Valid value(s):
DGN = Diagnose.
EX = Exercise.
RMV = Remove.
RST = Restore.

b = Switching module (SM) number.

c = DCLU number.

d = Service group number.

4. SYSTEM RESPONSE

NG = No good. The request has been denied. The message form is valid, but the request conflicts with current status.

PF = Printout follows. The request was accepted. Output message ABT:DCLU, DGN:DCLU, EX:DCLU, RMV:DCLU, or RST:DCLU follows.

5. REFERENCES

Input Message(s):

DGN:DCLU
EX:DCLU
RMV:DCLU
RST:DCLU
Output Message(s):

ABT:DCLU
DGN:DCLU
EX:DCLU
RMV:DCLU
RST:DCLU
ABT:DCTUCOM

Software Release: 5E14 and later
Command Group: SM
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Requests that actions on the directly connected test unit common board (DCTUCOM) at the specified location be aborted.

WARNING: This message causes the intended process to be purged. It also causes a SMABTREQ assert and a variable number of audit reports due to the purge. It is recommended that the STP verb be used under normal circumstances; ABT should only be used if the STP message fails.

2. FORMAT

ABT: [a,] DCTUCOM=b-c;

3. EXPLANATION OF MESSAGE

a = Action being aborted. The default is the action currently executing on the DCTUCOM. Valid value(s):
   DGN = Diagnose.
   EX = Exercise.
   RMV = Remove.
   RST = Restore.

b = Switching module number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

c = Line unit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

NG = No good. The request has been denied because of a conflict with current status.
PF = Printout follows. Followed by the ABT:DCTUCOM output message.

5. REFERENCES

Input Message(s):
   DGN:DCTUCOM
   EX:DCTUCOM
   RMV:DCTUCOM
   RST:DCTUCOM
Output Message(s):
   ABT:DCTUCOM

Input Appendix(es):
   APP: RANGES
ABT:DCTUPORT

Software Release: 5E14 and later
Command Group: SM
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Requests that actions on the directly connected test unit port circuit (DCTUPORT) at the specified location be aborted.

WARNING: This message causes the intended process to be purged. It also causes a SMABTREQ assert and a variable number of audit reports due to the purge. It is recommended that the STP verb be used under normal circumstances; ABT should only be used if the STP message fails.

2. FORMAT

ABT:[a,]DCTUPORT=b-c-d;

3. EXPLANATION OF MESSAGE

a  = Action being aborted (the default is the action currently executing on the DCTUPORT). Valid value(s):
   DGN  = Diagnose.
   EX   = Exercise.
   RMV  = Remove.
   RST  = Restore.

b  = Switching module number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

c  = Directly connected test unit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

d  = Circuit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

   NG  = No good. The request has been denied because of a conflict with current status.
   PF  = Printout follows. Followed by the ABT:DCTUPORT output message.

5. REFERENCES

Input Message(s):
   DGN:DCTUPORT
EX:DCTUPORT
RMV:DCTUPORT
RST:DCTUPORT

Output Message(s):

ABT:DCTUPORT

Input Appendix(es):

APP:RANGES
1. PURPOSE

Requests that actions on the digital facility interface (DFI) at the specified location be aborted.

WARNING: This message causes the intended process to be purged. It also causes a SMABTREQ assert and a variable number of audit reports due to the purge. It is recommended that the STP verb be used under normal circumstances; ABT should only be used if the STP message fails.

2. FORMAT

ABT: [a,b,c,d];

3. EXPLANATION OF MESSAGE

a = Action being aborted (the default is the action currently executing on the DFI). Valid value(s):
   DGN = Diagnose.
   EX  = Exercise.
   RMV = Remove.
   RST = Restore.

b = Switching module number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

c = Digital line/trunk unit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

d = DFI number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

NG = No good. The request has been denied because of a conflict with current status.

PF = Printout follows. Followed by the ABT:DFI output message.

5. REFERENCES

Input Message(s):

   DGN:DFI
   EX:DFI
   RMV:DFI
RST:DFI
STP:DFI

Output Message(s):

ABT:DFI

Input Appendix(es):

APP:RANGES
ABT:DFIH

Software Release: 5E14 and later
Command Group: SM
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Aborts maintenance actions on a remote integrated services line unit (RISLU) host/remote digital facility interface circuit pair (DFIH).

WARNING: This message causes the intended process to be purged. It also causes a SMABTREQ assert and a variable number of audit reports due to the purge. It is recommended that the STP verb be used under normal circumstances; ABT should only be used if the STP message fails.

2. FORMAT

ABT: [a,]DFIH=b-c-d;

3. EXPLANATION OF MESSAGE

a = Action to be aborted. Valid value(s):
  DGN = Diagnose.
  EX  = Exercise.
  RMV = Remove.
  RST = Restore.

NOTE: The default is the action currently executing on the DFIH.

b = Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

c = RISLU digital line and trunk unit (DLTU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

d = DFIH number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

NG = No good. May also include:

  CONFLICT WITH UNIT STATE
  SM DOES NOT EXIST
  SM UNEQUIPPED
  UNIT DOES NOT EXIST

PF = Printout follows. An ABT:DFIH output message follows in response to the request.
RL = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

Input Message(s):

DGN:DFIH
EX:DFIH
RMV:DFIH
RST:DFIH

Output Message(s):

ABT:DFIH

Input Appendix(es):

APP:RANGES

Other Manual(s):
235-105-220 Corrective Maintenance
ABT:DFTAC

Software Release: 5E14 and later
Command Group: SM
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Requests that currently running actions be aborted without cleaning up on the distributing frame test access circuit (DFTAC).

This input message should be used only if STP:DFTAC has been attempted and has failed to terminate the previous action. Since both hardware and data may be left in an invalid state as a consequence of the ABT:DFTAC message, a number of other outputs, such as audits and asserts, may follow.

WARNING: This message causes the intended process to be purged. It also causes a SMABTREQ assert and a variable number of audit reports due to the purge. It is recommended that the STP verb be used under normal circumstances; ABT should only be used if the STP message fails.

2. FORMAT

ABT: [e,] DFTAC = a-b-c-d;

3. EXPLANATION OF MESSAGE

a = Switching module number.
b = MSU number.
c = Service group.
d = Circuit number.
e = The action to be aborted. Valid value(s):
   DGN
   EX
   RMV
   RST

4. SYSTEM RESPONSE

NG = No good. Invalid SM number, MSU number, or service group number.
PF = Printout follows. Followed by ABT:DFTAC output message.
RL = Retry later. The request cannot be executed now (that is, SM is not linked).

5. REFERENCES
Input Message(s):

- DGN : DFTAC
- EX  : DFTAC
- RMV : DFTAC
- RST : DFTAC
- STP : DFTAC

Output Message(s):

- ABT : DFTAC
ABT:DIST

Software Release: 5E14 and later
Command Group: SM
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Requests that actions on the distribute point board (DIST) at the specified location be aborted.

WARNING: This message causes the intended process to be purged. It also causes a SMABTREQ assert and a variable number of audit reports due to the purge. It is recommended that the STP verb be used under normal circumstances; ABT should only be used if the STP message fails.

2. FORMAT

ABT:a,DIST=b-c-d-e;

3. EXPLANATION OF MESSAGE

a = Action being aborted. The default is the action currently executing on the distribute point board.
   Valid value(s):
   DGN = Diagnose.
   EX = Exercise.
   RMV = Remove.
   RST = Restore.

b = Switching module number.

c = Metallic service unit number.

d = Service group number.

e = Distribute point board number.

4. SYSTEM RESPONSE

NG = No good. The request has been denied because of a conflict with current status.

PF = Printout follows. Followed by the ABT:DIST output message.

5. REFERENCES

Input Message(s):

DGN:DIST
EX:DIST
RMV:DIST
RST: DIST
STP: DIST

Output Message(s):

ABT: DIST
ABT:DLI

**Software Release:** 5E14 and later  
**Command Group:** CM  
**Application:** 5  
**Type:** Input

1. **PURPOSE**

Aborts an action on a specific dual link interface (DLI) or range of DLIs in the specified office network and timing complex (ONTC).

'Abort' is differentiated from 'stop' by the action of the request. An abort action is immediate and without regard for the state of the hardware, while 'stop' will wait for a 'clean' point of termination, (that is, the end of a phase) and will attempt to leave the hardware in a sane state.

**NOTE:** An 'ABT' should only be used if an 'STP' input message fails.

2. **FORMAT**

ABT: {a,}DLI={b|b&&c}-d;

3. **EXPLANATION OF MESSAGE**

- **a** = Action being aborted (default is any action currently waiting or executing on the DLI). Valid value(s):
  - DGN = Diagnose.
  - EX = Exercise.
  - RST = Restore.

- **b** = Number of the switching module (SM) that the DLI is on. Also specifies the lower limit for the range of DLIs that is to be aborted, where the DLI number is equivalent to the SM number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

- **c** = Upper limit of a range of DLIs to be aborted.

- **d** = ONTC side that the DLI is on. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. **SYSTEM RESPONSE**

- **IP** = In progress. The abort has been initiated. A completion message will be printed for the original request when the abort has completed.

- **NG** = No good. The request has been denied. The message syntax is valid, but the request could not be processed. Refer to the APP:CM-IM-REASON appendix in the Appendixes section of the Input Messages manual for a list of possible reasons for denying the request.

5. **REFERENCES**

Input Message(s):

- **EX:DLI**
OP: DMQ
RST: DLI
STP: DLI

Output Message(s):
OP: DMQ-CM

Input Appendix(es):
APP: CM-IM-REASON
APP: RANGES
ABT:DNUSCC

Software Release: 5E14 and later
Command Group: SM
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Requests that maintenance actions be aborted on a digital networking unit - synchronous optical network (DNU-S) common controller (DNUSCC).

**NOTE:** Execution of this message may require further action to put the unit into a sane state. Refer to the References section of this message.

**WARNING:** This message causes the intended process to be purged. It also causes a SMABTREQ assert and a variable number of other asserts and audit reports due to the purge. It is recommended that the STP verb be used under normal circumstances; ABT should only be used if the STP message fails.

2. FORMAT

```
ABT: [a,]DNUSCC=b-c-d;
```

3. EXPLANATION OF MESSAGE

- **a** = Action to be aborted (default is the action currently executing on the DNUSCC). Valid value(s):
  - DGN = Diagnose.
  - RMV = Remove.
  - RST = Restore.

- **b** = Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

- **c** = Digital networking unit - synchronous optical network (DNU-S) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

- **d** = Common controller number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

- **NG** = No good. The message form is valid, but the request conflicts with the current status.
- **PF** = Printout follows. An ABT:DNUSCC output message will follow.
- **RL** = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES
Input Message(s):
    DGN: DNUSCC
    RMV: DNUSCC
    RST: DNUSCC

Output Message(s):
    ABT: DNUSCC

Input Appendix(es):
    APP: RANGES

MCC Display Page(s):
    1510 (DNUS STATUS)
ABT:DNUSCD

Software Release: 5E14 and later
Command Group: SM
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Requests that maintenance actions be aborted on a digital networking unit - synchronous optical network (DNU-S) common data (DNUSCD).

NOTE: Execution of this message may require further action to put the unit into a sane state. Refer to the References section of this message.

WARNING: This message causes the intended process to be purged. It also causes a SMABTREQ assert and a variable number of other asserts and audit reports due to the purge. It is recommended that the STP verb be used under normal circumstances; ABT should only be used if the STP message fails.

2. FORMAT

ABT: [a,]DNUSCD=b-c-d-e;

3. EXPLANATION OF MESSAGE

a = Action to be aborted (default is the action currently executing on the DNUSCD). Valid value(s):
   DGN = Diagnose.
   RMV = Remove.
   RST = Restore.

b = Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

c = DNU-S number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

d = Data group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

e = Common data number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

NG = No good. The message form is valid, but the request conflicts with the current status.

PF = Printout follows. An ABT:DNUSCD output message will follow.

RL = Retry later. The request cannot be executed now due to unavailable system resources.
5. REFERENCES

Input Message(s):

DGN: DNUSCD
RMV: DNUSCD
RST: DNUSCD

Output Message(s):

ABT: DNUSCD

Input Appendix(es):

APP: RANGES

MCC Display Page(s):

1510 (DNUS STATUS)
ABT:DS1

Software Release: 5E16(1) and later
Command Group: SM
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Requests that the currently executing maintenance action on a digital signal - level 1 (DS1) be aborted.

WARNING: The ABT command causes the intended process to be purged. It can also cause a variable number of other purges, asserts and audit reports. Under normal circumstances, use the STP verb; use ABT only if the STP command fails. Service-affecting aborts tear down any calls on the specified DS1 facility.

2. FORMAT

ABT: [a,]DS1=b-c-d-e-f-g-h;

3. EXPLANATION OF MESSAGE

a = Action being aborted (default is the currently executing action). Valid value(s):
   RMV = Remove.
   RST = Restore.

b = Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

c = Optical interface unit (OIU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

d = Protection group (PG) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

e = Optical carrier - level 3 (OC3) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

f = Synchronous transport signal - level 1 (STS1) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

g = Virtual tributary - level 1.5 (VT15) group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

h = VT15 member number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

NG = No good. The message form is valid, but the request conflicts with current status.
PF = Printout follows. Followed by the ABT:DS1 output message.

RL = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

Input Message(s):

RMV:DS1
RST:DS1
STP:DS1

Output Message(s):

ABT:DS1

Input Appendix(es):

APP:RANGES

Other Manual(s):
235-105-110   System Maintenance Requirements and Tools
235-105-220   Corrective Maintenance

MCC Display Page(s):
1492         OIU STS1 STATUS
ABT:DS1SFAC

Software Release: 5E14 and later  
Command Group: SM  
Application: 5  
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Requests that maintenance actions be aborted on a digital networking unit - synchronous optical network (DNU-S) digital signal level 1 facility (DS1SFAC).

Execution of this message may require further action to put the unit into a sane state. Refer to the REFERENCES section of this message.

WARNING: This message causes the intended process to be purged. It also causes a SMABTREQ assert and a variable number of other asserts and audit reports due to the purge. It is recommended that the STP verb be used under normal circumstances; ABT should only be used if the STP message fails.

2. FORMAT

ABT: [a,]DS1SFAC=b-c-d-e-f-g-h;

3. EXPLANATION OF MESSAGE

a = Action to be aborted (default is the action currently executing on the DS1SFAC). Valid value(s):
   RMV = Remove.
   RST = Restore.

b = Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

c = Digital networking unit - SONET (DNU-S) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

d = Data group (DG) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

e = SONET termination equipment (STE) facility number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

f = Synchronous transport signal (STS) facility number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

g = Virtual tributary group (VTG) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

h = Virtual tributary member (VTM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
4. SYSTEM RESPONSE

NG = No good. The message form is valid, but the request conflicts with the current status.

PF = Printout follows. Followed by the ABT:DS1SFAC output message.

RL = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

Input Message(s):

RMV:DS1SFAC
RST:DS1SFAC

Output Message(s):

ABT:DS1SFAC

Input Appendix(es):

APP:RANGES

MCC Display Page(s):

1511,x,yyy DNUS STS MAINTENANCE
ABT:EAN

Software Release: 5E14 and later
Command Group: SM
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE
Requests that actions on the equipment access network (EAN) at the specified location be aborted.

WARNING: This message causes the intended process to be purged. It also causes a SMABTREQ assert and a variable number of audit reports due to the purge. It is recommended that the STP verb be used under normal circumstances; ABT should only be used if the STP message fails.

2. FORMAT
ABT: [a,]EAN=b-c;

3. EXPLANATION OF MESSAGE

a  = Action being aborted (the default is the action currently executing on the EAN). Valid value(s):
    DGN    = Diagnose.
    EX     = Exercise.
    RMV    = Remove.
    RST    = Restore.

b  = Switching module number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

c  = Directly connected test unit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

NG  = No good. The request has been denied because of a conflict with current status.

PF  = Printout follows. Followed by the ABT:EAN output message.

5. REFERENCES

Input Message(s):

DGN:EAN
EX:EAN
RMV:EAN
RST:EAN
Output Message(s):

ABT : EAN

Input Appendix(es):

APP : RANGES
ABT:EC1STE

Software Release: 5E14 and later
Command Group: SM
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Requests that maintenance actions be aborted on a digital networking unit - Electrical Carrier Level 1 SONET Termination equipment facility (EC1STE).

Note: Execution of this message may require further action to put the unit into a valid state.

WARNING: This message causes the intended process to be purged. It also causes a SMABTREQ assert and a variable number of other asserts and audit reports due to the purge. It is recommended that the STP verb be used under normal circumstances; ABT should only be used if the STP message fails.

2. FORMAT

ABT:[a,]EC1STE=b-c-d-e;

3. EXPLANATION OF MESSAGE

a = Action to be aborted (default is the action currently executing on the EC1STE). Valid value(s):
   RMV = Remove.
   RST = Restore.

b = Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

c = Digital Networking Unit - SONET (DNU-S) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

d = Data group (DG) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

e = SONET Termination Equipment (STE) facility number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

NG = No good. The message form is valid, but the request conflicts with the current status.

PF = Printout follows. An ABT:EC1STE output message will follow.

RL = Retry later. The request cannot be executed now due to unavailable system resources.
5. REFERENCES

Input Message(s):

RMV:EC1STE
RST:EC1STE

Output Message(s):

ABT:EC1STE

Input Appendix(es):

APP:RANGES

MCC Display Page(s):

1510 (DNUS STATUS)
1. PURPOSE

Requests abort of maintenance actions on a remote switching module (RSM) facility (FAC) or a trunk FAC.

A remote switching module (RSM) FAC can be a host-remote facility between a host switching module (HSM) and an RSM, or a remote facility between two RSMs. A trunk FAC is an inter-office trunk.

WARNING: This message causes the intended process to be purged. It also causes an SMABTREQ assert and a variable number of audit reports due to the purge. It is recommended that the STP verb be used under normal circumstances; ABT should only be used if the STP message fails.

2. FORMAT

ABT:[a,a,FAC=b-c-d-e;]

3. EXPLANATION OF MESSAGE

- **a**: Action being aborted (default is the action currently executing on the FAC). Valid value(s):
  - **RMV**: Remove.
  - **RST**: Restore.
  - **TST**: Test.

- **b**: Switching module (SM) number.

- **c**: Digital line and trunk unit (DLTU) number.

- **d**: RSM digital facilities interface (RDFI) number, inter-RSM communication link digital facilities interface (CDFI) number, or inter-office trunk DFI number.

- **e**: Facility number. The FAC number is the T1 facility number on a RDFI, CDFI, or DFI. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

- **NG**: No good. The message syntax is valid, but the request conflicts with current system or equipment status. May also include:
  - **NOT STARTED UNIT IN GROWTH STATE**
  - **SM DOES NOT EXIST**
  - **SM UNEQUIPPED**
  - **UNIT DOES NOT EXIST**
PF = Printout follows. An ABT:FAC output message follows in response to the request.

RL = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

Input Message(s):

RMV:FAC
RST:FAC
TST:FAC

Output Message(s):

ABT:FAC

Input Appendix(es):

APP:RANGES

Other Manual(s):
235-105-220 Corrective Maintenance Manual
235-105-250 System Recovery Manual
ABT:FPC

Software Release: 5E14 and later
Command Group: CM
Application: 5
Type: Input

1. PURPOSE

Aborts actions on the specified foundation peripheral controller (FPC).

'Abort' is differentiated from 'stop' by the action of the request. An abort action is immediate, not caring about the state of the hardware, while 'stop' will wait for a 'clean' point of termination, (that is, the end of a phase) and will attempt to leave the hardware in a sane state.

Note: Abort should only be used if the STP:FPC input message fails.

2. FORMAT

ABT:[a,]FPC=b;

3. EXPLANATION OF MESSAGE

a = Action being aborted. The default is any action currently waiting or executing on the specified unit.
   Valid value(s):
   DGN = Diagnose. (Not valid for CM3)
   EX = Exercise. (Not valid for CM3)
   RST = Restore.

b = FPC number.

4. SYSTEM RESPONSE

IP = In progress. The abort has been initiated. A completion message will be printed for the original request when the abort has completed.

NG = No good. The request has been denied. The message syntax is valid, but the request could not be processed. Refer to the APP:CM-IM-REASON appendix in the Appendixes section of the Input Messages manual for a list of possible reasons for denying the request.

5. REFERENCES

Input Message(s):
   DGN:FPC
   EX:FPC
   OP:DMQ
   RST:FPC

Output Message(s):
   DGN:FPC
EX:FPC
OP:DMQ-CM
RST:FPC

Input Appendix(es):

APP:CM-IM-REASON
ABT:GDSF

Software Release: 5E14 and later
Command Group: SM
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Aborts actions on the global digital services function (GDSF).

WARNING: This message causes the intended process to be purged. It also causes a SMABTREQ assert and a variable number of audit reports due to the purge. It is recommended that the STP verb be used under normal circumstances; ABT should only be used if the STP message fails.

2. FORMAT

ABT: [a,] GDSF=b-c;

3. EXPLANATION OF MESSAGE

a = Action being aborted (default is the action currently executing on the GDSF circuit). Valid value(s):
  DGN = Diagnose.
  EX  = Exercise.
  RMV = Remove.
  RST = Restore.

b = Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

c = GDSF number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

NG = No good. The request has been denied because of a conflict with current status,

PF = Printout follows. Followed by the ABT:GDSF output message.

5. REFERENCES

Input Message(s):
  DGN:GDSF
  EX:GDSF
  RMV:GDSF
  RST:GDSF
  STP:GDSF
Output Message(s):

ABT: GDSF
ABT:GDSUCOM

Software Release: 5E14 and later
Command Group: SM
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Requests that actions on the global digital service unit common (GDSUCOM) board be aborted at the specified location.

WARNING: This message causes the intended process to be purged. It also causes a SMABTREQ assert and a variable number of audit reports due to the purge. It is recommended that the STP verb be used under normal circumstances; ABT should only be used if the STP message fails.

2. FORMAT

ABT: [a,]GDSUCOM=b-c-d;

3. EXPLANATION OF MESSAGE

a = Action being aborted (the default is the action currently executing on the GDSUCOM board). Valid value(s):
   DGN = Diagnose.
   EX  = Exercise.
   RMV = Remove.
   RST = Restore.

b = Switching module number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

c = Global digital service unit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

d = Service group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

NG = No good. The request has been denied because of a conflict with current status.
PF = Printout follows. Followed by the ABT:GDSUCOM output message.

5. REFERENCES

Input Message(s):
   DGN:GDSUCOM
ABT:GDXACC

Software Release: 5E14 and later
Command Group: SM
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Requests that actions on the gated diode crosspoint access (GDXACC) be aborted at the specified location.

WARNING: This message causes the intended process to be purged. It also causes a SMABTREQ assert and a variable number of audit reports due to the purge. It is recommended that the STP verb be used under normal circumstances; ABT should only be used if the STP message fails.

2. FORMAT

ABT: [a,]GDXACC=b-c-d;

3. EXPLANATION OF MESSAGE

a = Action being aborted (the default is the action currently executing on the GDXACC). Valid value(s):
   DGN    = Diagnose.
   EX     = Exercise.
   RMV    = Remove.
   RST    = Restore.

b = Switching module number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

c = Line unit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

d = Service group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

NG = No good. The request has been denied because of a conflict with current status.

PF = Printout follows. Followed by the ABT:GDXACC output message.

5. REFERENCES

Input Message(s):
   DGN:GDXACC
   EX:GDXACC
ABT:GDXC

Software Release: 5E14 and later
Command Group: SM
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Requests that actions on the gated diode crosspoint compensator (GDXC) at the specified location be aborted.

WARNING: This message causes the intended process to be purged. It also causes a SMABTREQ assert and a variable number of audit reports due to the purge. It is recommended that the STP verb be used under normal circumstances; ABT should only be used if the STP message fails.

2. FORMAT

ABT: [a,]GDXC=b-c-d-e;

3. EXPLANATION OF MESSAGE

a = Action being aborted (the default is the action currently executing on the GDXC). Valid value(s):
   DGN = Diagnose.
   EX = Exercise.
   RMV = Remove.
   RST = Restore.

b = Switching module number.

c = Metallic service unit number.

d = Service group number.

e = Metallic service unit board position number.

4. SYSTEM RESPONSE

NG = No good. The request has been denied because of a conflict with current status.

PF = Printout follows. Followed by the ABT:GDXC output message.

5. REFERENCES

Input Message(s):

DGN:GDXC
EX:GDXC
RMV:GDXC
RST:GDXC
STP: GDXC

Output Message(s):

ABT: GDXC
ABT:GDXCON

Software Release: 5E14 and later
Command Group: SM
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Requests that actions on the gated diode crosspoint control (GDXCON) be aborted at the specified location.

WARNING: This message causes the intended process to be purged. It also causes a SMABTREQ assert and a variable number of audit reports due to the purge. It is recommended that the STP verb be used under normal circumstances; ABT should only be used if the STP message fails.

2. FORMAT

ABT: [a,]GDXCON=b-c-d;

3. EXPLANATION OF MESSAGE

a = Action being aborted (the default is the action currently executing on the GDXCON). Valid value(s):
   DGN = Diagnose.
   EX = Exercise.
   RMV = Remove.
   RST = Restore.

b = Switching module number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

c = Line unit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

d = Service group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

NG = No good. The request has been denied because of a conflict with current status.

PF = Printout follows. Followed by the ABT:GDXCON output message.

5. REFERENCES

Input Message(s):

DGN:GDXCON
EX:GDXCON
RMV: GDXCON
RST: GDXCON
STP: GDXCON

Output Message(s):

ABT: GDXCON

Input Appendix(es):

APP: RANGES
ABT:GKCCR

**Software Release:** 5E14 and later
**Command Group:** ODD
**Application:** 5
**Type:** Input

1. **PURPOSE**

Requests that any currently running generated key collection and compression routine (GKCCR) processes be aborted in specified processors. Either specific processors can be specified or no processors can be specified. If no processors are specified, then the GKCCR will be aborted on every processor.

ABT:GKCCR aborts GKCCR whether the GKCCR was invoked automatically or manually. Automatic GKCCR runs periodically unless GKCCR is inhibited using the INH:GKCCR input request. Manual GKCCR runs as a result of the EXC:GKCCR input request.

No data corruption will occur as a result of the abort. The GKCCR processes are purged immediately and the user should not expect to see any subsequent EXC:GKCCR or REPT:GKCCR output messages from the purged GKCCR processes.

Any queued manual GKCCR requests are de-queued for the specified processors.

2. **FORMAT**

   ABT:GKCCR[,SM=a[&b]][,CMP=c[-{PRIM|MATE}]][,AM];

3. **EXPLANATION OF MESSAGE**

   **MATE** = Mate CMP.
   **PRIM** = Primary CMP.
   a = Switching module (SM) number or the lower limit of a range of SM numbers.
   b = The upper limit of a range of SM numbers.
   c = Communications module processor (CMP) number.

4. **SYSTEM RESPONSE**

   **NG** = No good. The input request is invalid. May also include:
   - **NO VALID PROCESSOR SPECIFIED** = Specific processor(s) were specified in the input request line but no requested processor was operational. If specific processors are to be requested, at least one requested processor must be operational.

   **PF** = Printout follows. The request was accepted. An ABT:GKCCR output message will report the status of the request.

5. **REFERENCES**

   Input Message(s):
Output Message(s):

   ABT: GKCCR
   EXC: GKCCR
   REPT: GKCCR

Other Manual(s):
235-105-220 Corrective Maintenance
235-105-210 Routine Operations and Maintenance
ABT:GRID

Software Release: 5E14 and later
Command Group: SM
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Requests that actions on the gated diode crosspoint (GDX) grid be aborted at the specified location.

WARNING: This message causes the intended process to be purged. It also causes a SMABTREQ assert and a variable number of audit reports due to the purge. It is recommended that the STP verb be used under normal circumstances; ABT should only be used if the STP message fails.

2. FORMAT

ABT: [a,]GRID=b-c-d;

3. EXPLANATION OF MESSAGE

a = Action being aborted (the default is the action currently executing on the GDX grid). Valid value(s):
DGN = Diagnose.
EX = Exercise.
RMV = Remove.
RST = Restore.
TST = Test.

b = Switching module number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

c = Line unit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

d = Grid number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

NG = No good. The request has been denied because of a conflict with current status.

PF = Printout follows. Followed by the ABT:GRID output message.

5. REFERENCES

Input Message(s):
DGN:GRID
EX:GRID
ABT:GRIDBD

**Software Release**: 5E14 and later  
**Command Group**: SM  
**Application**: 5  
**Type**: Input

**WARNING**: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. **PURPOSE**

Aborts the scheduled action on the line unit model 2; (LU2) or line unit model 3; (LU3) grid board.

**WARNING**: This message causes the intended process to be purged. It also causes an SMABTREQ assert and a variable number of audit reports due to the purge. It is recommended that the STP verb be used under normal circumstances; ABT should only be used if the STP message fails.

2. **FORMAT**

\[
\text{ABT:}\{a,\}\text{GRIDBD} = b-c-d-e;
\]

3. **EXPLANATION OF MESSAGE**

- **a**  
  Action being aborted (default is the action currently executing on the GRIDBD):  
  - DGN = Diagnose.  
  - EX = Exercise.  
  - RMV = Remove.  
  - RST = Restore.  
  - TST = Test.

- **b**  
  Switching module number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

- **c**  
  Line unit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

- **d**  
  Grid number (LU2). Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

- **e**  
  Grid number (LU3). Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

- **e**  
  Board number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. **SYSTEM RESPONSE**

- **NG**  
  No good. The request has been denied. The message form is valid, but the request conflicts with current status.

- **PF**  
  Printout follows. Followed by an ABT:GRIDBD output message.
5. REFERENCES

Input Message(s):

DGN:GRIDBD
EX:GRIDBD
RMV:GRIDBD
RST:GRIDBD
STP:GRIDBD
TST:GRIDBD

Output Message(s):

ABT:GRIDBD

Input Appendix(es):

APP:RANGES

MCC Display Page(s):

102Y,X Y (CONCEN)
ABT:HDFI

Software Release: 5E14 and later
Command Group: SM
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Requests that maintenance actions on the host switching module (HSM) digital facilities interface (HDFI) circuit be aborted. This message results in a process purge in the HSM.

WARNING: This message causes the intended process to be purged. It also causes a SMABTREQ assert and a variable number of audit reports due to the purge. It is recommended that the STP verb be used under normal circumstances; ABT should only be used if the STP message fails.

2. FORMAT

ABT:[a,]HDFI=b-c-d;

3. EXPLANATION OF MESSAGE

a = Action being aborted. If the action being aborted is a conditional removal of an HDFI, there is a corresponding conditional removal of the T1 facility (T1FAC) in the remote switching module (RSM) being processed. The T1FAC action in the RSM may be manually aborted if desired. Default is the action currently executing on the HDFI. Valid value(s):
   DGN = Diagnose.
   EX = Exercise.
   RMV = Remove.
   RST = Restore.

b = Switching module (SM) number.

c = Digital line and trunk unit (DLTU) number.

d = HDFI number.

4. SYSTEM RESPONSE

NG = No good. Request denied because of a conflict with current status.

PF = Printout follows. Followed by the ABT:HDFI output message.

5. REFERENCES

Input Message(s):

ABT:FAC
DGN:HDFI
EX: HDFI
RMV: HDFI
RST: HDFI

Output Message(s):

ABT: HDFI
ABT:IDCU

Software Release: 5E14 and later
Command Group: SM
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Requests that a specified action on an integrated digital carrier unit (IDCU) service group be aborted (ABT).

WARNING: This message causes the intended process to be purged. It also causes a SMABTREQ assert and a variable number of audit reports due to the purge. It is recommended that the STP verb be used under normal circumstances; ABT should only be used if the STP message fails.

2. FORMAT

ABT: [a,]IDCU=b-c-d;

3. EXPLANATION OF MESSAGE

a = Action to be aborted (the default action is the action currently executing on the IDCU service group). Valid value(s):
   DGN = Diagnose
   EX  = Exercise
   RMV = Remove
   RST = Restore

b = Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

c = IDCU number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

d = IDCU service group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

PF = Printout follows. An ABT:IDCU output message will follow.

NG = No good. The request has been denied. The message is valid but the request conflicts with current status.

RL = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

Input Message(s):
ABT:IDCUELI

**Software Release:** 5E14 and later

**Command Group:** SM

**Application:** 5

**Type:** Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. **PURPOSE**

Requests that a specified action on an integrated digital carrier unit (IDCU) electrical line interface (ELI) circuit be aborted (ABT).

**WARNING:** This message causes the intended process to be purged. It also causes a SMABTREQ assert and a variable number of audit reports due to the purge. It is recommended that the STP verb be used under normal circumstances; ABT should only be used if the STP message fails.

2. **FORMAT**

ABT: [a,]IDCUELI=b-c-d;

3. **EXPLANATION OF MESSAGE**

a = Action to be aborted (the default action is the action currently executing on the IDCU ELI). Valid value(s):
   - RMV = Remove
   - RST = Restore

b = Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

c = IDCU number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

d = ELI number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. **SYSTEM RESPONSE**

PF = Printout follows. An ABT:IDCUELI output message will follow.

NG = No good. The request has been denied. The message is valid but the request conflicts with current status.

RL = Retry later. The request cannot be executed now due to unavailable system resources.

5. **REFERENCES**

Input Message(s):
RMV: IDCUELI  
RST: IDCUELI

Output Message(s):
ABT: IDCUELI

Input Appendix(es):
APP: RANGES

Other Manual(s):
235-105-220 Corrective Maintenance  
235-105-110 System Maintenance Requirements and Tools  
235-600-400 Audits Manual

MCC Display Page(s):
186x (IDCU CIRCUIT)
1. PURPOSE

Requests that a specified action on an integrated digital carrier unit (IDCU) peripheral interface data bus (PIDB) or direct PIDB (DPIDB) pair (both IDCU service groups) be aborted (ABT).

WARNING: This message causes the intended process to be purged. It also causes a SMABTREQ assert and a variable number of audit reports due to the purge. It is recommended that the STP verb be used under normal circumstances; ABT should only be used if the STP message fails.

2. FORMAT

ABT: [a, ]IDCUPIDB=b-c-d;

3. EXPLANATION OF MESSAGE

a = Action to be aborted (the default action is the action currently executing on the IDCU PIDB or DPIDB). Valid value(s):
   RMV = Remove.
   RST = Restore.

b = Switching module (SM) number. Refer to the APP: RANGES appendix in the Appendixes section of the Input Messages manual.

c = IDCU number. Refer to the APP: RANGES appendix in the Appendixes section of the Input Messages manual.

d = PIDB or DPIDB pair number. Refer to the APP: RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

PF = Printout follows. An ABT:IDCUPIDB output message will follow.

NG = No good. The request has been denied. The message is valid but the request conflicts with current status.

RL = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

Input Message(s):
ABT:IFAC

Software Release: 5E14 and later
Command Group: SM
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Requests that a specified action on an integrated digital carrier unit (IDCU) digital signal level one (DS1) facility (IFAC) circuit be aborted (ABT).

WARNING: This message causes the intended process to be purged. It also causes a SMABTREQ assert and a variable number of audit reports due to the purge. It is recommended that the STP verb be used under normal circumstances; ABT should only be used if the STP message fails.

2. FORMAT

ABT:[a,] IFAC=b-c-d;

3. EXPLANATION OF MESSAGE

a = Action to be aborted (the default action is the action currently executing on the IDCU DS1 FAC).
   Valid value(s):
      RMV = Remove.
      RST = Restore.

b = Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

c = IDCU number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

d = IFAC number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

PF = Printout follows. An ABT:IFAC output message will follow.

NG = No good. The request has been denied. The message is valid but the request conflicts with current status.

RL = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

Input Message(s):
ABT:ISLUCC
Software Release: 5E14 and later
Command Group: SM
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE
Requests that actions be aborted on an integrated services line unit common controller (ISLUCC).

NOTE: Execution of this message may require further action to put the unit into a sane state. Refer to the References section of this message.

WARNING: This message causes the intended process to be purged. It also causes a SMABTREQ assert and a variable number of audit reports due to the purge. It is recommended that the STP verb be used under normal circumstances; ABT should only be used if the STP message fails.

2. FORMAT
ABT:[a,]ISLUCC=b-c-d;

3. EXPLANATION OF MESSAGE

a = Action to be aborted. Valid value(s):
   DGN = Diagnose.
   EX = Exercise.
   RMV = Remove.
   RST = Restore.

NOTE: The default is the action currently executing on the ISLUCC.

b = Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

c = Integrated services line unit (ISLU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

d = Common controller number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE
NG = No good. The message form is valid, but the request conflicts with the current status.
PF = Printout follows. An ABT:ISLUCC output message will follow.

5. REFERENCES
Input Message(s):

DGN: ISLUCC
EX: ISLUCC
OP: DMQ
OP: OOS
RMV: ISLUCC
RST: ISLUCC

Output Message(s):

ABT: ISLUCC

Input Appendix(es):

APP: RANGES

MCC Display Page(s):

170x (ISLU NETWORK)
170xy (ISLU LINE GROUP)
ABT:ISLUCD

Software Release: 5E14 and later
Command Group: SM
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Requests the actions be aborted on an integrated services line unit common data (ISLUCD).

NOTE: Execution of this message may require further action to put the unit into a sane state. Refer to the References section of this message.

WARNING: This message causes the intended process to be purged. It also causes a SMABTREQ assert and a variable number of audit reports due to the purge. It is recommended that the STP verb be used under normal circumstances; ABT should only be used if the STP message fails.

2. FORMAT

ABT: [a,] ISLUCD=b-c-d;

3. EXPLANATION OF MESSAGE

a = Action to be aborted. Valid value(s):
  DGN = Diagnose.
  EX = Exercise.
  RMV = Remove.
  RST = Restore.

NOTE: The default is the action currently executing on the ISLUCD.

b = Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

c = Integrated services line unit (ISLU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

d = Common data number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

NG = No good. The message form is valid, but the request conflicts with the current status.
PF = Printout follows. An ABT:ISLUCD output message will follow.

5. REFERENCES
Input Message(s):
  DGN: ISLUCD
  EX: ISLUCD
  OP: DMQ
  OP: OOS
  RMV: ISLUCD
  RST: ISLUCD

Output Message(s):
  ABT: ISLUCD

Input Appendix(es):
  APP: RANGES

MCC Display Page(s):
  170x (ISLU NETWORK)
  170xy (ISLU LINE GROUP)
ABT:ISLUHLSC

Software Release: 5E14 and later
Command Group: SM
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Aborts a specified action on the integrated services line unit high level service circuit (ISLUHLSC).

WARNING: This message causes the intended process to be purged. It also causes a SMABTREQ assert and a variable number of audit reports due to the purge. It is recommended that the STP verb be used under normal circumstances; ABT should only be used if the STP message fails.

2. FORMAT

ABT: [a,] ISLUHLSC=b-c-d-e;

3. EXPLANATION OF MESSAGE

a = Action to be aborted. Valid value(s):
  DGN = Diagnose.
  EX = Exercise.
  RMV = Remove.
  RST = Restore.

NOTE: The default is the action currently executing in the ISLUHLSC.

b = Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

c = ISLU number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

d = ISLU service group. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

e = High level service circuit. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

NG = No good. The request has been denied. The message is valid but the request conflicts with the current status.

PF = Printout follows. The ABT:ISLUHLSC output message will follow.

RL = Retry later. The request cannot be executed now due to unavailable system resources.
5. REFERENCES

Input Message(s):

DGN: ISLUHLSC
EX: ISLUHLSC
RMV: ISLUHLSC
RST: ISLUHLSC

Output Message(s):

ABT: ISLUHLSC

Input Appendix(es):

APP: RANGES

MCC Display Page(s):

170x (ISLU NETWORK PAGE)
171x (ISLU-Z PAGE)
ABT:ISLULBD

Software Release: 5E14 and later
Command Group: SM
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Request the actions be aborted on an integrated services line unit line board (ISLULBD).

NOTE: Execution of this message may require further action to put the unit into a sane state. Refer to the References section of this message.

WARNING: This message causes the intended process to be purged. It also causes a SMABTREQ assert and a variable number of audit reports due to the purge. It is recommended that the STP verb be used under normal circumstances; ABT should only be used if the STP message fails.

2. FORMAT

ABT:[a,]ISLULBD=b-c-d-e;

3. EXPLANATION OF MESSAGE

a = Action to be aborted. Valid value(s):
DGN = Diagnose.
EX = Exercise.
RMV = Remove.
RST = Restore.

NOTE: The default is the action currently executing on the ISLULBD circuit.

b = Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

c = Integrated services line unit (ISLU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

d = Line group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

e = Line board number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

NG = No good. The message form is valid, but the request conflicts with the current status.

PF = Printout follows. An ABT:ISLULBD output message will follow.
RL = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

Input Message(s):

DGN: ISLULBD
EX: ISLULBD
RMV: ISLULBD
RST: ISLULBD
STP: ISLULBD

Output Message(s):

ABT: ISLULBD

Input Appendix(es):

APP: RANGES
ABT:ISLULC

Software Release: 5E14 and later
Command Group: SM
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Request the actions be aborted on an integrated services line unit line card (ISLULC).

NOTE: Execution of this message may require further action to put the unit into a sane state. Refer to the References section of this message.

WARNING: This message causes the intended process to be purged. It also causes a SMABTREQ assert and a variable number of audit reports due to the purge. It is recommended that the STP verb be used under normal circumstances; ABT should only be used if the STP message fails.

2. FORMAT

ABT:[a,]ISLULC=b-c-d-e;

3. EXPLANATION OF MESSAGE

a = Action to be aborted. Valid value(s):
   DGN = Diagnose.
   EX = Exercise.
   RMV = Remove.
   RST = Restore.

   NOTE: The default is the action currently executing on the ISLULC circuit.

b = Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

c = Integrated services line unit (ISLU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

d = Line group controller number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

e = Line card number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

NG = No good. The message form is valid, but the request conflicts with the current status.

PF = Printout follows. An ABT:ISLULC output message will follow.
RL = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

Input Message(s):

- DGN: ISLULC
- EX: ISLULC
- OP: DMQ
- OP: OOS
- RMV: ISLULC
- RST: ISLULC
- STP: ISLULC

Output Message(s):

- ABT: ISLULC

Input Appendix(es):

- APP: RANGES

MCC Display Page(s):

- 170x (ISLU NETWORK)
- 170xy (ISLU LINE GROUP)
**ABT:ISLULCKT**

**Software Release:** 5E14 and later  
**Command Group:** SM  
**Application:** 5  
**Type:** Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. **PURPOSE**

Request the actions be aborted on an integrated services line unit line circuit (ISLULCKT).

**NOTE:** Execution of this message may require further action to put the unit into a sane state. Refer to the References section of this message.

**WARNING:** This message causes the intended process to be purged. It also causes a SMABTREQ assert and a variable number of audit reports due to the purge. It is recommended that the STP verb be used under normal circumstances; ABT should only be used if the STP message fails.

2. **FORMAT**

ABT: [a,]ISLULCKT=b-c-d-e-f;

3. **EXPLANATION OF MESSAGE**

- **a** = Action to be aborted. Valid value(s):
  - DGN = Diagnose.
  - EX = Exercise.
  - RMV = Remove.
  - RST = Restore.

  **NOTE:** The default is the action currently executing on the ISLULCKT circuit.

- **b** = Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

- **c** = Integrated services line unit (ISLU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

- **d** = Line group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

- **e** = Line board number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

- **f** = Line circuit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. **SYSTEM RESPONSE**

- **NG** = No good. The message form is valid, but the request conflicts with the current status.
PF = Printout follows. An ABT:ISLULCKT output message will follow.

RL = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

Input Message(s):
- DGN:ISLULCKT
- EX:ISLULCKT
- RMV:ISLULCKT
- RST:ISLULCKT
- STP:ISLULCKT

Output Message(s):
- ABT:ISLULCKT

Input Appendix(es):
- APP:RANGES
ABT:ISLULG

Software Release: 5E14 and later
Command Group: SM
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Requests actions be aborted on an integrated services line unit line group (ISLULG).

NOTE: Execution of this message may require further action to put the unit into a sane state. Refer to the References section of this message.

WARNING: This message causes the intended process to be purged. It also causes a SMABTREQ assert and a variable number of audit reports due to the purge. It is recommended that the STP verb be used under normal circumstances; ABT should only be used if the STP message fails.

2. FORMAT

ABT: [a,] ISLULG=b-c-d;

3. EXPLANATION OF MESSAGE

a = Action to be aborted. Valid value(s):
DGN = Diagnose.
RMV = Remove.
RST = Restore.

NOTE: The default is the action currently executing on the ISLULG.

b = Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

c = Integrated services line unit (ISLU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

d = Line group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

NG = No good. The message form is valid, but the request conflicts with the current status.
PF = Printout follows. An ABT:ISLULG output message will follow.

5. REFERENCES

Input Message(s):
ABT:ISLULGC

Software Release: 5E14 and later
Command Group: SM
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Requests actions be aborted on an integrated services line unit line group controller (ISLULGC).

NOTE: Execution of this message may require further action to put the unit into a sane state. Refer to the References section of this message.

WARNING: This message causes the intended process to be purged. It also causes a SMABTREQ assert and a variable number of audit reports due to the purge. It is recommended that the STP verb be used under normal circumstances; ABT should only be used if the STP message fails.

2. FORMAT

ABT: [a,] ISLULGC=b-c-d;

3. EXPLANATION OF MESSAGE

a = Action to be aborted. Valid value(s):
   DGN = Diagnose.
   EX  = Exercise.
   RMV = Remove.
   RST = Restore.

NOTE: The default is the action currently executing on the ISLULGC.

b = Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

c = Integrated services line unit (ISLU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

d = Line group controller number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

NG = No good. The message form is valid, but the request conflicts with the current status.

PF = Printout follows. An ABT:ISLULGC output message will follow.

5. REFERENCES
Input Message(s):

DGN: ISLULGC
EX: ISLULGC
OP: DMQ
OP: OOS
RMV: ISLULGC
RST: ISLULGC

Output Message(s):

ABT: ISLULGC

Input Appendix(es):

APP: RANGES

MCC Display Page(s):

170x (ISLU NETWORK)
170xy (ISLU LINE GROUP)
ABT:ISLUMAN

Software Release: 5E14 and later
Command Group: SM
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Aborts a specified action on the integrated services line unit metallic access network (ISLUMAN).

WARNING: This message causes the intended process to be purged. It also causes a SMABTREQ assert and a variable number of audit reports due to the purge. It is recommended that the STP verb be used under normal circumstances; ABT should only be used if the STP message fails.

2. FORMAT

ABT: [a,]ISLUMAN=b-c-d-e;

3. EXPLANATION OF MESSAGE

a = Action to be aborted. Valid value(s):
DGN = Diagnose.
EX = Exercise.
RMV = Remove.
RST = Restore.

NOTE: The default is the action currently executing in the ISLUMAN.

b = Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

c = Integrated services line unit (ISLU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

d = ISLU service group. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.


4. SYSTEM RESPONSE

NG = No good. The request has been denied. The message is valid but the request conflicts with the current status.

PF = Printout follows. The ABT:ISLUMAN output message will follow.

RL = Retry later. The request cannot be executed now due to unavailable system resources.
5. REFERENCES

Input Message(s):

DGN: ISLUMAN
EX: ISLUMAN
RMV: ISLUMAN
RST: ISLUMAN

Input Appendix(es):

APP: RANGES

MCC Display Page(s):

170x (ISLU NETWORK PAGE)
171x (ISLU-Z PAGE)
ABT:ISLUPIDB

Software Release: 5E14 and later
Command Group: SM
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Aborts actions on an integrated services line unit (ISLU) peripheral interface data bus (PIDB) pair (both service groups).

NOTE: Execution of this message may require further action to put the unit into a sane state. Refer to the Reference section of this message. This message should only be used when it is necessary to abort the remove phase of an ISLUPIDB degrowth procedure or the restore phase of an ISLUPIDB growth procedure.

WARNING: This message causes the intended process to be purged. It also causes a SMABTREQ assert and a variable number of audit reports due to the purge. It is recommended that the STP verb be used under normal circumstances; ABT should only be used if the STP message fails.

2. FORMAT

ABT: [a,] ISLUPIDB=b-c-d;

3. EXPLANATION OF MESSAGE

a = Action to be stopped. Valid value(s):
   RMV = Remove.
   RST = Restore.

   NOTE: The default is the action currently executing on the ISLU.

b = Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

c = ISLU number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

d = PIDB pair number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

NG = No good. The message form is valid, but the request conflicts with the current status.

PF = Printout follows. An ABT:ISLUPIDB output message will follow.

5. REFERENCES
Input Message(s):

OP: OOS
RMV: ISLUPIDB
RST: ISLUPIDB

Output Message(s):

ABT: ISLUPIDB

Input Appendix(es):

APP: RANGES
ABT:ISLURG

Software Release: 5E14 and later
Command Group: SM
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE
SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Aborts a specified action on the integrated services line unit ringing generator (ISLURG).

WARNING: This message causes the intended process to be purged. It also causes a SMABTREQ assert and a
variable number of audit reports due to the purge. It is recommended that the STP verb be used under
normal circumstances; ABT should only be used if the STP message fails.

2. FORMAT

ABT: [a,]ISLURG=b-c-d;

3. EXPLANATION OF MESSAGE

a

= Action to be aborted. Valid value(s):
DGN = Diagnose.
EX = Exercise.
RMV = Remove.
RST = Restore.

NOTE: The default is the action currently executing in the ISLURG.

b

= Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section
of the Input Messages manual.

c

= ISLU number. Refer to the APP:RANGES appendix in the Appendixes section of the Input
Messages manual.

d

= ISLU service group of RG. Refer to the APP:RANGES appendix in the Appendixes section of the
Input Messages manual.

4. SYSTEM RESPONSE

NG = No good. The request has been denied. The message is valid but the request conflicts with the
current status.

PF = Printout follows. The ABT:ISLURG output message will follow.

RL = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES
Input Message(s):

DGN: ISLURG
EX: ISLURG
RMV: ISLURG
RST: ISLURG

Input Appendix(es):

APP: RANGES

MCC Display Page(s):

170x (ISLU NETWORK PAGE)
171x (ISLU-Z PAGE)
ABT:ISTF

**Software Release:** 5E14 and later  
**Command Group:** SM  
**Application:** 5  
**Type:** Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Aborts the specified actions on the integrated services test function (ISTF) unit.

**WARNING:** This message causes the intended process to be purged. It also causes a SMABTREQ assert and a variable number of audit reports due to the purge. It is recommended that the STP verb be used under normal circumstances; ABT should only be used if the STP message fails.

2. FORMAT

   ABT:[a,]ISTF=b-c;

3. EXPLANATION OF MESSAGE

   **a**  
   = Action being aborted. Valid value(s):
   DGN = Diagnose.
   EX  = Exercise.
   RMV = Remove.
   RST = Restore.

   **NOTE:** The default is the action currently executing on the ISTF unit.

   **b**  
   = Switching module (SM) number.

   **c**  
   = ISTF unit number.

4. SYSTEM RESPONSE

   **NG**  
   = No good. The request has been denied because it conflicts with current equipment status. May also include:
   - SM DOES NOT EXIST = The requested SM does not exist in the system.
   - SM UNEQUIPPED = The SM specified in the request is unequipped.
   - UNIT DOES NOT EXIST = The requested unit does not exist in the system.

   **PF**  
   = Printout follows. The request has been accepted. Followed by an ABT:ISTF output message.

5. REFERENCES

Input Message(s):

   DGN:ISTF
EX: ISTF
RMV: ISTF
RST: ISTF
STP: ISTF

Output Message(s):

ABT: ISTF

MCC Display Page(s):

(ISTF PAGE)
ABT:IWGFAC
Software Release: 5E15 and later
Command Group: SM
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE
Requests that actions be aborted on an inter-working gateway facility (IWGFAC).

WARNING: This message causes the intended process to be purged. It also causes a SMABTREQ assert and a variable number of audit reports due to the purge. It is recommended that the STP verb be used under normal circumstances; ABT should only be used if the STP message fails.

2. FORMAT
ABT:IWGFAC=a-b-c;

3. EXPLANATION OF MESSAGE

a = Switch module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

b = Inter-working gateway (IWG) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

c = Inter-working gateway facility (IWGFAC) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

NG = No good. The message form is valid, but the request conflicts with the current status.

PF = Printout follows. Followed by the ABT:IWGFAC output message.

RL = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

Input Message(s):

RMV:IWGFAC
RST:IWGFAC

Output Message(s):

ABT:IWGFAC
Input Appendix(es):

APP: RANGES

Other Manual(s):
235-105-110  System Maintenance Requirements and Tools
235-105-220  Corrective Maintenance

MCC Display Page(s):

IWG
ABT:IWGLI

Software Release: 5E15 and later
Command Group: SM
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Requests that actions be aborted on an inter-working gateway link interface (IWGLI).

WARNING: This message causes the intended process to be purged. It also causes a SMABTREQ assert and a variable number of audit reports due to the purge. It is recommended that the STP verb be used under normal circumstances; ABT should only be used if the STP message fails.

2. FORMAT

ABT:IWGLI=a-b-c-d;

3. EXPLANATION OF MESSAGE

a = Switch module (SM) number. Refer to the APP:RANGE appendix in the Appendixes section of the Input Messages manual.

b = Inter-working gateway (IWG) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

c = Data group (DG) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

d = Inter-Working gateway link interface (IWGLI) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

NG = No good. The message form is valid, but the request conflicts with the current status.

PF = Printout follows. Followed by the ABT:IWGLI output message.

RL = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

Input Message(s):

DGN:IWGLI
RMV:IWGLI
RST:IWGLI

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Output Message(s):

ABT: IWGLI

Input Appendix(es):

APP: RANGES

MCC Display Page(s):

1340,y (IWG)

Other Manual(s):

235-105-110 System Maintenance Requirements and Tools
235-105-220 Corrective Maintenance
ABT:IWUFAC

Software Release: 5E16(1) and later
Command Group: SM
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Requests that actions be aborted on an inter-working unit facility (IWUFAC).

WARNING: This message causes the intended process to be purged. It also causes a SMABTREQ assert and a variable number of audit reports due to the purge. It is recommended that the STP verb be used under normal circumstances; ABT should only be used if the STP message fails.

2. FORMAT

ABT:IWUFAC=a-b-c;

3. EXPLANATION OF MESSAGE

a = Switch module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

b = Inter-working unit (IWU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

c = Inter-working unit facility (IWUFAC) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

NG = No good. The message form is valid, but the request conflicts with the current status.

PF = Printout follows. Followed by the ABT:IWUFAC output message.

RL = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

Input Message(s):

RMV:IWUFAC
RST:IWUFAC

Output Message(s):

ABT:IWUFAC
Input Appendix(es):

APP: RANGES

Other Manual(s):
235-105-110 System Maintenance Requirements and Tools
235-105-220 Corrective Maintenance

MCC Display Page(s):

IWU
ABT:LDSF

Software Release: 5E14 and later
Command Group: SM
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE
Aborts actions on the local digital service function (LDSF).

WARNING: This message causes the intended process to be purged. It also causes a SMABTREQ assert and a variable number of audit reports due to the purge. It is recommended that the STP verb be used under normal circumstances; ABT should only be used if the STP message fails.

2. FORMAT
ABT:{a,}LDSF=b-c;

3. EXPLANATION OF MESSAGE
a = Action being aborted (the default is the action currently executing on the LDSF circuit). Valid value(s):
   DGN = Diagnose.
   EX  = Exercise.
   RMV = Remove.
   RST = Restore.

b = Switching module (SM) number.

c = LDSF number.

4. SYSTEM RESPONSE
   NG = No good. The request has been denied because of a conflict with current status,
   PF = Printout follows. Followed by the ABT:LDSF output message.

5. REFERENCES
Input Message(s):
   DGN:LDSF
   EX:LDSF
   RMV:LDSF
   RST:LDSF
   STP:LDSF

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Output Message(s):

ABT : LDSF
ABT:LDSU

Software Release: 5E14 and later
Command Group: SM
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Aborts actions on the local digital service unit - model 2 (LDSU2).

WARNING: This message causes the intended process to be purged. It also causes a SMABTREQ assert and a variable number of audit reports due to the purge. It is recommended that the STP verb be used under normal circumstances; ABT should only be used if the STP message fails.

2. FORMAT

ABT:[a,]LDSU=b-c-d;

3. EXPLANATION OF MESSAGE

a = Action being aborted (the default is the action currently executing on the LDSU2 board). Valid value(s):
   DGN = Diagnose.
   EX  = Exercise.
   RMV = Remove.
   RST = Restore.

b = Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

c = Local digital service unit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

d = Service group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

NG = No good. The request has been denied because of a conflict with current status, or ABT:LDSU does not apply to model 1 DSUs.

PF = Printout follows. Followed by the ABT:LDSU output message.

5. REFERENCES

Input Message(s):

   DGN:LDSU
EX: LDSU
RMV: LDSU
RST: LDSU
STP: LDSU

Output Message(s):

ABT : LDSU

Input Appendix(es):

APP : RANGES
ABT:LDSUCOM

Software Release: 5E14 and later
Command Group: SM
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Requests that actions on the local digital service unit common (LDSUCOM) board be aborted at the specified location.

WARNING: This message causes the intended process to be purged. It also causes a SMABTREQ assert and a variable number of audit reports due to the purge. It is recommended that the STP verb be used under normal circumstances; ABT should only be used if the STP message fails.

2. FORMAT

ABT:[a,]LDSUCOM=b-c-d;

3. EXPLANATION OF MESSAGE

a = Action being aborted (the default is the action currently executing on the LDSUCOM board). Valid value(s):
  DGN = Diagnose.
  EX  = Exercise.
  RMV = Remove.
  RST = Restore.

b = Switching module number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

c = Local digital service unit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

d = Service group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

NG = No good. The request has been denied because of a conflict with current status.

PF = Printout follows. Followed by the ABT:LDSUCOM output message.

5. REFERENCES

Input Message(s):

  DGN : LDSUCOM

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EX: LDSUCOM
RMV: LDSUCOM
RST: LDSUCOM
STP: LDSUCOM

Output Message(s):

ABT: LDSUCOM

Input Appendix(es):

APP: RANGES
ABT:LI

Software Release: 5E14 and later
Command Group: CM
Application: 5
Type: Input

1. PURPOSE

Aborts a diagnostic or exercise on the link interface (LI) subunit of the specified office network and timing complex (ONTC).

"Abort" is differentiated from "stop" by the action of the request. An abort action is immediate and without regard to the state of the hardware, while "stop" will wait for a "clean" point of termination, (that is, the end of a phase) and will attempt to leave the hardware in a sane state.

NOTE 1: This message is only valid for offices with communication module model 1; (CM1) hardware.

NOTE 2: An 'ABT' should only be used if an 'STP' input message fails.

2. FORMAT

ABT:[a,L]I=b;

3. EXPLANATION OF MESSAGE

a = Action being aborted (default is any action currently waiting or executing on the LI). Valid value(s):
   DGN = Diagnose.
   EX  = Exercise.

b = Side of the ONTC that the LI is on.

4. SYSTEM RESPONSE

IP = In progress. The abort has been initiated. A completion message will be printed for the original request when the abort has completed.

NG = No good. The request has been denied. The message syntax is valid, but the request could not be processed. Refer to the APP:CM-IM-REASON appendix in the Appendixes section of the Input Messages manual for a list of possible reasons for denying the request.

5. REFERENCES

Input Message(s):
   DGN:LI
   EX:LI
   OP:DMQ

Output Message(s):
   OP:DMQ-CM

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Input Appendix(es):

APP: CM-IM-REASON
ABT:LIB

Software Release: 5E14 and later
Command Group: ADMIN
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Aborts the library program in the administrative module (AM) and/or switching modules (SMs) as specified, and the scratch area used in the SM for the library program is released.

WARNING: This input message can leave the resources used by the library program in an unknown state. It should only be used when a normal STP:LIB input message fails.

2. FORMAT

ABT:LIB:TEAM=a[,AM][,SM=b|,SM=c&&d];

3. EXPLANATION OF MESSAGE

a = Team number (1-15) to which this input message applies. This number is specified in the LOAD:LIB input message, and is used so that more than one person may test at the same time, using different team numbers.

b = SMs that this message should be directed to. The team specified must have a library program running in the SM(s) listed. There can be up to five SM numbers listed. A range could be used instead, as indicated.

c = The optional first SM in the range 'c' to 'd'.

d = The optional last SM in the range 'c' to 'd'.

NOTE: If neither the AM or any SMs are specified, the ABT:LIB message is sent to the AM and all SMs with clients loaded under the same team as those specified.

4. SYSTEM RESPONSE

NG = No good. Either the team number or SM number(s) is illegal. SMs that have not initialized cannot be sent messages.

PF = Printout follows. Message has been sent to the SMs/AM or team specified.

5. REFERENCES

Input Message(s):

LOAD:LIB
STP:LIB
ABT:LUCHAN

Software Release: 5E14 and later
Command Group: SM
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Requests that actions on the line unit channel (LUCHAN) be aborted at the specified location.

WARNING: This message causes the designated process to be purged. It also causes a SMABTREQ assert and a variable number of audit reports due to the purge. It is recommended that the STP verb be used under normal circumstances; ABT should only be used if the STP message fails.

2. FORMAT

ABT:[a,]LUCHAN=b-c-d-e-f;

3. EXPLANATION OF MESSAGE

a = Action being aborted (the default is the action currently executing on the LUCHAN). Valid value(s):
  DGN = Diagnose.
  EX = Exercise.
  RMV = Remove.
  RST = Restore.

b = Switching module number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

c = Line unit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

d = Service group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

e = Channel board number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

f = Channel number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

NG = No good. The request has been denied because of a conflict with current status.

PF = Printout follows. Followed by the ABT:LUCHAN output message.

5. REFERENCES
Input Message(s):
  DGN: LUCHAN
  EX: LUCHAN
  RMV: LUCHAN
  RST: LUCHAN
  STP: LUCHAN

Output Message(s):
  ABT: LUCHAN

Input Appendix(es):
  APP: RANGES
ABT:LUCHBD

Software Release: 5E14 and later
Command Group: SM
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Requests that actions on the line unit channel board (LUCHBD) be aborted at the specified location.

WARNING: This message causes the designated process to be purged. It also causes a SMABTREQ assert and a variable number of audit reports due to the purge. It is recommended that the STP verb be used under normal circumstances; ABT should only be used if the STP message fails.

2. FORMAT

ABT:[a,]LUCHBD=b-c-d-e;

3. EXPLANATION OF MESSAGE

a = Action being aborted (the default is the action currently executing on the LUCHBD). Valid value(s):
   DGN = Diagnose.
   RMV = Remove.
   RST = Restore.

b = Switching module number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

c = Line unit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

d = Service group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

e = Channel board number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

NG = No good. The request has been denied because of a conflict with current status.

PF = Printout follows. Followed by the ABT:LUCHBD output message.

5. REFERENCES

Input Message(s):

   DGN:LUCHBD
ABT:LUCOMC

Software Release: 5E14 and later  
Command Group: SM  
Application: 5  
Type: Input  

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Requests that actions on the line unit common control (LUCOMC) be aborted at the specified location.

WARNING: This message causes the intended process to be purged. It also causes a SMABTREQ assert and a variable number of audit reports due to the purge. It is recommended that the STP verb be used under normal circumstances; ABT should only be used if the STP message fails.

2. FORMAT

ABT: [a,]LUCOMC=b-c-d;

3. EXPLANATION OF MESSAGE

a

= Action being aborted (the default is the action currently executing on the LUCOMC). Valid value(s):
   DGN  = Diagnose.
   EX   = Exercise.
   RMV  = Remove.
   RST  = Restore.

b

= Switching module number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

c

= Line unit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

d

= Service group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

NG

= No good. The request has been denied because of a conflict with current status.

PF

= Printout follows. Followed by the ABT:LUCOMC output message.

5. REFERENCES

Input Message(s):

   DGN:LUCOMC
   EX:LUCOMC
RMV : LUCOMC
RST : LUCOMC
STP : LUCOMC

Output Message(s):
ABT : LUCOMC

Input Appendix(es):
APP : RANGES
ABT:LUHLSC
Software Release: 5E14 and later
Command Group: SM
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE
Requests that actions on the line unit high level service circuit (LUHLSC) be aborted at the specified location.

WARNING: This message causes a specified action to be purged. It also causes a SMABTREQ assert and a variable number of audit reports due to the purge. It is recommended that the STP verb be used under normal circumstances; ABT should only be used if the STP message fails.

2. FORMAT
ABT:[a,]LUHLSC=b-c-d-e;

3. EXPLANATION OF MESSAGE

a = Action being aborted (the default is the action currently executing on the LUHLSC). Valid value(s):
  DGN = Diagnose.
  EX  = Exercise.
  RMV = Remove.
  RST = Restore.

b = Switching module number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

c = Line unit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

d = Service group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

e = High-level service circuit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

NG = No good. The request has been denied because of a conflict with current status.

PF  = Printout follows. Followed by the ABT:LUHLSC output message.

5. REFERENCES
Input Message(s):
1. PURPOSE

Requests that actions on the metallic access (MA) circuit be aborted at the specified location.

WARNING: This message causes the specified action to be purged. It also causes a SMABTREQ assert and a variable number of audit reports due to the purge. It is recommended that the STP verb be used under normal circumstances; ABT should only be used if the STP message fails.

2. FORMAT

ABT:[a,]MA=b-c-d-e;

3. EXPLANATION OF MESSAGE

- **a**: Action being aborted (the default is the action currently executing on the MA circuit). Valid value(s):
  - DGN = Diagnose.
  - EX = Exercise.
  - RMV = Remove.
  - RST = Restore.

- **b**: Switching module number. Refer to the APP: RANGES appendix in the Appendixes section of the Input Messages manual.

- **c**: Metallic service unit number. Refer to the APP: RANGES appendix in the Appendixes section of the Input Messages manual.

- **d**: Service group number. Refer to the APP: RANGES appendix in the Appendixes section of the Input Messages manual.

- **e**: Metallic access board number. Refer to the APP: RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

- **NG**: No good. The request has been denied because of a conflict with current status.

- **PF**: Printout follows. Followed by the ABT:MA output message.

5. REFERENCES

Input Message(s):
DGN: MA
EX: MA
RMV: MA
RST: MA
STP: MA

Output Message(s):

ABT: MA

Input Appendix(es):

APP: RANGES
ABT:MAB

Software Release: 5E14 and later
Command Group: SM
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Requests that actions on the metallic access bus (MAB) be aborted at the specified locations.

WARNING: ABT causes the specified action to be purged. It causes an SMABTREQ assert and a variable number of audit reports due to the purge. The STP verb should normally be used. Use ABT only if STP fails.

2. FORMAT

ABT:\[a,\]MAB=b-c-d-e;

3. EXPLANATION OF MESSAGE

a  = Action being aborted. Default is the action currently executing on the MAB. Valid value(s):
    DGN  = Diagnose.
    EX   = Exercise.
    RMV  = Remove.
    RST  = Restore.

b  = Switching module number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

c  = Unit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

d  = Service group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

e  = Board number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

NG  = No good. The request has been denied. The message form is valid, but the request conflicts with current status.

PF  = Printout follows. Followed by ABT:MAB output message.

RL  = Retry later. The request cannot be executed due to unavailable system resources.

5. REFERENCES
Input Message(s):

   STP : MAB

Output Message(s):

   ABT : MAB

Input Appendix(es):

   APP : RANGES
ABT:MCTSI
Software Release: 5E14 and later
Command Group: SM
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE
Requests that actions on the module controller/time slot interchange (MCTSI) be aborted at the specified location.

WARNING: This message causes the specified action to be purged. It also causes a SMABTREQ assert and a variable number of audit reports due to the purge. It is recommended that the STP verb be used under normal circumstances; ABT should only be used if the STP message fails.

2. FORMAT
ABT:[a,]MCTSI=b-c;

3. EXPLANATION OF MESSAGE
   a = Action being aborted (the default is the action currently executing on the MCTSI). Valid value(s):
      DGN = Diagnose.
      EX  = Exercise.
      RMV = Remove.
      RST = Restore.

   b = Switching module number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

   c = Module control unit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE
   NG = No good. The request has been denied because of a conflict with current status.
   PF = Printout follows. Followed by the ABT:MCTSI output message.

5. REFERENCES
Input Message(s):
   DGN:MCTSI
   EX:MCTSI
   RMV:MCTSI
   RST:MCTSI
   STP:MCTSI
Output Message(s):

   ABT:MCTSI

Input Appendix(es):

   APP: RANGES
ABT:MI

- **Software Release**: 5E14 and later
- **Command Group**: CM
- **Application**: 5
- **Type**: Input

1. **PURPOSE**

Aborts a diagnostic or exercise on the message interface (MI) on the specified office network and timing complex (ONTC).

Abort is differentiated from stop by the action of the request. An abort action is immediate, without regard for the state of the hardware, while 'stop' will wait for a 'clean' point of termination (such as, the end of a phase), and will attempt to leave the hardware in a " sane" state.

**NOTE**: Abort should only be used if an 'STP' input message fails.

2. **FORMAT**

\[ \text{ABT:} [a,] \text{MI=b;} \]

3. **EXPLANATION OF MESSAGE**

- **a** = Action being aborted (default is any action currently waiting or executing on the MI). Valid value(s):
  - **DGN** = Diagnose.
  - **EX** = Exercise.

- **b** = Side of ONTC that the MI is on.

4. **SYSTEM RESPONSE**

- **IP** = In progress. The abort has been initiated. A completion message will be printed for the original request when the abort has completed.

- **NG** = No good. The request has been denied. The message syntax is valid, but the request could not be processed. Refer to the APP:CM-IM-REASON appendix in the Appendixes section of the Input Messages manual for a list of possible reasons for denying the request.

5. **REFERENCES**

Input Message(s):

- **DGN:MI**
- **EX:MI**
- **OP:DMQ**

Output Message(s):

- **OP:DMQ-CM**
Input Appendix(es):

APP: CM-IM-REASON
ABT:MICU

Software Release: 5E14 and later
Command Group: CM
Application: 5
Type: Input

1. PURPOSE

Requests that a diagnostic or exercise be aborted on a message interface and clock unit (MICU) subunit of the office network and timing complex (ONTC).

2. FORMAT

ABT: [a,]MICU=b;

3. EXPLANATION OF MESSAGE

   a = Action being aborted (default is the action currently executing on the MICU). Valid value(s):
       DGN = Diagnose.
       EX  = Exercise.

   b = Side of ONTC that the MICU is on.

4. SYSTEM RESPONSE

   NG = No good. The message format was correct but the request conflicts with current status.

   OK = Good. The action will be aborted.

5. REFERENCES

Input Message(s):

   DGN:MICU
   OP:DMQ

Output Message(s):

   OP:DMQ
   OP:DMQ-CM
   OP:DMQ-SM
1. PURPOSE

Requests that actions on the specified module message processor (MMP) be aborted.

Abort is differentiated from 'stop' by the action of the request. An abort action is immediate, without regard for the state of the hardware, while 'stop' will wait for a 'clean' point of termination, (for example, the end of a phase) and will attempt to leave the hardware in a sane state.

Note: Abort should only be used if an 'STP' message fails.

2. FORMAT

`ABT: [a,]MMP=b-c;`

3. EXPLANATION OF MESSAGE

- **a** = Action being aborted. The default is any action currently waiting or executing on the specified unit.
  - Valid value(s):
    - **DGN** = Diagnose. (Not valid for CM3)
    - **EX** = Exercise. (Not valid for CM3)
    - **RST** = Restore.

- **b** = Message switch number.

- **c** = MMP logical identification number.

4. SYSTEM RESPONSE

- **IP** = In progress. The abort has been initiated. A completion message will be printed for the original request when the abort has completed.

- **NG** = No good. The request has been denied. The message syntax is valid, but the request could not be processed. Refer to the APP:CM-IM-REASON appendix in the Appendixes section of the Input Messages manual for a list of possible reasons for denying the request.

5. REFERENCES

Input Message(s):

- **DGN:MMP**
- **EX:MMP**
- **OP:DMQ**
- **RST:MMP**
Output Message(s):

DGN: MMP
EX: MMP
OP: DMQ–CM
RST: MMP

Input Appendix(es):

APP: CM–IM–REASON

Other Manual(s):
235-070-100  Administration and Engineering Guidelines
235-100-125  System Description
235-105-250  System Recovery Procedures
1. PURPOSE

Aborts an action on the message switch control unit (MSCU) on the specified message switch (MSGS).

Abort is differentiated from stop by the action of the request. An abort action is immediate, not caring about the state of the hardware, while 'stop' will wait for a 'clean' point of termination, (for example, the end of a phase) and will attempt to leave the hardware in a sane state.

Note: Abort should only be used if an 'STP' input message fails.

2. FORMAT

ABT: [a,]MSCU=b;

3. EXPLANATION OF MESSAGE

   a  = Action being aborted (default is any action currently waiting or executing on the MSCU). Valid value(s):
     DGN  = Diagnose. (Not valid for CM3)
     EX   = Exercise. (Not valid for CM3)
     RST  = Restore.

   b  = Side of MSGS that the MSCU is on.

4. SYSTEM RESPONSE

   IP  = In progress. The abort has been initiated. A completion message will be printed for the original request when the abort has completed.

   NG  = No good. The request has been denied. The message syntax is valid, but the request could not be processed. Refer to the APP:CM-IM-REASON appendix in the Appendixes section of the Input Messages manual for a list of possible reasons for denying the request.

5. REFERENCES

Input Message(s):

   DGN:MSCU
   EX:MSCU
   OP:DMQ
   RST:MSCU
   STP:MSCU

Output Message(s):
ABT:MSGS

**Software Release:** 5E14 and later
**Command Group:** CM
**Application:** 5
**Type:** Input

1. **PURPOSE**

Aborts actions on a message switch (MSGS).

Abort is differentiated from 'stop' by the action of the request. An abort action is immediate, not caring about the state of the hardware, while 'stop' will wait for a 'clean' point of termination, for example, (the end of a phase) and will attempt to leave the hardware in a sane state.

**NOTE:** Abort should only be used if an 'STP' input message fails.

2. **FORMAT**

ABT: [a,] MSGS=b;

3. **EXPLANATION OF MESSAGE**

   a
   
   = Action being aborted. The default is any action currently waiting or executing on the MSGS. Valid value(s):
   
<p>| | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>DGN</td>
<td>Diagnose.</td>
</tr>
<tr>
<td>RST</td>
<td>Restore.</td>
</tr>
</tbody>
</table>

   b
   
   = MSGS number.

4. **SYSTEM RESPONSE**

   IP
   
   = In progress. The abort has been initiated. A completion message will be printed for the original request when the abort has completed.

   NG
   
   = No good. The request has been denied. The message syntax is valid, but the request could not be processed. Refer to the APP:CM-IM-REASON appendix in the Appendixes section of the Input Messages manual for a list of possible reasons for denying the request.

5. **REFERENCES**

**Input Message(s):**

- DGN:MSGS
- OP:DMQ
- RST:MSGS

**Output Message(s):**

- DGN:MSGS
- OP:DMQ-CM
- RST:MSGS
Input Appendix(es):

APP : CM–IM–REASON
1. PURPOSE

Requests that actions on the metallic service unit common (MSUCOM) board be aborted at the specified location.

WARNING: This message causes the intended process to be purged. It also causes a SMABTREQ assert and a variable number of audit reports due to the purge. It is recommended that the STP verb be used under normal circumstances; ABT should only be used if the STP message fails.

2. FORMAT

ABT: [a,b,c,d];

3. EXPLANATION OF MESSAGE

a = Action being aborted. The default is the action currently executing on the MSUCOM board. Valid value(s):
   DGN = Diagnose.
   EX  = Exercise.
   RMV = Remove.
   RST = Restore.

b = Switching module number. Refer to the APP: RANGES appendix in the Appendixes section of the Input Messages manual.

c = Metallic service unit number. Refer to the APP: RANGES appendix in the Appendixes section of the Input Messages manual.

d = Service group number. Refer to the APP: RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

NG = No good. The request has been denied because of a conflict with current status.

PF = Printout follows. Followed by the ABT:MSUCOM output message.

5. REFERENCES

Input Message(s):
   DGN:MSUCOM
   EX:MSUCOM
ABT:MTB

Software Release: 5E14 and later
Command Group: SM
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Requests that actions on the metallic access (MTB) circuit be aborted at the specified location.

WARNING: This message causes the specified action to be purged. It also causes a SMABTREQ assert and a variable number of audit reports due to the purge. It is recommended that the STP verb be used under normal circumstances; ABT should only be used if the STP message fails.

2. FORMAT

ABT:[a,]MTB=b-c-d-e-f;

3. EXPLANATION OF MESSAGE

a = Action being aborted (the default is the action currently executing on the MTB circuit). Valid value(s):
   DGN = Diagnose.
   EX = Exercise.
   RMV = Remove.
   RST = Restore.

b = Switching module number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

c = Metallic service unit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

d = Service group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

e = Metallic access board number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

f = Metallic access test bus number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

NG = No good. The request has been denied because of a conflict with current status.

PF = Printout follows. Followed by the ABT:MTB output message.
5. REFERENCES

Input Message(s):

DGN: MTB
EX: MTB
RMV: MTB
RST: MTB
STP: MTB

Output Message(s):

ABT: MTB

Input Appendix(es):

APP: RANGES

MCC Display Page(s):

1135/1145 (MSU MA STATUS)
ABT:MTIB

Software Release: 5E14 and later
Command Group: SM
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Requests that actions on the metallic test interconnect bus (MTIB) be aborted at the specified locations.

WARNING: This message causes the intended process to be purged. It also causes a SMABTREQ assert and a variable number of audit reports due to the purge. It is recommended that the STP verb be used under normal circumstances; ABT should only be used if the STP message fails.

2. FORMAT

ABT: [a,]MTIB=b;

3. EXPLANATION OF MESSAGE

a = Action being aborted (default is the action currently executing on the MTIB). Valid value(s):
   DGN = Diagnose.
   EX  = Exercise.
   RMV = Remove.
   RST = Restore.

b = MTIB number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

NG = No good. The request has been denied. The message form is valid, but the request conflicts with current status.

PF = Printout follows. Followed by ABT:MTIB output message.

RL = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

Input Message(s):
   STP:MTIB

Output Message(s):
   ABT:MTIB
Input Appendix(es):

APP : RANGES
ABT:MTIBAX

Software Release: 5E14 and later
Command Group: SM
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Requests that actions on the metallic test interconnect bus access (MTIBAX) be aborted at the specified locations.

WARNING: This message causes the intended process to be purged. It also causes a SMABTREQ assert and a variable number of audit reports due to the purge. It is recommended that the STP verb be used under normal circumstances; ABT should only be used if the STP message fails.

2. FORMAT

ABT: [a,] MTIBAX=b-c-d-e;

3. EXPLANATION OF MESSAGE

a = Action being aborted (default is the action currently executing on the MTIBAX). Valid value(s):
   DGN = Diagnose.
   EX = Exercise.
   RMV = Remove.
   RST = Restore.

b = Switching module number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

c = Unit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

d = Service group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

e = Board number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

NG = No good. The request has been denied. The message form is valid, but the request conflicts with current status.

PF = Printout follows. Followed by ABT:MTIBAX output message.

RL = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES
Input Message(s):
  STP: MTIBAX

Output Message(s):
  ABT: MTIBAX

Input Appendix(es):
  APP: RANGES
ABT:NC

Software Release: 5E14 and later
Command Group: CM
Application: 5
Type: Input

1. PURPOSE

Aborts a diagnostic procedure or exercise of the network clock (NC) on the specified office network and timing complex (ONTC).

Abort is differentiated from stop by the action of the request. An abort action is immediate, not caring about the state of the hardware, while 'stop' will wait for a 'clean' point of termination, (such as, the end of a phase) and will attempt to leave the hardware in a "sane" state.

NOTE: Abort should only be used if an 'STP' input message fails.

2. FORMAT

ABT:[a,]NC=b;

3. EXPLANATION OF MESSAGE

a = Action being aborted (default is any action currently waiting or executing on the NC). Valid value(s):
   DGN = Diagnose.
   EX  = Exercise.

b = Side of ONTC that the NC is on.

4. SYSTEM RESPONSE

IP = In progress. The abort has been initiated. A completion message will be printed for the original request when the abort has completed.

NG = No good. The request has been denied. The message syntax is valid, but the request could not be processed. Refer to the APP:CM-IM-REASON appendix in the Appendixes section of the Input Messages manual for a list of possible reasons for denying the request.

5. REFERENCES

Input Message(s):
   DGN:NC
   OP :DMQ
   STP:NC

Output Message(s):
   DGN:NC
   OP :DMQ-CM

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Input Appendix(es):

APP:CM–IM–REASON
ABT:NLI

Software Release: 5E14 and later
Command Group: CM
Application: 5
Type: Input

1. PURPOSE

Aborts an action on a specific network link interface (NLI).

"Abort" is differentiated from "stop" by the action of the request. An abort action is immediate and without regard for the state of the hardware, while "stop" waits for a "clean" point of termination, (that is, the end of a phase) and attempts to leave the hardware in a correct state.

NOTE: An 'ABT' should only be used if an 'STP' input message fails.

2. FORMAT

ABT: [a,]NLI=b-c-d;

3. EXPLANATION OF MESSAGE

a = Action being aborted (default is any action currently waiting or executing on the NLI). Valid value(s):
   DGN = Diagnose.
   EX  = Exercise.
   RST = Restore.

NOTE: A remove or unconditional restore cannot be stopped once it is accepted.

b = Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

c = NLI number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

d = ONTC side number.

4. SYSTEM RESPONSE

IP = In progress. The abort has been initiated. A completion message is printed for the original request when the abort has completed.

NG = No good. The request has been denied. The message syntax is valid, but the request could not be processed. Refer to the APP:CM-IM-REASON appendix in the Appendixes section of this manual for a list of possible reasons for denying the request.

5. REFERENCES

Input Message(s):
   DGN:NLI
EX: NLI
OP: DMQ-CM-SM
RST: NLI
STP: NLI

Output Message(s):

DGN: NLI
EX: NLI
OP: DMQ-CM
OP: DMQ-SM
RST: NLI

Input Appendix(es):

APP: CM-IM-REASON

Other Manual(s):
235-105-110  System Maintenance Requirements and Tools
235-105-220  Corrective Maintenance Procedures
235-105-250  System Recovery Procedures

MCC Display Page(s):
1190 (MCTSI)
1200 (DLI/NLI)
ABT:OC3

Software Release: 5E16(1) and later
Command Group: SM
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Requests that the currently executing maintenance action on an optical carrier - level 3 (OC3) be aborted.

WARNING: The ABT command causes the intended process to be purged. It can also cause a variable number of other purges, asserts and audit reports. Under normal circumstances, use the STP verb; use ABT only if the STP command fails. Service-affecting aborts tear down any calls on the specified OC3 circuit.

2. FORMAT

ABT: [a,] OC3=b-c-d-e-f;

3. EXPLANATION OF MESSAGE

- **a** = Action being aborted (default is the currently executing action). Valid value(s):
  - RMV = Remove.
  - RST = Restore.

- **b** = Switching module (SM) number. Refer to the APP: RANGES appendix in the Appendixes section of the Input Messages manual.

- **c** = Optical interface unit (OIU) number. Refer to the APP: RANGES appendix in the Appendixes section of the Input Messages manual.

- **d** = Protection group (PG) number. Refer to the APP: RANGES appendix in the Appendixes section of the Input Messages manual.

- **e** = OC3 number. Refer to the APP: RANGES appendix in the Appendixes section of the Input Messages manual.

- **f** = Side number. Refer to the APP: RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

- **NG** = No good. The message form is valid, but the request conflicts with current status.

- **PF** = Printout follows. Followed by the ABT: OC3 output message.

- **RL** = Retry later. The request cannot be executed now due to unavailable system resources.
5. REFERENCES

Input Message(s):

RMV:OC3
RST:OC3
STP:OC3

Output Message(s):

ABT:OC3

Input Appendix(es):

APP: RANGES

Other Manual(s):
235-105-110  System Maintenance Requirements and Tools
235-105-220  Corrective Maintenance

MCC Display Page(s):
1491          OIU OC3 STATUS
ABT:OC3C

**Software Release:** 5E16(2) and later
**Command Group:** SM
**Application:** 5
**Type:** Input

**WARNING:** INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. **PURPOSE**

Requests that the currently executing maintenance action on an optical carrier - level 3 concatenated (OC3C) facility be aborted.

**WARNING:** The ABT command causes the intended process to be purged. It can also cause a variable number of other purges, asserts and audit reports. Under normal circumstances, use the STP verb; use ABT only if the STP command fails. Service-affecting aborts tear down any calls on the specified OC3C facility.

2. **FORMAT**

ABT: [a,]OC3C=b-c-d-e-f;

3. **EXPLANATION OF MESSAGE**

- **a**  = Action being aborted (default is the currently executing action). Valid value(s):
  - **RMV**  = Remove.
  - **RST**  = Restore.

- **b**  = Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

- **c**  = Optical interface unit (OIU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

- **d**  = Protection group (PG) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

- **e**  = OC3C number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

- **f**  = Side number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. **SYSTEM RESPONSE**

- **NG**  = No good. The message form is valid, but the request conflicts with current status.

- **PF**  = Printout follows. Followed by the ABT:OC3C output message.

- **RL**  = Retry later. The request cannot be executed now due to unavailable system resources.
5. REFERENCES

Input Message(s):

RMV: OC3C
RST: OC3C
STP: OC3C

Output Message(s):

ABT: OC3C

Input Appendix(es):

APP: RANGES

Other Manual(s):
235-105-110 System Maintenance Requirements and Tools
235-105-220 Corrective Maintenance

MCC Display Page(s):
1491 OIU OC3C STATUS
ABT:ODDBKUP

Software Release: 5E14 and later
Command Group: ODD
Application: 5
Type: Input

1. PURPOSE
Requests that office-dependent data (ODD) backup be aborted.

2. FORMAT
ABT:ODDBKUP;

3. EXPLANATION OF MESSAGE
No variables.

4. SYSTEM RESPONSE

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>IP</td>
<td>In progress. The request has been initiated. The ABT:ODDBU output message will follow.</td>
</tr>
<tr>
<td>NA</td>
<td>The message was not received by the backup control process. The backup control process was preparing a module for backup and could not reply immediately. If it is known that a module is being backed up and the abort is still necessary, then re-try the message.</td>
</tr>
<tr>
<td>NG</td>
<td>No good. The input request is not valid.</td>
</tr>
<tr>
<td>OK</td>
<td>Good. The request was accepted and completed. The ABT:ODDBU output message will follow.</td>
</tr>
</tbody>
</table>

5. REFERENCES
Input Message(s):

- BKUP: ODD
- CLR: ODDBKUP
- OP: BKUPSTAT

Output Message(s):

- ABT:ODDBU

Other Manual(s):
235-105-210   Routine Operations and Maintenance.
ABT:OFI

Software Release: 5E16(1) and later
Command Group: SM
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Requests that the currently executing maintenance action on an optical facility interface (OFI) be aborted.

WARNING: The ABT command causes the intended process to be purged. It can also cause a variable number of other purges, asserts and audit reports. Under normal circumstances, use the STP verb; use ABT only if the STP command fails. Service-affecting aborts tear down any calls on the specified OFI circuit.

2. FORMAT

ABT: [a,] OFI=b-c-d-e;

3. EXPLANATION OF MESSAGE

a = Action being aborted (default is the currently executing action). Valid value(s):
   DGN = Diagnose.
   RMV = Remove.
   RST = Restore.

b = Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

c = Optical interface unit (OIU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

d = Protection group (PG) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

e = Side number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

NG = No good. The message form is valid, but the request conflicts with the current status.

PF = Printout follows. Followed by the ABT:OFI output message.

RL = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES
Input Message(s):
  DGN:OFI
  RMV:OFI
  RST:OFI
  STP:OFI

Output Message(s):
  ABT:OFI

Input Appendix(es):
  APP:RANGES

MCC Display Page(s):
  1490       OIU STATUS
ABT:OFR

Software Release: 5E14 and later
Command Group: RCV
Application: 5
Type: Input

1. PURPOSE

Requests that all current processing on the on-line office records report generator be aborted. Any office record forms print requests scheduled by the OP:OFR-CAT input message are removed unless the DELAY option was specified.

2. FORMAT

ABT:OFR;

3. EXPLANATION OF MESSAGE

No variables.

4. SYSTEM RESPONSE

NG = No good. Invalid request. Followed by an ABT:OFR output message.
PF = Printout follows. Valid request. Output message ABT:OFR follows.

5. REFERENCES

Input Message(s):

OP:OFR-CAT
OP:OFR-FORM
OP:OFR-STATUS

Output Message(s):

ABT:OFR
STOP:OFR
ABT:ONTC

Software Release: 5E14 and later
Command Group: CM
Application: 5
Type: Input

1. PURPOSE

Aborts a diagnostic or conditional restore request on the specified office network and timing complex (ONTC).

Abort is differentiated from stop by the action of the request. An abort action is immediate, without regard for the state of the hardware, while 'stop' will wait for a 'clean' point of termination, (such as, the end of a phase) and will attempt to leave the hardware in a "sane" state.

NOTE: Abort should only be used if an 'STP' input message fails.

2. FORMAT

ABT: [a,] ONTC=b;

3. EXPLANATION OF MESSAGE

a = Action being aborted (default is any action currently waiting or executing on the ONTC). Valid value(s):
   DGN = Diagnose.
   RST = Conditional restore.

   NOTE: A removal, unconditional restoration, or switch cannot be aborted once it is accepted.

b = Side of the ONTC.

4. SYSTEM RESPONSE

   IP = In progress. The abort has been initiated. A completion message will be printed for the original request when the abort has completed.

   NG = No good. The request has been denied. The message syntax is valid, but the request could not be processed. Refer to the APP:CM-IM-REASON appendix in the Appendixes section of the Input Messages manual for a list of possible reasons for denying the request.

5. REFERENCES

Input Message(s):

   DGN:ONTC
   OP:DMQ-CM-SM
   RST:ONTC
   STP:ONTC
   SW:ONTC

Output Message(s):
ABT:ONTCCOM
Software Release: 5E14 and later
Command Group: CM
Application: 5
Type: Input

1. PURPOSE
Aborts an action on the specified office network and timing common units (ONTCCOM). The ONTCCOM is made up of the following entities:

- Message interface (MI).
- Network clock (NC).
- Time multiplexed switch (TMS) excluding the network control and timing links (NCTLNKs).
- Link interface (LI), which exists only in the communication module model 1 (CM1) hardware.

Abort is differentiated from stop by the action of the request. An abort action is immediate, without regard for the state of the hardware, while 'stop' will wait for a 'clean' point of termination, (that is, the end of a phase) and will attempt to leave the hardware in a sane state.

NOTE: Abort should only be used if an 'STP' input message fails.

2. FORMAT
ABT:[a,]ONTCCOM=b;

3. EXPLANATION OF MESSAGE
a = Action being aborted (default is any action currently waiting or executing on the ONTC). Valid value(s):
   DGN = Diagnose.
   RST = Restore.

   NOTE: A removal, unconditional restoration, or switch cannot be aborted once it is accepted.

b = ONTC common side.

4. SYSTEM RESPONSE
IP = In progress. The abort has been initiated. A completion message will be printed for the original request when the abort has completed.

NG = No good. The request has been denied. The message syntax is valid, but the request could not be processed. Refer to the APP:CM-IM-REASON appendix in the Appendixes section of the Input Messages manual for a list of possible reasons for denying the request.

5. REFERENCES
Input Message(s):

DGN: ONTCCOM  
OP: DMQ  
RST: ONTCCOM

Output Message(s):

DGN: ONTCCOM  
OP: DMQ-CM  
RST: ONTCCOM

Input Appendix(es):

APP: CM–IM–REASON
ABT:OTO

Software Release: 5E14 and later
Command Group: TRKLN
Application: 5
Type: Input

1. PURPOSE

Aborts the specified office-to-office (OTO) task. If directory number (DN), SLC® line equipment number (SLEN), integrated digital carrier unit (IDCU) line equipment number (ILEN), digital network equipment number(INEN), and OTO request number are omitted, all currently active OTO tasks will be aborted.

2. FORMAT

ABT:OTO[,NPA=1][,h];

3. EXPLANATION OF MESSAGE

a = Three-digit office code.
b = Local digits.
c = Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
d = Digital carrier line unit (DCLU) number.
e = Remote terminal (RT) number.
f = RT line number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

Note: If a DN, SLEN, ILEN, INEN or request number are not specified, then all active office-to-office tasks are aborted.

g = Integrated digital carrier unit (IDCU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
h = Valid value(s):

<table>
<thead>
<tr>
<th>DN=a-b</th>
<th>ILEN=c-g-e-f</th>
<th>INEN=c-j-k-f</th>
<th>REQ=i</th>
<th>SLEN=c-d-e-f</th>
</tr>
</thead>
</table>

i = OTO request number of task to be aborted. The request number can be found on the printout follows (PF) acknowledgement message of the EX:OTO input message that is to be aborted. In addition, it is displayed on all EX:OTO output messages associated with that task.

j = Digital network unit (DNU) number.

k = Remote terminal (RT) number.

l = Numbering Plan Area or Area Code of the DN.
4. SYSTEM RESPONSE

NG = No good. No office-to-office tasks are currently active, or specified task not found to be currently active. Valid value(s):
- OTO NOT ACTIVE
- REQ NOT ACTIVE
- STARTING DN NOT ACTIVE
- STARTING SLEN NOT ACTIVE
- STARTING ILEN NOT ACTIVE
- STARTING NPA & DN NOT ACTIVE

PF = Printout follows. The request is accepted and the specified task(s) will be aborted. An EX:OTO output message will follow.

5. REFERENCES

Input Message(s):
EX:OTO

Output Message(s):
EX:OTO

Input Appendix(es):
APP:RANGES

Other Manual(s):
235-105-200 Precutover and Cutover Procedures
ABT:PAG

Software Release: 5E16(1) and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Requests the actions be aborted on a network interface.

2. FORMAT

ABT:PAG=a-b,~NETINTF=c;

3. EXPLANATION OF MESSAGE

a = Switch module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

b = Packet access gateway (PAG) component number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

c = Network interface number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

NG = No good. The message form is valid, but the request conflicts with the current status.

PF = Printout follows. Followed by the ABT:PAG output message.

RL = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

Output Message(s):

ABT:PAG

Input Appendix(es):

APP:RANGES

Other Manual(s):
235-105-110 System Maintenance Requirements and Tools
235-105-220 Corrective Maintenance

MCC Display Page(s):
1342,y PAG
ABT:PCTDX

**Software Release:** 5E14 and later  
**Command Group:** SM  
**Application:** 5  
**Type:** Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. **PURPOSE**

Requests that actions be aborted on a peripheral control and timing data exchanger (PCTDX)

**WARNING:** This message causes the intended process to be purged. It also causes a SMABTREQ assert and a variable number of audit reports due to the purge. It is recommended that the STP verb be used under normal circumstances; ABT should only be used if the STP message fails.

2. **FORMAT**

ABT:PCTDX=a-b-c;

3. **EXPLANATION OF MESSAGE**

   a  
   Switch Module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

   b  
   Peripheral control and timing data exchanger unit (PDXU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

   c  
   Peripheral control and timing data exchanger (PCTDX) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. **SYSTEM RESPONSE**

   NG  
   = No good. The request has been denied. The message form is valid, but the request conflicts with the current status.

   PF  
   = Printout follows. Followed by the ABT:PCTDX output message.

   RL  
   = Retry later. The request cannot be executed now due to unavailable system resources.

5. **REFERENCES**

Input Message(s):

   DGN:PCTDX  
   RMV:PCTDX  
   RST:PCTDX

Output Message(s):
Input Appendix(es):

APP : RANGES

Other Manual(s):

235-105-110  System Maintenance Requirements and Tools
235-105-220  Corrective Maintenance

MCC Display Page(s):

1330,y (PDXU)
1. PURPOSE

Aborts the currently executing action on the peripheral control and timing (PCT) link.

WARNING: This command causes the intended process to be purged. It can also cause a variable number of other purges, asserts, and audit reports. Under normal circumstances, use the STP command. Use ABT only if the STP command fails. Service-affecting aborts tear down any calls on the specified PCT line and trunk unit link circuit.

2. FORMAT

ABT: [a,]PLTLK=b-c-d-e;

3. EXPLANATION OF MESSAGE

a = Action to be aborted (default is the action currently executing on the PLTLK). Valid value(s):
   DGN = Diagnose.
   RMV = Remove.
   RST = Restore.

b = Switching module (SM) number. Refer to the APP: RANGES appendix in the Appendixes section of the Input Messages manual.

c = PLTU number. Refer to the APP: RANGES appendix in the Appendixes section of the Input Messages manual.

d = PCT facility interface number. Refer to the APP: RANGES appendix in the Appendixes section of the Input Messages manual.

e = PCT facility interface number. Refer to the APP: RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

NG = No good. The message form is valid, but the request conflicts with the current status.

PF = Printout follows. An ABT:PLTLK output message will follow.

RL = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES
Input Message(s):

DGN: PLTLK
RMV: PLTLK
RST: PLTLK
STP: PLTLK
SW: PLTLK

Output Message(s):

ABT: PLTLK

Input Appendix(es):

APP: RANGES

MCC Display Page(s):

1430 (PLTU Status Page)
ABT:PMU

Software Release: 5E14 and later
Command Group: SM
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Requests that actions on the precision measurement unit (PMU) be aborted at the specified location.

WARNING: This message causes the intended process to be purged. It also causes a SMABTREQ assert and a variable number of audit reports due to the purge. It is recommended that the STP verb be used under normal circumstances; ABT should only be used if the STP message fails.

2. FORMAT

ABT: [a,b,c,d];

3. EXPLANATION OF MESSAGE

a = Action being aborted. The default is the action currently executing on the PMU. Valid value(s):
DGN = Diagnose.
EX = Exercise.
RMV = Remove.
RST = Restore.

b = Switching module number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

c = Directly connected test unit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

d = Circuit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

NG = No good. The request has been denied because of a conflict with current status.
PF = Printout follows. Followed by the ABT:PMU output message.

5. REFERENCES

Input Message(s):

DGN:PMU
EX:PMU
RMV:PMU
RST : PMU

Output Message(s):
ABT : PMU

Input Appendix(es):
APP : RANGES
ABT:PPC

Software Release: 5E14 and later
Command Group: CM
Application: 5
Type: Input

1. PURPOSE

Aborts actions on the specified pump peripheral controller (PPC).

Abort is differentiated from 'stop' by the action of the request. An abort action is immediate, without regard for the state of the hardware, while 'stop' will wait for a 'clean' point of termination, (that is, the end of a phase) and will attempt to leave the hardware in a sane state.

Note: An 'ABT' should only be used if an 'STP' input message fails.

2. FORMAT

ABT:[a,]PPC=b;

3. EXPLANATION OF MESSAGE

a = Action being aborted. The default is any action currently waiting or executing on the PPC. Valid value(s):
   DGN = Diagnose. (Not valid for CM3)
   EX = Exercise. (Not valid for CM3)
   RST = Restore.

b = PPC number.

4. SYSTEM RESPONSE

IP = In progress. The abort has been initiated. A completion message will be printed for the original request when the abort has completed.

NG = No good. The request has been denied. The message syntax is valid, but the request could not be processed. Refer to the APP:CM-IM-REASON appendix in the Appendixes section of the Input Messages manual for a list of possible reasons for denying the request.

5. REFERENCES

Input Message(s):

DGN:PPC
EX:PPC
OP:DMQ
RST:PPC

Output Message(s):

DGN:PPC
EX: PPC
OP: DMQ-CM
RST: PPC

Input Appendix(es):

APP: CM-IM-REASON
ABT:PPMTC

Software Release: 5E14 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Requests that a specified action on the periodic pulse metering circuit (PPMTC) be aborted.

2. FORMAT

ABT: [a,]PPMTC=b-c-d-e;

3. EXPLANATION OF MESSAGE

a = Action to be aborted. Valid value(s):
   DGN = Diagnose.
   EX = Exercise.
   RMV = Remove.
   RST = Restore.

NOTE: The default is the action currently executing in the PPMTC.

b = Switching module (SM) number.

c = Modular metallic service unit number.

d = Service group.

e = Board number.

4. SYSTEM RESPONSE

NG = No good. The request has been denied. The message is valid but the request conflicts with the current status.

PF = Printout follows.

RL = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

MCC Display Page(s):

113Y,X (MSU Y SG 0)
114Y,X (MSU Y SG 1)
ABT:PPPLK

Software Release: 5E16(2) and later
Command Group: SM
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Requests that the currently executing maintenance action on an optical interface unit (OIU) point to point protocol link (PPPLK) be aborted.

WARNING: The ABT command causes the intended process to be purged. It can also cause a variable number of other purges, asserts and audit reports. Under normal circumstances, use the STP verb; use ABT only if the STP command fails. Service-affecting aborts tear down any calls on the specified OIU protection group (PG).

2. FORMAT

ABT: [a,] PPPLK=b-c-d-e-f;

3. EXPLANATION OF MESSAGE

a = Action being aborted (default is the currently executing action). Valid value(s):
   RMV = Remove.
   RST = Restore.

b = Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

c = OIU number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

d = PG number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

e = Optical carrier - level 3 concatenated (OC3C) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

f = Synchronous transport signal level 3 concatenated (STS3C) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

NG = No good. The message form is valid, but the request conflicts with current status.

PF = Printout follows. Followed by the ABT:PPPLK output message.

RL = Retry later. The request cannot be executed now due to unavailable system resources.
5. REFERENCES

Input Message(s):
- RMV:PPPLK
- RST:PPPLK
- STP:PPPLK

Output Message(s):
- ABT:PPPLK

Input Appendix(es):
- APP:RANGES

Other Manual(s):
- 235-105-110  System Maintenance Requirements and Tools
- 235-105-220  Corrective Maintenance

MCC Display Page(s):
- 1494  OIU PKT STATUS
ABT:PROTO

Software Release: 5E14 and later
Command Group: SM
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Requests that actions on the protocol circuit (PROTO) be aborted at the specified locations.

**WARNING:** This message causes the intended process to be purged. It also causes a SMABTREQ assert and a variable number of audit reports due to the purge. It is recommended that the STP verb be used under normal circumstances; ABT should only be used if the STP message fails.

2. FORMAT

ABT: [a,]PROTO=b-c-d;

3. EXPLANATION OF MESSAGE

- **a** = Action being aborted (default is the action currently executing on the PROTO). Valid value(s):
  - DGN = Diagnose.
  - EX = Exercise.
  - RMV = Remove.
  - RST = Restore.

- **b** = Switching module number.

- **c** = Unit number.

- **d** = Service group number.

4. SYSTEM RESPONSE

- **NG** = No good. The request has been denied. The message form is valid, but the request conflicts with current status.

- **PF** = Printout follows. Followed by ABT:PROTO output message.

- **RL** = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

Input Message(s):

STP:PROTO
Output Message(s):

ABT : PROTO
ABT:PSUCOM-A

Software Release: 5E14 - 5E15
Command Group: SM
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

To abort actions on either a packet switch unit (PSU), common controller (COM).

NOTE: Execution of this input message may require further action to put the unit into a sane state. Refer to the References section of this message.

WARNING: This message causes the intended process to be purged. It also causes a SMABTREQ assert and a variable number of audit reports due to the purge. It is recommended that the STP verb be used under normal circumstances; ABT should only be used if the STP message fails.

2. FORMAT

ABT:[a,]PSUCOM=b-c-d[-e];

3. EXPLANATION OF MESSAGE

a = Action to be aborted. The default is the action currently executing on the PSU circuit. Valid value(s):
   DGN = Diagnose.
   EX  = Exercise.
   RMV = Remove.
   RST = Restore.

b = Switching module (SM) number.

c = PSU number.

d = Service group number.

e = Protocol handler number.

4. SYSTEM RESPONSE

NG = No good. The message form is valid, but the request conflicts with current status.

PF = Printout follows. Followed by the ABT:PSU output message.

5. REFERENCES

Input Message(s):
DGN:PSUCOM
DGN:PSUPH
EX:PSUCOM
EX:PSUPH
OP:DMQ
OP:OOS
RMV:PSUCOM
RMV:PSUPH
RST:PSUCOM
RST:PSUPH
STP:PSUCOM
STP:PSUPH

Output Message(s):
ABT:PSUCOM
ABT:PSUPH

Other Manual(s):
235-600-500 Assert

MCC Display Page(s):
118x PSU SHELF
1186 PSU NETWORK
ABT:PSUCOM-B

Software Release: 5E16(1) and later
Command Group: SM
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

To abort actions on either a packet switch unit (PSU) common controller (COM).

NOTE: Execution of this input message may require further action to put the unit into a sane state. Refer to the References section of this message.

WARNING: This message causes the intended process to be purged. It also causes a SMABTREQ assert and a variable number of audit reports due to the purge. It is recommended that the STP verb be used under normal circumstances; ABT should only be used if the STP message fails.

2. FORMAT

ABT: [a,] PSUCOM=b-c-d[-e];

3. EXPLANATION OF MESSAGE

a = Action to be aborted. The default is the action currently executing on the PSU circuit. Valid value(s):
   DGN = Diagnose.
   EX  = Exercise.
   RMV = Remove.
   RST = Restore.

b = Switching module (SM) number.

c = PSU number.

d = Service group number.

e = Protocol handler number.

4. SYSTEM RESPONSE

NG = No good. The message form is valid, but the request conflicts with current status.

PF = Printout follows. Followed by the ABT:PSU output message.

5. REFERENCES

Input Message(s):
DGN:PSUCOM
DGN:PSUPH
EX:PSUCOM
EX:PSUPH
OP:DMQ
OP:OOS
RMV:PSUCOM
RMV:PSUPH
RST:PSUCOM
RST:PSUPH
STP:PSUCOM
STP:PSUPH

Output Message(s):

ABT:PSUCOM
ABT:PSUPH

Other Manual(s):
235-600-500 Assert

MCC Display Page(s):
118x.y PSU SHELF
1186.y PSU NETWORK (where y=PSU number)
ABT:PSUPH-A

Software Release: 5E14 - 5E15
Command Group: SM
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

To abort actions on either a packet switch unit (PSU) protocol handler (PH).

NOTE: Execution of this input message may require further action to put the unit into a sane state. Refer to the References section of this message.

WARNING: This message causes the intended process to be purged. It also causes a SMABTREQ assert and a variable number of audit reports due to the purge. It is recommended that the STP verb be used under normal circumstances; ABT should only be used if the STP message fails.

2. FORMAT

ABT: [a,]PSUPH=b-c-d[-e];

3. EXPLANATION OF MESSAGE

a = Action to be aborted. The default is the action currently executing on the PSU circuit. Valid value(s):
   DGN = Diagnose.
   EX = Exercise.
   RMV = Remove.
   RST = Restore.

b = Switching module (SM) number.
c = PSU number.
d = Shelf number.
e = Protocol handler number.

4. SYSTEM RESPONSE

NG = No good. The message form is valid, but the request conflicts with current status.
PF = Printout follows. Followed by the ABT:PSU output message.

5. REFERENCES

Input Message(s):
Output Message(s):

ABT:PSUCOM
ABT:PSUPH

Other Manual(s):
235-600-500 Assert

MCC Display Page(s):
118x PSU SHELF
1186 PSU NETWORK
1. PURPOSE

To abort actions on either a packet switch unit (PSU) protocol handler (PH).

NOTE: Execution of this input message may require further action to put the unit into a sane state. Refer to the References section of this message.

WARNING: This message causes the intended process to be purged. It also causes a SMABTREQ assert and a variable number of audit reports due to the purge. It is recommended that the STP verb be used under normal circumstances; ABT should only be used if the STP message fails.

2. FORMAT

ABT: [a,] PSUPH=b-c-d[-e];

3. EXPLANATION OF MESSAGE

a = Action to be aborted. The default is the action currently executing on the PSU circuit. Valid value(s):
   DGN = Diagnose.
   EX = Exercise.
   RMV = Remove.
   RST = Restore.

b = Switching module (SM) number.

c = PSU number.

d = Shelf number.

e = Protocol handler number.

4. SYSTEM RESPONSE

NG = No good. The message form is valid, but the request conflicts with current status.

PF = Printout follows. Followed by the ABT:PSU output message.

5. REFERENCES

Input Message(s):
DGN:PSUCOM
DGN:PSUPH
EX:PSUCOM
EX:PSUPH
OP:DMQ
OP:OOS
RMV:PSUCOM
RMV:PSUPH
RST:PSUCOM
RST:PSUPH
STP:PSUCOM
STP:PSUPH

Output Message(s):

ABT:PSUCOM
ABT:PSUPH

Other Manual(s):
235-600-500  Assert

MCC Display Page(s):
118x,y  PSU SHELF
1186,y  PSU NETWORK (where y=PSU number)
ABT:PSUPIDB

Software Release: 5E14 and later
Command Group: SM
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Requests that a specified action on a packet switch unit (PSU) peripheral interface data bus (PIDB) be aborted.

WARNING: This message causes the intended process to be purged. It also causes a SMABTREQ assert and a variable number of audit reports due to the purge. It is recommended that the STP verb be used under normal circumstances; ABT should only be used if the STP message fails.

2. FORMAT

ABT: [a,] PSUPIDB=b-c-d-e;

3. EXPLANATION OF MESSAGE

- **a**
  = Action to be aborted (the default action is the action currently executing on the PSU PIDB). Valid value(s):
    - RMV = Remove.
    - RST = Restore.

- **b**
  = Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

- **c**
  = PSU number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

- **d**
  = Shelf number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

- **e**
  = PIDB number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

- **NG**
  = No good. The request has been denied. The message is valid but the request conflicts with current status.

- **PF**
  = Printout follows. The ABT:PSUPIDB output message will follow.

- **RL**
  = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES
Input Message(s):
  RMV:PSUPIDB
  RST:PSUPIDB

Output Message(s):
  ABT:PSUPIDB

Input Appendix(es):
  APP:RANGES
ABT:QGP

Software Release: 5E14 and later
Command Group: CM
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Requests that actions on a quad-link packet switch (QLPS) gateway processor (QGP) be aborted (ABT).

WARNING: This message causes the QGP action to be killed. It is recommended that the stop (STP) verb be used under normal circumstances; ABT should only be used if the STP message fails.

2. FORMAT

ABT: [a,]QGP=b-c;

3. EXPLANATION OF MESSAGE

a = Action to be aborted. This input message will abort all requests with the specified action either waiting or executing for the QGP; if no action is given, all requests for the QGP are aborted. Valid value(s):
   DGN = Diagnose. (Not valid for CM3)
   EX = Exercise. (Not valid for CM3)
   RST = Restore.
   (blank) = Any action on the QGP.

b = Message switch (MSGS) side number. Refer to the APP:RANGES appendix in the Appendices section of the Input Messages manual.

c = QGP number. Refer to the APP:RANGES appendix in the Appendices section of the Input Messages manual.

4. SYSTEM RESPONSE

NG = No good. The request has been denied. The message syntax is valid but the request could not be processed. Refer to the APP:CM-IM-REASON appendix in the Appendices section of the Input Messages manual for a list of possible reasons for denying the request.

PF = Printout follows. A QGP abort output message follows.

5. REFERENCES

Input Message(s):

DGN:QGP
EX:QGP
OP:DMQ–CM–SM
RST:QGP
STP:QGP

Output Message(s):

DGN:QGP
EX:QGP
OP:DMQ–CM
RST:QGP

Input Appendix(es):

APP:CM–IM–REASON
APP:RANGES
ABT:QLPS

Software Release: 5E14 and later
Command Group: CM
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Requests that actions on a quad-link packet switch (QLPS) be aborted (ABT).

WARNING: This message causes the QLPS action to be killed. It is recommended that the stop (STP) verb be used under normal circumstances; ABT should only be used if the STP message fails.

2. FORMAT

ABT: [a,] QLPS=b-c;

3. EXPLANATION OF MESSAGE

a = Action to be aborted. This input message will abort all requests with the specified action either waiting or executing for the QLPS; if no action is given, all requests for the QLPS are aborted. Valid value(s):
   DGN = Diagnose.
   EX  = Exercise.
   RST = Restore.
   blank = All the above actions currently waiting or executing on the QLPS.

b = Office network and timing complex (ONTC) side number. Refer to the APP:RANGES appendix in the Appendices section of the Input Messages manual.

c = QLPS network number. Refer to the APP:RANGES appendix in the Appendices section of the Input Messages manual.

4. SYSTEM RESPONSE

NG = No good. The request has been denied. The message syntax is valid but the request could not be processed. Refer to the APP:CM-IM-REASON appendix in the Appendixes section of the Input Messages manual for a list of possible reasons for denying the request.

PF = Printout follows. A QLPS abort output message will follow.

5. REFERENCES

Input Message(s):

DGN:QLPS
EX:QLPS
OP:DMQ-CM-SM
Output Message(s):

DGN: QLPS
EX: QLPS
OP: DMQ-CM
RST: QLPS

Input Appendix(es):

APP: CM-IM-REASON
APP: RANGES
ABT: RAF

Software Release: 5E14 and later
Command Group: SM
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Aborts the specified actions on the recorded announcement function (RAF) unit.

WARNING: This message causes the intended process to be purged. It also causes a SMABTREQ assert and a variable number of audit reports due to the purge. It is recommended that the STP verb be used under normal circumstances; ABT should only be used if the STP message fails.

2. FORMAT

ABT: \{a,\}RAF=b-c;

3. EXPLANATION OF MESSAGE

\(a\) = Action being aborted. The default is the action currently executing on the RAF unit. Valid value(s):

\(DGN=\) Diagnose.
\(EX=\) Exercise.
\(RMV=\) Remove.
\(RST=\) Restore.

\(b\) = Switching module (SM) number.

\(c\) = RAF unit number.

4. SYSTEM RESPONSE

\(NG=\) No good. The request has been denied because it conflicts with current equipment status. May also include:

- \(SM \text{ DOES NOT EXIST} = \) The requested SM does not exist in the system.
- \(SM \text{ UNEQUIPPED} = \) The SM specified in the request is unequipped.
- \(UNIT \text{ DOES NOT EXIST} = \) The requested unit does not exist in the system.

\(PF=\) Printout follows. The request has been accepted. Output message ABT: RAF will follow.

5. REFERENCES

Input Message(s):

DGN: RAF
EX: RAF
RMV: RAF
RST: RAF
STP: RAF

Output Message(s):

ABT: RAF

MCC Display Page(s):

(RAF PAGE)
ABT:RAU

Software Release: 5E14 and later
Command Group: SM
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Requests that maintenance actions on the remote switching module (RSM) alarm (RAU) circuit be aborted.

WARNING: This message causes the intended process to be purged. It also causes a SMABTREQ assert and a variable number of audit reports due to the purge. It is recommended that the STP verb be used under normal circumstances; ABT should only be used if the STP message fails.

2. FORMAT

ABT: [a,]RAU=b;

3. EXPLANATION OF MESSAGE

a

= Action being aborted (default is the action currently executing on the RAU). Valid value(s):
   DGN = Diagnose.
   EX = Exercise.
   RMV = Remove.
   RST = Restore.

b

= Switching module (SM) number.

4. SYSTEM RESPONSE

NG = No good. Request denied because of a conflict with current status.
PF = Printout follows. Followed by the ABT:RAU output message.

5. REFERENCES

Input Message(s):
   DGN:RAU
   EX:RAU
   RMV:RAU
   RST:RAU

Output Message(s):
   ABT:RAU
ABT:RCL

Software Release: 5E14 and later
Command Group: SM
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Requests that maintenance actions on an inter-remote switching module (RSM) remote communication link (RCL) be aborted.

WARNING: This message causes the intended process to be purged. It also causes a SMABTREQ assert and a variable number of audit reports due to the purge. It is recommended that the STP verb be used under normal circumstances; ABT should only be used if the STP message fails.

2. FORMAT

ABT:[a,]RCL=b-c-d-e;

3. EXPLANATION OF MESSAGE

a = Action being aborted (default is the action currently executing on the RCL). Valid value(s):
   RMV = Remove.
   RST = Restore.

b = Switching module (SM) number.

c = Digital line and trunk unit (DLTU) number.

d = Inter-RSM communication link digital facilities interface (CDFI) number.

e = Facility (FAC) number. The FAC number is the T1 facility number on a CDFI.

4. SYSTEM RESPONSE

NG = No good. The message syntax is valid, but the request conflicts with current system or equipment status. May also include:
   NOT STARTED UNIT IN GROWTH STATE
   SM DOES NOT EXIST
   SM UNEQUIPPED
   UNIT DOES NOT EXIST

PF = Printout follows. An ABT:RCL output message follows in response to the request.

RL = Retry later. The request cannot be executed now due to unavailable system resources.
5. REFERENCES

Input Message(s):

RMV: RCL
RST: RCL
STP: RCL

Output Message(s):

ABT: RCL

Other Manual(s):
235-105-220  Corrective Maintenance Manual
235-105-250  System Recovery Manual
ABT:RCLK

Software Release: 5E14 and later
Command Group: SM
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE
Aborts maintenance actions on the remote clock (RCLK) circuit.

WARNING: This message causes the intended process to be purged. It also causes a SMABTREQ assert and a variable number of audit reports due to the purge. It is recommended that the STP verb be used under normal circumstances; ABT should only be used if the STP message fails.

2. FORMAT
ABT:[a,]RCLK=b-c;

3. EXPLANATION OF MESSAGE
a = Action being aborted (default is the action currently executing on the RCLK). Valid value(s):
   DGN = Diagnose.
   EX  = Exercise.
   RMV = Remove.
   RST = Restore.

b = Switching module (SM) number.

c = RCLK side.

4. SYSTEM RESPONSE
NG = No good. May also include:
   NOT STARTED UNIT IN GROWTH STATE
   SM DOES NOT EXIST
   SM UNEQUIPPED
   UNIT DOES NOT EXIST

PF = Printout follows. An ABT:RCLK output message follows in response to the request.

RL = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES
Input Message(s):
   DGN:RCLK
EX: RCLK
RMV: RCLK
RST: RCLK

Output Message(s):

ABT: RCLK

MCC Display Page(s):

(RSM RCU)
ABT:RCOSC

Software Release: 5E14 and later
Command Group: SM
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE
Aborts maintenance actions on the remote clock oscillator (RCOSC).

WARNING: This message causes the intended process to be purged. It also causes a SMABTREQ assert and a variable number of audit reports due to the purge. It is recommended that the STP verb be used under normal circumstances; ABT should only be used if the STP message fails.

2. FORMAT
ABT: [a,]RCOSC=b-c;

3. EXPLANATION OF MESSAGE

a = Action being aborted (default is the action currently executing on the RCOSC). Valid value(s):
   RMV = Remove.
   RST = Restore.
   SW = Switch.

b = Switching module (SM) number.

c = RCOSC side.

4. SYSTEM RESPONSE

NG = No good. May also include:
   NOT STARTED UNIT IN GROWTH STATE
   SM DOES NOT EXIST
   SM UNEQUIPPED
   UNIT DOES NOT EXIST

PF = Printout follows. An ABT:RCOSC output message follows in response to the request.

RL = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES
Input Message(s):
   RMV:RCOSC
   RST:RCOSC
SW:RCOSC

Output Message(s):

ABT:RCOSC

MCC Display Page(s):

(RSM RCU)
ABT:RCOXC

Software Release: 5E14 and later
Command Group: SM
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Aborts maintenance actions on the remote clock oscillator cross couple (RCOXC).

WARNING: This message causes the intended process to be purged. It also causes a SMABTREQ assert and a variable number of audit reports due to the purge. It is recommended that the STP verb be used under normal circumstances; ABT should only be used if the STP message fails.

2. FORMAT

ABT: [a,] RCOXC=b-c;

3. EXPLANATION OF MESSAGE

a = Action being aborted (default is the action currently executing on the RCOXC). Valid value(s):
RMV = Remove.
RST = Restore.

b = Switching module (SM) number.

c = RCOXC side.

4. SYSTEM RESPONSE

NG = No good. May also include:

NOT STARTED UNIT IN GROWTH STATE
SM DOES NOT EXIST
SM UNEQUIPPED
UNIT DOES NOT EXIST

PF = Printout follows. An ABT:RCOXC output message follows in response to the request.

RL = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

Input Message(s):

RMV: RCOXC
RST: RCOXC
Output Message(s):

ABT: RCOXC

MCC Display Page(s):

(RSM RCU)
ABT:RCREF

Software Release: 5E14 and later
Command Group: SM
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Aborts maintenance actions on the remote clock reference (RCREF).

WARNING: This message causes the intended process to be purged. It also causes a SMABTREQ assert and a variable number of audit reports due to the purge. It is recommended that the STP verb be used under normal circumstances; ABT should only be used if the STP message fails.

2. FORMAT

ABT: [a,]RCREF=b-c;

3. EXPLANATION OF MESSAGE

a  = Action being aborted (default is the action currently executing on the RCREF). Valid value(s):
RMV  = Remove.
RST  = Restore.
SW   = Switch.

b  = Switching module (SM) number.

c  = Equipped reference number.

4. SYSTEM RESPONSE

NG  = No good. May also include:
NOT STARTED UNIT IN GROWTH STATE
SM DOES NOT EXIST
SM UNEQUIPPED
UNIT DOES NOT EXIST

PF  = Printout follows. An ABT:RCREF output message follows in response to the request.

RL  = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

Input Message(s):

RMV:RCREF
RST:RCREF
SW: RCREF

Output Message(s):
ABT: RCREF

MCC Display Page(s):
(RSM RCU)
ABT:RCXC

Software Release: 5E14 and later
Command Group: SM
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Aborts maintenance actions on the remote clock cross couple (RCXC).

WARNING: This message causes the intended process to be purged. It also causes a SMABTREQ assert and a variable number of audit reports due to the purge. It is recommended that the STP verb be used under normal circumstances; ABT should only be used if the STP message fails.

2. FORMAT

ABT: [a,] RCXC=b-c;

3. EXPLANATION OF MESSAGE

a = Action being aborted (default is the action currently executing on the RCXC). Valid value(s):
   RMV = Remove.
   RST = Restore.

b = Switching module (SM) number.

c = RCXC side.

4. SYSTEM RESPONSE

NG = No good. May also include:

   NOT STARTED UNIT IN GROWTH STATE
   SM DOES NOT EXIST
   SM UNEQUIPPED
   UNIT DOES NOT EXIST

PF = Printout follows. An ABT:RCXC output message follows in response to the request.

RL = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

Input Message(s):

   RMV: RCXC
   RST: RCXC
Output Message(s):

ABT: RCXC

MCC Display Page(s):

(RSM RCU)
ABT:RDFI

Software Release: 5E14 and later
Command Group: SM
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE
SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Requests that maintenance actions on the remote switching module (RSM) digital facilities interface (RDFI) circuit
be aborted.

**WARNING:** This message causes the intended process to be purged. It also causes a SMABTREQ assert and a
variable number of audit reports due to the purge. It is recommended that the STP verb be used under
normal circumstances; ABT should only be used if the STP message fails.

2. FORMAT

ABT: [a,] RDFI=b-c-d;

3. EXPLANATION OF MESSAGE

a  = Action being aborted (default is the action currently executing on the RDFI). Valid value(s):
DGN   = Diagnose.
EX    = Exercise.
RMV   = Remove.
RST   = Restore.

b  = Switching module (SM) number.

c  = Digital line and trunk unit (DLTU) number.

d  = RDFI number.

4. SYSTEM RESPONSE

NG   = No good. Request denied because of a conflict with current status.
PF   = Printout follows. Followed by the ABT:RDFI output message.

5. REFERENCES

Input Message(s):

DGN: RDFI
EX: RDFI
RMV: RDFI
RST: RDFI
Output Message(s):

ABT: RDF1
ABT:RLI

Software Release: 5E14 and later
Command Group: SM
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Requests that maintenance actions on the remote switching module (RSM) remote link interface (RLI) circuit be aborted.

WARNING: This message causes the intended process to be purged. It also causes a SMABTREQ assert and a variable number of audit reports due to the purge. It is recommended that the STP verb be used under normal circumstances; ABT should only be used if the STP message fails.

2. FORMAT

ABT:\([a,]RLI=b-c;\)

3. EXPLANATION OF MESSAGE

\(a\) = Action being aborted (default is the action currently executing on the RLI). Valid value(s):

- DGN = Diagnose.
- EX = Exercise.
- RMV = Remove.
- RST = Restore.

\(b\) = Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

\(c\) = RLI number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

NG = No good. Request denied because of a conflict with current status.

PF = Printout follows. Followed by the ABT:RLI output message.

5. REFERENCES

Input Message(s):

- DGN:RLI
- EX:RLI
- RMV:RLI
- RST:RLI
Output Message(s):

ABT : RLI

Input Appendix(es):

APP : RANGES
1. PURPOSE

Requests that the actions on a remote terminal (RT) for the specified unit circuit be aborted. This message is applicable for TR303 RTs terminating on an integrated digital carrier unit (IDCU) or a digital networking unit -synchronous optical network (DNU-S).

2. FORMAT

ABT:RMV RT,a;

3. EXPLANATION OF MESSAGE

a = Unit. Valid value(s):

EOC=b–c
TMC=b–d

b = Site identification number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

c = EOC number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

d = TMC number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

NG = No good. The request has been denied because of a conflict with current status.

PF = Printout follows. Followed by the corresponding output message.

RL = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

Input Message(s):

RMV:RT–EOC
RMV:RT–TMC
RST:RT–EOC
RST:RT–TMC

Output Message(s):

STP:RT–EOC
ABT:RRCLK

Software Release: 5E14 and later
Command Group: SM
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Aborts maintenance actions on a remote integrated services line unit (RISLU) remote clock circuit pack (RRCLK).

WARNING: This message causes the intended process to be purged. It also causes a SMABTREQ assert and a variable number of audit reports due to the purge. It is recommended that the STP verb be used under normal circumstances; ABT should only be used if the STP message fails.

2. FORMAT

ABT: [a,]RRCLK=b-c-d;

3. EXPLANATION OF MESSAGE

a
  = Action to be aborted. Valid value(s):
  DGN = Diagnose.
  EX  = Exercise.
  RMV = Remove.
  RST = Restore.
  SW  = Switch.

NOTE: The default is the action currently executing on the RRCLK.

b
  = Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

c
  = RISLU number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

d
  = RRCLK number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

NG
  = No good. May also include:
    - CONFLICT WITH UNIT STATE
    - SM DOES NOT EXIST
    - SM UNEQUIPPED
    - UNIT DOES NOT EXIST

PF
  = Printout follows. An ABT:RRCLK output message follows in response to the request.
= Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

Input Message(s):

DGN: RRCLK
EX: RRCLK
RMV: RRCLK
RST: RRCLK
SW: RRCLK

Output Message(s):

ABT: RRCLK

Input Appendix(es):

APP: RANGES

Other Manual(s):
235-105-220  Corrective Maintenance
ABT:RVPT

Software Release: 5E14 and later  
Command Group: SM  
Application: 5  
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Requests that actions currently running on the revertive pulsing transceiver (RVPT) be aborted. This input message should be used only if the STP:RVPT input message has been attempted first and has failed to terminate the previous action. Because both hardware and data may be left in an invalid state as a consequence of one ABT:RVPT message, a number of other outputs, such as audits and asserts, may follow.

WARNING: This message causes the intended process to be purged. It also causes a SMABTREQ assert and a variable number of audit reports due to the purge. It is recommended that the STP verb be used under normal circumstances; ABT should only be used if the STP message fails.

2. FORMAT

ABT: [e,]RVPT=a-b-c-d;

3. EXPLANATION OF MESSAGE

a  = Switching module number.
b  = Unit number.
c  = Service group.
d  = Circuit number.
e  = Action being aborted. Valid value(s):
   DGN  = Diagnose.
   EX  = Exercise.
   RMV  = Remove.
   RST  = Restore.

4. SYSTEM RESPONSE

NG  = No good. The request has been denied. The message form is valid, but the request conflicts with current status.
PF  = Printout follows. Followed by ABT:RVPT output message.
RL  = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES
Input Message(s):

DGN: RVPT
EX: RVPT
RMV: RVPT
RST: RVPT
STP: RVPT

Output Message(s):

ABT: RVPT
ABT:SAS

Software Release: 5E14 and later
Command Group: SM
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE
Aborts the specified actions on the service announcement system (SAS) unit.

WARNING: This message causes the intended process to be purged. It also causes a SMABTREQ assert and a variable number of audit reports due to the purge. It is recommended that the STP verb be used under normal circumstances; ABT should only be used if the STP message fails.

2. FORMAT
ABT:[a,]SAS=b-c;

3. EXPLANATION OF MESSAGE
a = Action being aborted (default is the action currently executing on the SAS unit). Valid value(s):
DGN = Diagnose.
EX = Exercise.
RMV = Remove.
RST = Restore.

b = Switching module (SM) number.

c = SAS unit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE
NG = No good. The request has been denied because it conflicts with current equipment status. May also include:
- SM DOES NOT EXIST = The requested SM does not exist in the system.
- SM UNEQUIPPED = The SM specified in the request is unequipped.
- UNIT DOES NOT EXIST = The requested unit does not exist in the system.

PF = Printout follows. The request has been accepted. Output message ABT:SAS follows.

RL = Retry later. The request cannot be executed now due to unavailable system resources. The message may be entered again later.

5. REFERENCES
Input Message(s):
DGN: SAS
EX: SAS
RMV: SAS
RST: SAS
STP: SAS

Output Message(s):

ABT: SAS

Input Appendix(es):

APP: RANGES
ABT:SCAN

Software Release: 5E14 and later
Command Group: SM
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE
Requests that actions on the scan point board at the specified location be aborted.

WARNING: This message causes the intended process to be purged. It also causes a SMABTREQ assert and a variable number of audit reports due to the purge. It is recommended that the STP verb be used under normal circumstances; ABT should only be used if the STP message fails.

2. FORMAT

ABT: [a,]SCAN=b-c-d-e;

3. EXPLANATION OF MESSAGE

a = Action being aborted. The default is the action currently executing on the scan point board. Valid values are:
DGN = Diagnose.
EX = Exercise.
RMV = Remove.
RST = Restore.

b = Switching module number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

c = Metallic service unit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

d = Service group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

e = Scan point board number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

NG = No good. The request has been denied because of a conflict with current status.

PF = Printout follows. Followed by the ABT:SCAN output message.

5. REFERENCES

Input Message(s):
DGN: SCAN
EX: SCAN
RMV: SCAN
RST: SCAN
STP: SCAN

Output Message(s):

ABT: SCAN

Input Appendix(es):

APP: RANGES
ABT:SDFI

Software Release: 5E14 and later
Command Group: SM
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Requests that actions on a SLC®96 digital facility interface (SDFI).

WARNING: This message causes the intended process to be purged. It also causes a SMABTREQ assert and a variable number of audit reports due to the purge. It is recommended that the STP verb be used under normal circumstances; ABT should only be used if the STP message fails.

2. FORMAT

ABT: [a,b]SDFI=b-c-d;

3. EXPLANATION OF MESSAGE

a = Action to be aborted (default is the action currently executing on the SDFI). Valid value(s):
   DGN = Diagnose.
   EX  = Exercise.
   RMV = Remove.
   RST  = Restore.

b = Switching module (SM) number.

c = DCLU number.

d = SDFI number.

4. SYSTEM RESPONSE

NG = No good. The request has been denied. The message form is valid, but the request conflicts with current status.

PF = Printout follows. The request was accepted. Output message follows.

5. REFERENCES

Input Message(s):

DGN:SDFI
EX:SDFI
RMV:SDFI
RST:SDFI
Output Message(s):

ABT: SDFI
ABT:SFI

**Software Release:** 5E14 and later
**Command Group:** SM
**Application:** 5
**Type:** Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Requests that maintenance actions be aborted on a digital networking unit - synchronous optical network (DNU-S) synchronous transport signal electrical interface (STSX-1) facility interface (SFI).

**NOTE:** Execution of this message may require further action to put the unit into a sane state. Refer to the REFERENCES section of this message.

**WARNING:** This message causes the intended process to be purged. It also causes a SMABTREQ assert and a variable number of other asserts and audit reports due to the purge. It is recommended that the STP verb be used under normal circumstances; ABT should only be used if the STP message fails.

2. FORMAT

ABT:\[a,]SFI=b-c-d-e;

3. EXPLANATION OF MESSAGE

**a**

= Action to be aborted (default is the action currently executing on the SFI). Valid value(s):

- **DGN** = Diagnose.
- **RMV** = Remove.
- **RST** = Restore.

**b**

= Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

**c**

= DNU-S number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

**d**

= Data group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

**e**

= STSX-1 facility interface number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

**NG**

= No good. The message form is valid, but the request conflicts with the current status.

**PF**

= Printout follows. An ABT:SFI output message will follow.

**RL**

= Retry later. The request cannot be executed now due to unavailable system resources.
5. REFERENCES

Input Message(s):
  DGN:SFI
  RMV:SFI
  RST:SFI

Output Message(s):
  ABT:SFI

Input Appendix(es):
  APP: RANGES

MCC Display Page(s):
  1510 (DNUS STATUS)
ABT: SLIM

Software Release: 5E14 and later
Command Group: SM
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE
SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Requests that actions on the subscriber line instrument measurement (SLIM) board be aborted.

WARNING: This message causes the intended process to be purged. It also causes a variable number of audit reports due to the purge. It is recommended that the STP (STOP) verb be used under normal circumstances. The ABT input message should only be used if the STP message fails.

2. FORMAT

ABT:[a,]SLIM=b-c-d-e;

3. EXPLANATION OF MESSAGE

a = Action being aborted. The default is the action currently executing on the SLIM board. Valid values are:
  DGN = Diagnose.
  EX  = Exercise.
  RMV = Remove.
  RST = Restore.

b = Switching module number. Refer to the APP: RANGES appendix in the Appendixes section of the Input Messages manual.

c = Metallic service unit number. Refer to the APP: RANGES appendix in the Appendixes section of the Input Messages manual.

d = Service group number. Refer to the APP: RANGES appendix in the Appendixes section of the Input Messages manual.

e = SLIM board number. Refer to the APP: RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

NG = No good. The request has been denied because of a conflict with current status.

PF = Printout follows. Followed by the ABT: SLIM output message.

5. REFERENCES

Input Message(s):
Output Message(s):

ABT: SLIM

Input Appendix(es):

APP: RANGES
ABT:STS1

Software Release: 5E16(1) and later
Command Group: SM
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Requests that the currently executing maintenance action on a synchronous transport signal - level 1 (STS1) be aborted.

WARNING: The ABT command causes the intended process to be purged. It can also cause a variable number of other purges, asserts and audit reports. Under normal circumstances, use the STP verb; use ABT only if the STP command fails. Service-affecting aborts tear down any calls on the specified STS1.

2. FORMAT

ABT: [a,]STS1=b-c-d-e-f;

3. EXPLANATION OF MESSAGE

a = Action being aborted (default is the currently executing action). Valid value(s):
   RMV = Remove.
   RST = Restore.

b = Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

c = Optical interface unit (OIU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

d = Protection group (PG) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

e = Optical carrier - level 3 (OC3) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

f = STS1 number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

NG = No good. The message form is valid, but the request conflicts with current status.

PF = Printout follows. Followed by the ABT:STS1 output message.

RL = Retry later. The request cannot be executed now due to unavailable system resources.
5. REFERENCES

Input Message(s):
RMV:STS1  
RST:STS1  
STP:STS1  

Output Message(s):
ABT:STS1  

Input Appendix(es):
APP:RANGES  

Other Manual(s):
235-105-110 System Maintenance Requirements and Tools  
235-105-220 Corrective Maintenance  

MCC Display Page(s):
1492 OIU STS1 STATUS
1. PURPOSE

Requests that the currently executing maintenance action on a synchronous transport signal - level 3 concatenated (STS3C) facility be aborted.

WARNING: The ABT command causes the intended process to be purged. It can also cause a variable number of other purges, asserts and audit reports. Under normal circumstances, use the STP verb; use ABT only if the STP command fails. Service-affecting aborts tear down any calls on the specified protection group (PG).

2. FORMAT

ABT:[a,]STS3C=b-c-d-e-f;

3. EXPLANATION OF MESSAGE

a = Action being aborted (default is the currently executing action). Valid value(s):
RMV = Remove.
RST = Restore.

b = Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

c = Optical interface unit (OIU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

d = PG number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

e = Optical carrier - level 3 concatenated (OC3C) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

f = STS3C number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

NG = No good. The message form is valid, but the request conflicts with current status.

PF = Printout follows. Followed by the ABT:STS3C output message.

RL = Retry later. The request cannot be executed now due to unavailable system resources.
5. REFERENCES

Input Message(s):

RMV:STS3C  
RST:STS3C  
STP:STS3C

Output Message(s):

ABT:STS3C

Input Appendix(es):

APP:RANGES

Other Manual(s):

235-105-110  System Maintenance Requirements and Tools  
235-105-220  Corrective Maintenance

MCC Display Page(s):

1491  OIU OC3C STATUS


ABT:TAC

Software Release: 5E14 and later
Command Group: SM
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Requests that actions on the test and access circuit (TAC) be aborted at the specified location.

WARNING: This message causes the intended process to be purged. It also causes a SMABTREQ assert and a variable number of audit reports due to the purge. It is recommended that the STP verb be used under normal circumstances; ABT should only be used if the STP message fails.

2. FORMAT

ABT: [a,]TAC=b-c-d;

3. EXPLANATION OF MESSAGE

a = Action being aborted. The default is the action currently executing on the TAC. Valid value(s):
   DGN = Diagnose.
   EX  = Exercise.
   RMV = Remove.
   RST = Restore.

b = Switching module number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

c = Trunk unit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

d = Service group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

NG = No good. The request has been denied because of a conflict with current status.

PF = Printout follows. Followed by the ABT:TAC output message.

5. REFERENCES

Input Message(s):

   DGN:TAC
   EX:TAC
   RMV:TAC
RST: TAC
STP: TAC

Output Message(s):
ABT: TAC

Input Appendix(es):
APP: RANGES
**ABT:TASK-TLWS**

**Software Release:** 5E14 and later  
**Command Group:** TRKLN  
**Application:** 5  
**Type:** Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. **PURPOSE**

Requests that an active trunk and line work station (TLWS) maintenance task be aborted.

**WARNING:** Once this message is entered, the consistency of all hardware states and data in use by the task is questionable.

2. **FORMAT**

ABT:TASK:TLWS=a;

3. **EXPLANATION OF MESSAGE**

   a = Task identifier number given active TLWS maintenance tasks by the OP:JOBSTATUS input message.

4. **SYSTEM RESPONSE**

   **PF** = Printout follows. The request has been accepted and the system will attempt to abort the specified task. Followed by an ABT:TASK-TLWS output message.

   **RL** = Retry later. The request cannot be executed now.

5. **REFERENCES**

   **Input Message(s):**

   OP:JOBSTATUS

   **Output Message(s):**

   ABT:TASK-TLWS
ABT:TASK

Software Release: 5E14 and later
Command Group: TRKLN
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Requests that an active trunk and line work station (TLWS) maintenance task or an Autoplex™ automatic task administrator (AATA) maintenance task be aborted.

WARNING: Once this message is entered, the consistency of all hardware states and data in use by the TLWS task is questionable.

2. FORMAT

ABT:TASK:JOB=a,PID=b,UNIQ=c;

3. EXPLANATION OF MESSAGE

\( a \) = Job type. Valid value(s):
- AATA = AATA maintenance task.
- TLWS = TLWS maintenance task.

\( b \) = Task process number given an active maintenance tasks by the OP:JOBSTATUS input message.

\( c \) = Unique number given an maintenance task by the OP:JOBSTATUS input message.

4. SYSTEM RESPONSE

PF = Printout follows. The request has been accepted and the system attempts to abort the specified task. The ABT:TASK output message follows.

RL = Retry later. The request cannot be executed now.

5. REFERENCES

Input Message(s):
- OP:JOBSTATUS

Output Message(s):
- ABT:TASK
ABT:TEN

Software Release: 5E14 and later
Command Group: SM
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Requests that actions on the trunk equipment number (TEN) be aborted at the specified location.

WARNING: This message causes the intended process to be purged. It also causes a SMABTREQ assert and a variable number of audit reports due to the purge. It is recommended that the STP verb be used under normal circumstances; ABT should only be used if the STP message fails.

2. FORMAT

ABT:\[a,\]TEN=b-c-d-e-f;

3. EXPLANATION OF MESSAGE

a = Action being aborted (the default is the action currently executing on the TEN). Valid value(s):
   DGN = Diagnose.
   EX  = Exercise.
   RMV = Remove.
   RST = Restore.

b = Switching module number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

c = TEN unit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

d = Service group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

e = TEN board number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

f = TEN circuit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

NG = No good. The request has been denied because of a conflict with current status.

PF = Printout follows. Followed by the ABT:TEN output message.

5. REFERENCES
Input Message(s):

DGN : TEN
EX : TEN
RMV : TEN
RST : TEN
STP : TEN

Output Message(s):

ABT : TEN

Input Appendix(es):

APP : RANGES
ABT:TMS

Software Release: 5E14 and later
Command Group: CM
Application: 5
Type: Input

1. PURPOSE

Aborts a diagnostic or exercise on the time multiplexed switch (TMS) on the specified office network and timing complex (ONTC).

Abort is differentiated from stop by the action of the request. An abort action is immediate, without regard for the state of the hardware. 'Stop' will wait for a 'clean' point of termination, (such as, the end of a phase) and will attempt to leave the hardware in a sane state.

NOTE: Abort should only be used if an 'STP' input message fails.

2. FORMAT

ABT: [a,] TMS=b;

3. EXPLANATION OF MESSAGE

a = Action being aborted (default is any action currently waiting or executing on the TMS). Valid value(s):
   DGN = Diagnose.
   EX  = Exercise.

b = Side of ONTC.

4. SYSTEM RESPONSE

IP = In progress. The abort has been initiated. A completion message will be printed for the original request when the abort has completed.

NG = No good. The request has been denied. The message syntax is valid, but the request could not be processed. Refer to the APP:CM-IM-REASON appendix in the Appendixes section of the Input Messages manual for a list of possible reasons for denying the request.

5. REFERENCES

Input Message(s):
   DGN:TMS
   EX:TMS
   OP:DMQ

Output Message(s):
   DGN:TMS
   EX:TMS
OP: DMQ-CM

Input Appendix(es):

APP: CM-IM-REASON
ABT:TMSFP

Software Release: 5E16(2) and later
Command Group: CM
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Aborts a diagnostic, remove, or restore, on the time multiplexed switch (TMS) fabric pair (TMSFP) for the specified office network and timing complex (ONTC). This command also has the option of aborting any running or pending child requests of the parent TMSFP.

ABT is differentiated from STP by the action of the request. An abort action is immediate, without regard for the state of the hardware, while STP will wait for a graceful point of termination, (for example, the end of a phase) and will attempt to leave the hardware in a valid state.

WARNING: This message causes the TMSFP action to be killed. It is recommended that the stop (STP) verb be used under normal circumstances. ABT should only be used if the STP message fails.

2. FORMAT

ABT: [a,]TMSFP=b-c[,ALL];

3. EXPLANATION OF MESSAGE

ALL = Abort the TSMFP request and/or any child (for example, QLPS, NLI, DLI) requests that may exist on the deferred maintenance queues (DMQ).

a = Action to be aborted. The default is any action currently waiting or executing on the TMSFP. Valid value(s):
   DGN = Diagnose.
   RMV = Remove.
   RST = Restore.

b = ONTC side that the TMSFP is on.

c = TMS fabric pair number.

4. SYSTEM RESPONSE

IP = In progress. The abort has been initiated. A completion message will be printed for the original request when the abort has completed.

NG = No good. The request has been denied. The message syntax is valid, but the request could not be processed. Refer to the APP:CM-IM-REASON appendix in the Appendixes section of the Input Messages manual for a list of possible reasons for denying the request.

RL = Retry later. The request cannot be executed now due to unavailable system resources.
5. REFERENCES

Input Message(s):

DGN: TMSFP
OP: DMQ-CM-SM
RMV: TMSFP
RST: TMSFP
STP: TMSFP

Output Message(s):

DGN: TMSFP
OP: DMQ-CM
RMV: TMSFP
RST: TMSFP

Input Appendix(es):

APP: CM-IM-REASON
ABT:TMUX

Software Release: 5E14 and later
Command Group: SM
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Requests that maintenance actions be aborted on a digital networking unit - synchronous optical network (DNU-S) transmission multiplexer (TMUX).

NOTE: Execution of this message may require further action to put the unit into a sane state. Refer to the References section of this message.

WARNING: This message causes the intended process to be purged. It also causes a SMABTREQ assert and a variable number of other asserts and audit reports due to the purge. It is recommended that the STP verb be used under normal circumstances; ABT should only be used if the STP message fails.

2. FORMAT

ABT: [a,] TMUX=b-c-d-e;

3. EXPLANATION OF MESSAGE

a = Action to be aborted (default is the action currently executing on the TMUX). Valid value(s):
   DGN = Diagnose.
   RMV = Remove.
   RST = Restore.

b = Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

c = DNU-S number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

d = Data group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

e = TMUX number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

NG = No good. The message form is valid, but the request conflicts with the current status.

PF = Printout follows. An ABT:TMUX output message will follow.

RL = Retry later. The request cannot be executed now due to unavailable system resources.
5. REFERENCES

Input Message(s):

- DGN : TMUX
- RMV : TMUX
- RST : TMUX

Output Message(s):

- ABT : TMUX

Input Appendix(es):

- APP : RANGES

MCC Display Page(s):

- 1510 (DNUS STATUS)
ABT:TRIB

Software Release: 5E15 and later
Command Group: SM
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Requests that maintenance actions be aborted on a PCT (Peripheral Control and Timing) link tributary.

Note: Execution of this message may require further action to put the unit into a sane state. Refer to the REFERENCES section of this message.

WARNING: This command causes the intended process to be purged. It can also cause a variable number of other purges, asserts, and audit reports. Under normal circumstances, use the STP command. Use ABT only if the STP command fails. Service-affecting aborts tear down any calls on the specified PCT (Peripheral Control and Timing) line and trunk unit link circuit.

2. FORMAT

ABT:[a,]TRIB=b-c-d-e;

3. EXPLANATION OF MESSAGE

a = Action to be aborted (default is the action currently executing on the tributary). Valid value(s):
   RMV = Remove.
   RST = Restore.

b = Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

c = PLTU (PCT Line and Trunk Unit) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

d = PCT Facility Interface number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

e = PCT Facility Interface Tributary number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

NG = No good. The message form is valid, but the request conflicts with the current status.
PF = Printout follows. An ABT:TRIB output message will follow.
RL = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

Input Message(s):

RMV: TRIB
RST: TRIB

Output Message(s):

ABT: TRIB

Input Appendix(es):

APP: RANGES
ABT:TSESS

Software Release: 5E14 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Request to abort the subscriber line and instrument measurement (SLIM) routine mode test session.

2. FORMAT

ABT:TSESS,SESS=a;

3. EXPLANATION OF MESSAGE

a = Identity of the test session to be aborted (1-40).

4. SYSTEM RESPONSE

IP = Printout follows.
NG = No good. May also include:
  - TEST SESSION a NOT ACTIVE
  - TEST SESSION a NOT DEFINED

5. REFERENCES

MCC Display Page(s):

162 (TESTSESSION STATUS)
ABT:TST-LEN

Software Release: 5E14 and later
Command Group: SM
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Requests that actions on the line unit path exerciser (LUPEX) be aborted at the specified location.

WARNING: This message causes the intended process to be purged. It also causes an assert and a variable number of audit reports due to the purge. It is recommended that the STP verb be used under normal circumstances; ABT should only be used if the STP message fails.

2. FORMAT

ABT:TST,LEN=a-b-c-d-e-f;

3. EXPLANATION OF MESSAGE

a  = Switching module number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

b  = Line unit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

c  = Grid number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

d  = Grid board number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

e  = Grid board switch number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

f  = Grid board switch level number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

NG  = No good. The request has been denied because of a conflict with current status.

PF  = Printout follows. Followed by the ABT:TST-LEN output message.

RL  = Retry later. The request has been denied due to unavailable system resources.

5. REFERENCES

Input Message(s):
STP: TST-LEN
TST: LEN

Output Message(s):
ABT: TST-LEN
STP: TST-LEN
TST: LEN

Input Appendix(es):
APP: RANGES

Other Manual(s):
235-105-220  Corrective Maintenance
ABT:TTFCOM

Software Release: 5E14 and later
Command Group: SM
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Requests that actions on the test transmission facility common (TTFCOM) circuit be aborted at the specified location.

WARNING: This message causes the intended process to be purged. It also causes a SMABTREQ assert and a variable number of audit reports due to the purge. It is recommended that the STP verb be used under normal circumstances; ABT should only be used if the STP message fails.

2. FORMAT

ABT: [a, ]TTFCOM=b-c-d-e;

3. EXPLANATION OF MESSAGE

a = Action being aborted (default is the action currently executing on the TTFCOM circuit). Valid value(s):
   DGN = Diagnose.
   EX  = Exercise.
   RMV = Remove.
   RST = Restore.

b = Switching module number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

c = Global digital service unit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

d = Service group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

e = Board number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

NG = No good. The request has been denied because of a conflict with current status.

PF = Printout follows. Followed by the ABT:TTFCOM output message.

5. REFERENCES
Input Message(s):

DGN: TTFCOM
EX: TTFCOM
RMV: TTFCOM
RST: TTFCOM
STP: TTFCOM

Output Message(s):

ABT: TTFCOM

Input Appendix(es):

APP: RANGES
ABT:TUCHBD

Software Release: 5E14 and later
Command Group: SM
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPTION OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Requests that actions on the trunk unit channel board (TUCHBD) be aborted at the specified location.

WARNING: This message causes the intended process to be purged. It also causes a SMABTREQ assert and a variable number of audit reports due to the purge. It is recommended that the STP verb be used under normal circumstances; ABT should only be used if the STP message fails.

2. FORMAT

ABT:[a,TUCHBD=b-c-d-e;]

3. EXPLANATION OF MESSAGE

a = Action being aborted (default is the action currently executing on the TUCHBD). Valid value(s):
   DGN = Diagnose.
   RMV = Remove.
   RST = Restore.

b = Switching module number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

c = Trunk unit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

d = Service group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

e = Channel board number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

NG = No good. The request has been denied because of a conflict with current status.

PF = Printout follows. Followed by the ABT:TUCHBD output message.

5. REFERENCES

Input Message(s):

DGN:TUCHBD
RMV: TUCHBD
RST: TUCHBD
STP: TUCHBD

Output Message(s):

ABT: TUCHBD

Input Appendix(es):

APP: RANGES
ABT:UCONF

Software Release: 5E14 and later
Command Group: SM
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Requests that actions on the universal conference (UCONF) circuit board be aborted at the specified location.

WARNING: This message causes the intended process to be purged. It also causes a SMABTREQ assert and a variable number of audit reports due to the purge. It is recommended that the STP verb be used under normal circumstances; ABT should only be used if the STP message fails.

2. FORMAT

ABT:\[a,\]UCONF=b-c-d-e;

3. EXPLANATION OF MESSAGE

\( a \) = Action being aborted (default is the action currently executing on the UCONF circuit board). Valid value(s):

- **DGN** = Diagnose.
- **EX** = Exercise.
- **RMV** = Remove.
- **RST** = Restore.

\( b \) = Switching module number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

\( c \) = Global digital service unit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

\( d \) = Service group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

\( e \) = Digital service circuit unit board number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

- **NG** = No good. The request has been denied because of a conflict with current status.
- **PF** = Printout follows. Followed by the ABT:UCONF output message.

5. REFERENCES

Input Message(s):
DGN: UCONF
EX: UCONF
RMV: UCONF
RST: UCONF
STP: UCONF

Output Message(s):

ABT: UCONF

Input Appendix(es):

APP: RANGES
ABT:UTD

Software Release: 5E14 and later
Command Group: SM
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Requests that actions on the universal tone decoder (UTD) be aborted at the specified location.

WARNING: This message causes the intended process to be purged. It also causes a SMABTREQ assert and a variable number of audit reports due to the purge. It is recommended that the STP verb be used under normal circumstances; ABT should only be used if the STP message fails.

2. FORMAT

ABT: [a,]UTD=b-c-d-e;

3. EXPLANATION OF MESSAGE

a = Action being aborted (default is the action currently executing on the UTD). Valid value(s):
   DGN = Diagnose.
   EX = Exercise.
   RMV = Remove.
   RST = Restore.

b = Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

c = Local digital service unit (DSU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

d = Service group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

e = DSU board position number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

NG = No good. The request has been denied because of a conflict with current status.

PF = Printout follows. Followed by the ABT:UTD output message.

5. REFERENCES

Input Message(s):
ABT:UTG
Software Release: 5E14 and later
Command Group: SM
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE
Requests that actions be aborted on the universal tone generator (UTG) at the specified location.

WARNING: This message causes the intended process to be purged. It also causes a SMABTREQ assert and a variable number of audit reports due to the purge. It is recommended that the STP verb be used under normal circumstances; ABT should only be used if the STP message fails.

2. FORMAT
ABT: [a,]UTG=b-c-d-e;

3. EXPLANATION OF MESSAGE

- **a** = Action being aborted (default is the action currently executing on the UTG). Valid value(s):
  - DGN = Diagnose.
  - EX = Exercise.
  - RMV = Remove.
  - RST = Restore.

- **b** = Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

- **c** = Local digital service unit (DSU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

- **d** = Service group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

- **e** = DSU board position number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

- **NG** = No good. The request has been denied because of a conflict with current status.

- **PF** = Printout follows. Followed by the ABT:UTG output message.

5. REFERENCES
Input Message(s):
DGN: UTG
EX: UTG
RMV: UTG
RST: UTG
STP: UTG

Output Message(s):
ABT: UTG

Input Appendix(es):
APP: RANGES
ABT:VT15

Software Release: 5E16(1) and later
Command Group: SM
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE
SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Requests that the currently executing maintenance action on a virtual tributary - level 1.5 (VT15) be aborted.

WARNING: The ABT command causes the intended process to be purged. It can also cause a variable number of
other purges, asserts and audit reports. Under normal circumstances, use the STP verb; use ABT only if
the STP command fails. Service-affecting aborts tear down any calls on the specified VT15 facility.

2. FORMAT

ABT:[a,b-c-d-e-f-g-h];

3. EXPLANATION OF MESSAGE

a = Action being aborted (default is the currently executing action). Valid value(s):
   RMV = Remove.
   RST = Restore.

b = Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section
   of the Input Messages manual.

c = Optical interface unit (OIU) number. Refer to the APP:RANGES appendix in the Appendixes
   section of the Input Messages manual.

d = Protection group (PG) number. Refer to the APP:RANGES appendix in the Appendixes section
   of the Input Messages manual.

e = Optical carrier - level 3 (OC3) number. Refer to the APP:RANGES appendix in the Appendixes
   section of the Input Messages manual.

f = Synchronous transport signal - level 1 (STS1) number. Refer to the APP:RANGES appendix in
   the Appendixes section of the Input Messages manual.

g = VT15 group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input
   Messages manual.

h = VT15 member number. Refer to the APP:RANGES appendix in the Appendixes section of the
   Input Messages manual.

4. SYSTEM RESPONSE

NG = No good. The message form is valid, but the request conflicts with current status.
PF = Printout follows. Followed by the ABT:VT15 output message.

RL = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

Input Message(s):

RMV:VT15
RST:VT15
STP:VT15

Output Message(s):

ABT:VT15

Input Appendix(es):

APP: RANGES

Other Manual(s):
235-105-110 System Maintenance Requirements and Tools
235-105-220 Corrective Maintenance

MCC Display Page(s):
1492 OIU STS1 STATUS
7. ACTV
ACTV:OMDB

Software Release: 5E14 and later
Command Group: SFTMGT
Application: 5,3B
Type: Input

1. PURPOSE
Requests that the active (incore) output message database (OMDB) be refreshed from the OMDB disk file.

2. FORMAT
ACTV:OMDB;

3. EXPLANATION OF MESSAGE
No variables.

4. SYSTEM RESPONSE
   IP = In progress. Followed by the ACTV:OMDB output message.

5. REFERENCES
Input Message(s):
   OP:OMDB
   UPD:OMDB

Output Message(s):
   ACTV:OMDB

Other Manual(s):
235-105-250A  Craft Terminal Lockout Job Aid
8. ADD
ADD:PAUTH

Software Release: 5E14 and later
Command Group: AUTH
Application: 5,3B
Type: Input

1. PURPOSE

Adds a new person identity (IDENT) with its related password (PSSWD) to the person authority (PAUTH) database.

This input message is not printed (echoed) on the read-only printer (ROP) in order to keep passwords private.

This input message is used in administering security of the maintenance interface. Refer to the Authority Management section of the Routine Operations and Maintenance manual for authority administration information.

2. FORMAT

ADD:PAUTH,IDENT="a",PSSWD="b";

3. EXPLANATION OF MESSAGE

a = Identity of the person that uses the password, in one to eight letters and/or digits. To avoid collisions with terminal identities, person identities may not begin with "tty" and equal four characters in length.

b = Password in six to thirteen characters.

4. SYSTEM RESPONSE

NG = No good. Valid value(s):
- PASSWORD ILLEGAL LENGTH = The given password is less than six characters or greater than 13 characters in length.
- PERSON IDENTITY NOT UNIQUE = The given person identity already exists in the person authority database or the person identity is four characters in length and begins with "tty".
- UNABLE TO ACCESS AUTHORITY ADMINISTRATION = The person authority database is inaccessible.

OK = Good. The identity and password are added to the person authority database.

RL = Retry later. Valid value(s):
- AUTHORITY ADMINISTRATION UNDER UPDATE = The person authority database is currently being updated.

5. REFERENCES

Input Message(s):

CHG:PAUTH
CHG:PSSWD
DEL: PAUTH
VFY: PAUTH

Output Message(s):

VFY: PAUTH

Other Manual(s):

235-105-210  Routine Operations and Maintenance
ADD:PCGRP

Software Release: 5E14 and later
Command Group: AUTH
Application: 5,3B
Type: Input

1. PURPOSE

This input message adds a command group or profile to the person-command group (PCGRP) relation for the given person identity (IDENT).

Format 1 associates a command group (COMGR) with a person identity (IDENT), allowing a user to access the messages in the command group. Format 2 associates a profile (PROFL) with an IDENT, allowing a user to access all the messages associated with a set of command groups. These input messages are used in administering security of the maintenance interface. Refer to the Routine Operations and Maintenance manual for authority administration information.

2. FORMAT

[1] ADD:PCGRP:IDENT=a,COMGR=b;
[2] ADD:PCGRP:IDENT=a,PROFL=c;

3. EXPLANATION OF MESSAGE

a = Identity of the person in one to eight letters and/or digits.

b = Command group. Valid value(s):
ADMIN = System administrator only activities.
ALARM = Alarm manipulation.
AM = Administrative module maintenance.
AMA = Automatic message accounting.
AUDIT = Audits.
AUTH = Command and authority administration.
CCS = Common channel signaling.
CM = Communications module maintenance.
FHADM = File handling and administration.
MAINT = Routine maintenance activities.
MEAS = Measurements.
NMOC = Network management and overload control.
ODD = Office dependent data activities.
PASS = Personal password modification.
RCV = Recent change and verify activities.
SM = Switching module maintenance.
SPECRCV = Special RC/V input messages.
SFTMG'T = Software management (update, software release retrofit).
SFTUTIL = Software utilities.
SUPERUSR = Super user authority (bypass terminal authority).
SYSRCVY = System recovery activities.
TRACE = Call trace.
TRKLN = Trunk and line maintenance.
Refer to the APP:COMMAND-GRP appendix in the Appendixes section of the Input Messages manual for more details.

c = A profile name which has been previously created using ADD:PROFL. The name is one to eight letters and/or digits.

4. SYSTEM RESPONSE

NG = No good. May also include:
- COMMAND GROUP ALREADY ASSIGNED TO THIS PERSON = The given command group has already been assigned to this person identity.
- NON-EXISTENT PERSON IDENTITY = The given person identity does not exist in the person authority database.
- PROFILE ALREADY ASSIGNED = The given command profile (PROFL) has already been assigned to this person identity.
- PROFILE IDENTITY DOES NOT EXIST = The given profile does not exist in the profile authority database.
- UNABLE TO ACCESS AUTHORITY ADMINISTRATION = The person authority database is inaccessible.

OK = Good. The command group or profile is associated with the person identity.

RL = Retry later. May also include:
- AUTHORITY ADMINISTRATION UNDER UPDATE = The person authority database is currently being updated.

5. REFERENCES

Input Message(s):

ADD:PAUTH
ADD:PCGRP
ADD:PROFL
CHG:PROFL
DEL:PAUTH
DEL:PCGRP
DEL:PROFL
VFY:PAUTH
VFY:PCGRP
VFY:PROFL

Output Message(s):

VFY:PAUTH
VFY:PCGRP
VFY:PROFL

Input Appendix(es):

APP:COMMAND-GRP
Other Manual(s):
235-105-210   Routine Operations and Maintenance
ADD:PROFL

**Software Release:** 5E14 and later

**Command Group:** AUTH

**Application:** 5,3B

**Type:** Input

1. **PURPOSE**

Adds a new profile identity (IDENT) to the profile authority database (PROFL). A profile is a set of command groups, which are detailed in the APP:COMMAND-GRP appendix of the Input Messages manual. A maximum of 64 profiles are allowed.

This input message is used in administering security of the maintenance interface. Refer to the Routine Operations and Maintenance manual for authority administration information.

2. **FORMAT**

ADD:PROFL,IDENT=a;

3. **EXPLANATION OF MESSAGE**

a

= Identity of the profile to be added to the profile authority database. A maximum of eight characters may be used.

4. **SYSTEM RESPONSE**

NG

= No good. May also include:

- **MAXIMUM NUMBER OF PROFILES EXCEEDED** = The maximum of 64 profiles are already defined.

- **PROFILE IDENTITY NOT UNIQUE** = The given profile identity is already in the profile authority database.

- **UNABLE TO ACCESS PROFILE ADMINISTRATION** = The profile authority database is inaccessible.

OK

= Good. The profile name is successfully added to the profile authority database.

RL

= Retry later. May also include:

- **PROFILE ADMINISTRATION UNDER UPDATE** = The profile authority database is currently being updated.

5. **REFERENCES**

Input Message(s):

ADD:PCGRP
ADD:TCGRP
CHG:PROFL
DEL:PCGRP
DEL:PROFL
DEL:TCGRP
VFY:PCGRP
VFY:PROFL
VFY:TCGRP

Output Message(s):

VFY:PCGRP
VFY:PROFL
VFY:TCGRP

Input Appendix(es):

APP:COMMAND-GRP

Other Manual(s):
235-105-210  Routine Operations and Maintenance
ADD:TAUTH

Software Release: 5E14 and later
Command Group: AUTH
Application: 5,3B
Type: Input

1. PURPOSE

Adds a terminal identity (TERM) to the terminal authority (TAUTH) database.

This input message is used in administering security of the maintenance interface. Refer to the Routine Operations and Maintenance manual for authority administration information.

2. FORMAT

ADD:TAUTH:TERM=a;

3. EXPLANATION OF MESSAGE

a  = Terminal identity in four characters, starting with "tty".

4. SYSTEM RESPONSE

NG  No good. May also include:
   - INVALID TERMINAL IDENTITY = The given terminal identity is either not four characters in length or does not start with "tty".
   - TERMINAL IDENTITY ALREADY EXISTS = The given terminal identity already exists in the terminal authority database.
   - UNABLE TO ACCESS AUTHORITY ADMINISTRATION = The terminal authority database is inaccessible.

OK  = Good. The terminal identity is added to the terminal authority database.

RL  = Retry later. May also include:
   - AUTHORITY ADMINISTRATION UNDER UPDATE = The terminal authority database is currently being updated.

5. REFERENCES

Input Message(s):
   - DEL:TAUTH
   - VFY:TAUTH

Output Message(s):
   - VFY:TAUTH

Other Manual(s):
   - 235-105-210  Routine Operations and Maintenance
ADD:TCGRP

**Software Release:** 5E14 and later
**Command Group:** AUTH
**Application:** 5,3B
**Type:** Input

1. PURPOSE

This command adds a command group or profile to the terminal-command group (TCGRP) relation for a given terminal identity (TERM).

Format 1 associates a command group (COMGR) with a terminal identity (TERM), allowing a user to access the messages in the command group from that terminal. Format 2 associates a profile (PROFL) with a TERM, allowing a user to access all the messages associated with a set of command groups from that terminal. This input message is used in administering security of the maintenance interface. Refer to the Routine Operations and Maintenance manual for authority administration information.

2. FORMAT

[1] ADD:TCGRP:TERM=a,COMGR=b;

3. EXPLANATION OF MESSAGE

<table>
<thead>
<tr>
<th>a</th>
<th>Terminal identity in four characters. The first three characters must be &quot;tty&quot;. The fourth character must be the terminal ID.</th>
</tr>
</thead>
<tbody>
<tr>
<td>b</td>
<td>Command group. Valid value(s):</td>
</tr>
<tr>
<td>ADMIN</td>
<td>System administrator only activities.</td>
</tr>
<tr>
<td>ALARM</td>
<td>Alarm manipulation.</td>
</tr>
<tr>
<td>AM</td>
<td>Administrative module maintenance.</td>
</tr>
<tr>
<td>AMA</td>
<td>Automatic message accounting.</td>
</tr>
<tr>
<td>AUDIT</td>
<td>Audits.</td>
</tr>
<tr>
<td>AUTH</td>
<td>Command and authority administration.</td>
</tr>
<tr>
<td>CCS</td>
<td>Common channel signaling.</td>
</tr>
<tr>
<td>CM</td>
<td>Communications module maintenance.</td>
</tr>
<tr>
<td>FHADM</td>
<td>File handling and administration.</td>
</tr>
<tr>
<td>MAINT</td>
<td>Routine maintenance activities.</td>
</tr>
<tr>
<td>MEAS</td>
<td>Measurements.</td>
</tr>
<tr>
<td>NMOC</td>
<td>Network management and overload control.</td>
</tr>
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</tr>
<tr>
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<td>Call trace.</td>
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<tr>
<td>TRKLN</td>
<td>Trunk and line maintenance.</td>
</tr>
</tbody>
</table>
Refer to the APP:COMMAND-GRP appendix in the Appendixes section of the Input Messages manual for more details.

\[c\] = A profile name which has been previously created using ADD:PROFL. The name is one to eight letters and/or digits.

4. SYSTEM RESPONSE

\[NG\] = No good. May also include:
- COMMAND GROUP ALREADY ASSIGNED TO THIS TERMINAL = The given command group has already been assigned to this terminal identity.
- INVALID TERMINAL IDENTITY = The given terminal identity is either not four characters in length or does not start with "tty".
- NON-EXISTENT TERMINAL IDENTITY = The given terminal identity does not exist in the terminal authority database.
- PROFILE ALREADY ASSIGNED = The given command profile (PROFL) has already been assigned to this terminal identity.
- PROFILE IDENTITY DOES NOT EXIST = The given profile does not exist in the profile authority database.
- UNABLE TO ACCESS AUTHORITY ADMINISTRATION = The terminal authority database is inaccessible.

\[OK\] = Good. The command group or profile is associated with the terminal identity.

\[RL\] = Retry later. May also include:
- AUTHORITY ADMINISTRATION UNDER UPDATE = The terminal authority database is currently being updated.

5. REFERENCES

Input Message(s):

ADD:PROFL
ADD:TAUTH
CHG:PROFL
DEL:PROFL
DEL:TAUTH
DEL:TCGRP
VFY:PROFL
VFY:TAUTH
VFY:TCGRP

Output Message(s):

VFY:PROFL
VFY:TAUTH
VFY:TCGRP

Input Appendix(es):
9. ALW
ALW:ACSR
Software Release: 5E14 and later
Command Group: RCV
Application: 5
Type: Input

1. PURPOSE
Requests that automatic customer station rearrangement (ACSR) requests be added or deleted from the ACSR queue. Machine-generated inhibitions of ACSR cannot be overridden with this input message.

2. FORMAT
ALW:ACSR, {ENQ|DEQ|ALL};

3. EXPLANATION OF MESSAGE
ALL = Allow adding and deleting of ACSR requests.
DEQ = Allow deleting (dequeueing) of ACSR requests.
ENQ = Allow adding (enqueueing) of ACSR requests.

4. SYSTEM RESPONSE
OK = Good. ACSR enqueueing or dequeueing request was received.

5. REFERENCES
Input Message(s):
INH:ACSR
OP:STAT

Output Message(s):
OP:STAT
ALW:ALE-A

Software Release: 5E14 - 5E15
Command Group: TRKLN
Application: 5
Type: Input

1. PURPOSE

Requests that the operation of automatic line evaluation (ALE) be allowed for the specified option.

The parameters are grouped into three classes.

Automatic ALE session output controls: The parameters LEVEL2, PRINT, and PER=REPT allow the controls used for generating output information for the automatically requested ALE sessions. These options determine which counts are to be used for the session and where the output is to be directed. These controls have no bearing on the output of information due to a manually requested ALE session.

The default values for these options are restored on an administrative module (AM) full initialization. No other type of initialization will change the requested settings.

Switching module (SM) controls: The SM parameters control the behavior of the level 1 performance monitoring and protocol error record (PER) generation. Refer to the Protocol Error Record Descriptions manual for additional information about a specific PER.

If the level 1 parameter is inhibited, then level 1 performance monitoring is not active for any of the U-interface digital subscriber lines (DSLs) on the SM. If allowed, then level 1 performance monitoring status for a U-interface DSL is determined by the level 1 performance monitoring group assigned to the DSL.

Automatically generated reports as well as the actual counting of level 1 errored seconds, severely errored seconds, and cyclic redundancy check (CRC) block errors (BE), may not resume for a period of up to 5 minutes.

If the PER generation parameter is inhibited, then no PERs will be recorded for any integrated services digital network (ISDN) protocol channels on the SM. If the parameter is allowed, then the PER generation parameter for the individual ISDN protocol channel determines if PERs are recorded for that channel.

Line/trunk controls: Line/trunk ALE controls consist of a set of level 1 parameters and the PER generation parameter. The level 1 parameters only apply to U-interface DSLs. The PER generation parameter applies to all ISDN protocol channels whether supported on lines or trunks.

If the PER generation inhibit is active, then no PERs will be recorded for the ISDN protocol channel.

Format 1 is used to allow the automatic session controls.

Format 2 is used to allow the SM control parameters.

Format 3 is used to allow the PER generation for a ISDN protocol channel.

The level 1 control parameters for U-interface DSLs are manipulated using the RC/V view 8.1 and 22.15 for performance monitoring group definitions.

Example 1: .ce ALW:ALE, LEVEL2, PER=REPT, PRINT
will allow the LEVEL2, PER=REPT, and PRINT controls allowing the execution of the LEVEL2 and PER jobs for automatically initiated ALE sessions. In addition, this message indicates that the results from the automatic session will be printed on the ROP.

Example 2: .ce ALW:ALE, PER=GEN, SM=7

will allow the PER generation control that enables the collection of PERs on SM 7.

Example 3:

ALW:ALE, PER=GEN, DN=2204000

will allow the PER generation control that enables the collection of PERs for the D-channel associated with the DSL for DN 2204000. In this case, the SM inhibit supersedes the channel inhibit; therefore, if the SM is inhibited, then PERs will not be collected for the channel regardless of the state of the channel inhibit.

2. FORMAT

[1] ALW:ALE{[,LEVEL2][,PRINT][,PER=REPT]};
[2] ALW:ALE, SM=a{&&b}{[,LEVEL1][,PER=GEN]};
[3] ALW:ALE,c[,CH=a^1],PER=GEN;

3. EXPLANATION OF MESSAGE

Refer to the Acronym section of the Input Messages manual for the full expansion of acronyms shown in the format.

LEVEL1 = Allow level 1 performance monitoring for the indicated SM. The default is level 1 allowed.

LEVEL2 = Process level 2 error counts. These counters exist in the protocol handler (PH). Allowing level 2 automatic ALE will report packet error counts and automatically reset the counters. The default is level 2 allowed.

PER=GEN = Allow PER generation for the indicated SM or channel. The default is that PER generation is allowed for the indicated SM or channel.

PER=REPT = Allow PER reporting for the automatically requested ALE sessions. The default is that PER reporting is allowed. Set the specified protocol error record (PER) parameters.

PRINT = Send output to the receive-only printer (ROP). The default is ROP output allowed.

a = SM number or the lower limit of a range of SM numbers. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

b = The upper limit of a range of SM numbers. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

c = Line identification. Valid value(s):
   AIUEN=f-n^1-o^1-p^1
   BST=d-e
   DEN=f-g-h-i
   DN=j
   DNUSEOC=f-h^1-n-o
DNUSTMC=f-h\textsuperscript{1}-n-o
DSLGM=f-b\textsuperscript{1}-k-l
IDCUEOC=f-m-n-o
IDCUTMC=f-m-n-o
ILEN=f-m-n-p
INEN=f-h\textsuperscript{1}-n-p
LCEN=f-q-r-s
LCKEN=f-e\textsuperscript{1}-m\textsuperscript{1}-f\textsuperscript{1}-g\textsuperscript{1}
MLHG=t-u
NEN=f-h\textsuperscript{1}-i\textsuperscript{1}-q\textsuperscript{1}-j\textsuperscript{1}-k\textsuperscript{1}-r\textsuperscript{1}-l\textsuperscript{1}
OAPO=d
OPT=d-e
PKTDN=j
PLTEN=f-s\textsuperscript{1}-t\textsuperscript{1}-u\textsuperscript{1}-v\textsuperscript{1}
PORT=f-v
PSUEN=f-b\textsuperscript{1}-c\textsuperscript{1}-d\textsuperscript{1}-l
RTRS=w-x
TKGMN=y-z
VBRI=f-w\textsuperscript{1}
VTRK=f-x\textsuperscript{1}-y\textsuperscript{1}

\textbf{d} = Operator service center number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

\textbf{e} = Relative position number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

\textbf{f} = Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

\textbf{g} = Digital line and trunk unit (DLTU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

\textbf{h} = Digital facility interface number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

\textbf{i} = Digital channel number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

\textbf{j} = The directory number associated with the port. This parameter can only be used to identify channels associated with DSLs.

\textbf{k} = Protocol handler (PH) channel group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

\textbf{l} = PH channel group member number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

\textbf{m} = Integrated digital carrier unit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

\textbf{n} = Remote terminal (RT) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
= Primary/protection identifier. Refer to the APP: RANGES appendix in the Appendixes section of the Input Messages manual.

p = RT line number. Refer to the APP: RANGES appendix in the Appendixes section of the Input Messages manual.

q = Integrated services line unit number. Refer to the APP: RANGES appendix in the Appendixes section of the Input Messages manual.

r = Line group controller number. Refer to the APP: RANGES appendix in the Appendixes section of the Input Messages manual.

s = Line card number. Refer to the APP: RANGES appendix in the Appendixes section of the Input Messages manual.

t = Multi-line hunt group number. Refer to the APP: RANGES appendix in the Appendixes section of the Input Messages manual.

u = Multi-line hunt group member number. Refer to the APP: RANGES appendix in the Appendixes section of the Input Messages manual.

v = Logical port number. Refer to the APP: RANGES appendix in the Appendixes section of the Input Messages manual.

w = Data link (group) number. Refer to the APP: RANGES appendix in the Appendixes section of the Input Messages manual.

x = Relative link (member) number. Refer to the APP: RANGES appendix in the Appendixes section of the Input Messages manual.

y = Trunk group number. Refer to the APP: RANGES appendix in the Appendixes section of the Input Messages manual.

z = Trunk group member number. Refer to the APP: RANGES appendix in the Appendixes section of the Input Messages manual.

a¹ = Channel type to be allowed (valid only for LCEN line identification). Valid value(s):
    B¹ = Channel B1.
    B² = Channel B2.
    D = D-channel (default).

b¹ = Packet switching unit (PSU) number. Refer to the APP: RANGES appendix in the Appendixes section of the Input Messages manual.

c¹ = PSU shelf number. Refer to the APP: RANGES appendix in the Appendixes section of the Input Messages manual.

d¹ = PSU channel group number. Refer to the APP: RANGES appendix in the Appendixes section of the Input Messages manual.

e¹ = Integrated service line unit 2 (ISLU2) number. Refer to the APP: RANGES appendix in the Appendixes section of the Input Messages manual.

f¹ = Line board number. Refer to the APP: RANGES appendix in the Appendixes section of the Input
Messages manual.

g\(^1\) = Line circuit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

h\(^1\) = Digital networking unit - synchronous optical network (SONET) (DNU-S) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

i\(^1\) = Data group (DG) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

j\(^1\) = Synchronous transport signal (STS) facility number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

k\(^1\) = Virtual tributary group (VTG) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

l\(^1\) = Digital signal level 0 (DS0) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

m\(^1\) = Line group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

n\(^1\) = Access interface unit (AIU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

o\(^1\) = AIU pack number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

p\(^1\) = AIU circuit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

q\(^1\) = SONET termination equipment (STE) facility number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

r\(^1\) = Virtual tributary member (VTM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

s\(^1\) = Peripheral control and timing (PCT) line and trunk unit number (PLTU). Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

t\(^1\) = PCT facility interface (PCTFI) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

u\(^1\) = Tributary number (T1FAC). Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

v\(^1\) = Channel number (CHAN). Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

w\(^1\) = Virtual BRI line number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

x\(^1\) = Virtual trunk facility number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
y^1 = Virtual trunk channel number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

NG = No good. This message was not recognized or was not acceptable. May also include:
- ALE FEATURE NOT LOADED = The ALE feature is not loaded in the switch software configuration.
- COMMUNICATION FAILURE = A system error has occurred.
- INVALID INPUT = Parameter to allow does not match entity to allow.
- PROCESS CREATION FAILURE = A system error has occurred.

OK = Good. Requested parameter has been allowed.

PF = Printout follows. Requested parameter allow has been initiated. Followed by the ALW:ALE output message.

RL = Retry later. May also include:
- AM IN MIN MODE = The AM is in minimum operation mode.
- REQUEST ALREADY IN PROGRESS = An ALE allow request is already running. Only one allow request is permitted at a time.

5. REFERENCES

Input Message(s):

EXC:ALE
INH:ALE
OP:ALE

Output Message(s):

ALW:ALE
EXC:ALE
INH:ALE
OP:ALE

Input Appendix(es):

APP:RANGES

Other Manual(s):
235-105-110 System Maintenance Requirements and Tools
235-105-220 Corrective Maintenance
235-600-755 Protocol Error Record Descriptions

RC/V View(s):
8.1 OFFICE PARAMETERS (MISCELLANEOUS)
22.15 PERFORMANCE MONITORING - THRESHOLD GROUP
1. PURPOSE

Requests that the operation of automatic line evaluation (ALE) be allowed for the specified option.

The parameters are grouped into three classes.

Automatic ALE session output controls: The parameters LEVEL2, PRINT, and PER=REPT allow the controls used for generating output information for the automatically requested ALE sessions. These options determine which counts are to be used for the session and where the output is to be directed. These controls have no bearing on the output of information due to a manually requested ALE session.

The default values for these options are restored on an administrative module (AM) full initialization. No other type of initialization will change the requested settings.

Switching module (SM) controls: The SM parameters control the behavior of the level 1 performance monitoring and protocol error record (PER) generation. Refer to the Protocol Error Record Descriptions manual for additional information about a specific PER.

If the level 1 parameter is inhibited, then level 1 performance monitoring is not active for any of the U-interface digital subscriber lines (DSLs) on the SM. If allowed, then level 1 performance monitoring status for a U-interface DSL is determined by the level 1 performance monitoring group assigned to the DSL.

NOTE: Automatically generated reports as well as the actual counting of level 1 errored seconds, severely errored seconds, and cyclic redundancy check (CRC) block errors (BE), may not resume for a period of up to 5 minutes.

If the PER generation parameter is inhibited, then no PERs will be recorded for any integrated services digital network (ISDN) protocol channels on the SM. If the parameter is allowed, then the PER generation parameter for the individual ISDN protocol channel determines if PERs are recorded for that channel.

Line/trunk controls: Line/trunk ALE controls consist of a set of level 1 parameters and the PER generation parameter. The level 1 parameters only apply to U-interface DSLs. The PER generation parameter applies to all ISDN protocol channels whether supported on lines or trunks.

After the introduction of PCF on PHE2 feature, ALE doesn't provide performance monitoring error count information on A10/A11/ETHERNET protocols, but PER is able to provide the protocol error histories on A10/A11/ETHERNET protocols on PCF PH. There are two kinds of PERs: level 2 and level 7. Level 2 PER retrieves the ethernet protocol error histories stored in the PH. Level 7 retrieves A10/A11 error histories stored in PH.

If the PER generation inhibit is active, then no PERs will be recorded for either the ISDN protocol channel or PCF PH.

Format 1 is used to allow the automatic session controls, only applies to ISDN ALE session.

Format 2 is used to allow the SM control parameters, applies to both ISDN channel and PCF PH. But for PCF PH,
PER is a required key and LEVEL1 is not applicable.

Format 3 is used to allow the PER generation for a ISDN protocol channel.

Format 4 is used to allow the PER generation for PCF PH.

The level 1 control parameters for U-interface DSLs are manipulated using the RC/V view 8.1 and 22.15 for performance monitoring group definitions.

Example 1:

ALW:ALE, LEVEL2, PER=REPT, PRINT

will allow the LEVEL2, PER=REPT, and PRINT controls allowing the execution of the LEVEL2 and PER jobs for automatically initiated ALE sessions. In addition, this message indicates that the results from the automatic session will be printed on the ROP.

Example 2:

ALW:ALE, PER=GEN, SM=7

will allow the PER generation control that enables the collection of PERs on SM 7, not only for the ISDN channels, but also for the PCF PH, if the PCF on PHE2 feature is activated.

Example 3:

ALW:ALE, PER=GEN, DN=2204000

will allow the PER generation control that enables the collection of PERs for the D-channel associated with the DSL for DN 2204000. In this example, the SM inhibit supersedes the channel inhibit; if the SM is inhibited, then PERs will not be collected for the channel regardless of the state of the channel inhibit.

Example 4:

ALW:ALE, PER=GEN, PCFIP=193.193.193.193

will allow the PER generation control that enables the collection of PERs associated with the PCF PH for PCF IP address 193.193.193.193. In this example, the SM inhibit supersedes the channel inhibit; therefore, if the SM is inhibited, then PERs will not be collected for the PCF PH regardless of the state of the PCF PH inhibit.

2. FORMAT

[1] ALW:ALE([,LEVEL2][,PRINT][,PER=REPT]);

[2] ALW:ALE, SM=a[&b]([,LEVEL1][,PER=GEN]);

[3] ALW:ALE, c[,CH=a1],PER=GEN;

[4] ALW:ALE, PCFIP=z1-z1-z1-z1,PER=GEN;

3. EXPLANATION OF MESSAGE

NOTE: Refer to the Acronym section of the Input Messages manual for the full expansion of acronyms shown in the
format.

**LEVEL1**
- Allow level 1 performance monitoring for the indicated SM. The default is level 1 allowed.

**LEVEL2**
- Process level 2 error counts. These counters exist in the protocol handler (PH). Allowing level 2 automatic ALE will report packet error counts and automatically reset the counters. The default is level 2 allowed.

**PER=GEN**
- Allow PER generation for the indicated SM or channel. The default is that PER generation is allowed for the indicated SM or channel.

**PER=REPT**
- Allow PER reporting for the automatically requested ALE sessions. The default is that PER reporting is allowed. Set the specified PER parameters.

**PRINT**
- Send output to the receive-only printer (ROP). The default is ROP output allowed.

*a* = SM number or the lower limit of a range of SM numbers. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

*b* = The upper limit of a range of SM numbers. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

*c* = Line identification. Valid value(s):

- AIUEN=f-n^1-o^1-p^1
- BST=d-e
- DEN=f-g-h-i
- DN=j
- DNUSEOC=f-h^1-n-o
- DNUSTMC=f-h^1-n-o
- DSLGM=f-b^1-k-l
- IDCUEOC=f-m-n-o
- IDCUTMC=f-m-n-o
- ILEN=f-m-n-p
- INEN=f-h^1-n-p
- LCEN=f-q-r-s
- LCKEN=f-e^1-m^1-f^1-g^1
- MLHG=t-u
- NEN=f-h^1-l^1-q^1-j^1-k^1-r^1-l^1
- OIUEN=f-a^2-b^2-c^2-d^2-k^1-r^1-l^1
- OAPO=d
- OPT=d-e
- PKTDN=j
- PLTEN=f-s^1-t^1-u^1-v^1
- PORT=f-v
- PSUEN=f-b^1-c^1-d^1-l
- RTRS=w-x
- TKGMN=y-z
- VBRI=f-w^1
- VTRK=f-x^1-y^1

*d* = Operator service center number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
e = Relative position number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
f = Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
g = Digital line and trunk unit (DLTU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
h = Digital facility interface number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
i = Digital channel number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
j = The directory number associated with the port. This parameter can only be used to identify channels associated with DSLs.
k = Protocol handler (PH) channel group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
l = PH channel group member number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
m = Integrated digital carrier unit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
n = Remote terminal (RT) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
o = Primary/protection identifier. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
p = RT line number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
q = Integrated services line unit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
r = Line group controller number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
s = Line card number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
t = Multi-line hunt group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
u = Multi-line hunt group member number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
v = Logical port number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
w = Data link (group) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
Relative link (member) number. Refer to the APP: RANGES appendix in the Appendixes section of the Input Messages manual.

Trunk group number. Refer to the APP: RANGES appendix in the Appendixes section of the Input Messages manual.

Trunk group member number. Refer to the APP: RANGES appendix in the Appendixes section of the Input Messages manual.

Channel type to be allowed (valid only for LCEN line identification). Valid value(s):
- B1 = Channel B1.
- D = D-channel (default).

Packet switching unit (PSU) number. Refer to the APP: RANGES appendix in the Appendixes section of the Input Messages manual.

PSU shelf number. Refer to the APP: RANGES appendix in the Appendixes section of the Input Messages manual.

PSU channel group number. Refer to the APP: RANGES appendix in the Appendixes section of the Input Messages manual.

Integrated service line unit 2 (ISLU2) number. Refer to the APP: RANGES appendix in the Appendixes section of the Input Messages manual.

Line board number. Refer to the APP: RANGES appendix in the Appendixes section of the Input Messages manual.

Line circuit number. Refer to the APP: RANGES appendix in the Appendixes section of the Input Messages manual.

Digital networking unit - synchronous optical network (SONET) (DNU-S) number. Refer to the APP: RANGES appendix in the Appendixes section of the Input Messages manual.

Data group (DG) number. Refer to the APP: RANGES appendix in the Appendixes section of the Input Messages manual.

Synchronous transport signal (STS) facility number. Refer to the APP: RANGES appendix in the Appendixes section of the Input Messages manual.

Virtual tributary group (VTG) number. Refer to the APP: RANGES appendix in the Appendixes section of the Input Messages manual.

Digital signal level 0 (DS0) number. Refer to the APP: RANGES appendix in the Appendixes section of the Input Messages manual.

Line group number. Refer to the APP: RANGES appendix in the Appendixes section of the Input Messages manual.

Access interface unit (AIU) number. Refer to the APP: RANGES appendix in the Appendixes section of the Input Messages manual.

AIU pack number. Refer to the APP: RANGES appendix in the Appendixes section of the Input Messages manual.
Messages manual.

\( p^1 \)
- AIU circuit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

\( q^1 \)
- SONET termination equipment (STE) facility number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

\( r^1 \)
- Virtual tributary member (VTM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

\( s^1 \)
- Peripheral control and timing (PCT) line and trunk unit number (PLTU). Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

\( t^1 \)
- PCT facility interface (PCTFI) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

\( u^1 \)
- Tributary number (T1FAC). Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

\( v^1 \)
- Channel number (CHAN). Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

\( w^1 \)
- Virtual BRI line number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

\( x^1 \)
- Virtual trunk facility number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

\( y^1 \)
- Virtual trunk channel number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

\( z^1 \)
- IP address field. Valid value is 0-255.

\( a^2 \)
- Optical interface unit (OIU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

\( b^2 \)
- Protection group (PG) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

\( c^2 \)
- Optical carrier level 3 (OC3) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

\( d^2 \)
- Synchronous transport signal level 1 (STS1) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

**NG**
- No good. This message was not recognized or was not acceptable. May also include:
  - **ALE FEATURE NOT LOADED** = The ALE feature is not loaded in the switch software configuration.
  - **COMMUNICATION FAILURE** = A system error has occurred.
  - **INVALID INPUT** = Parameter to allow does not match entity to allow.
  - **PROCESS CREATION FAILURE** = A system error has occurred.
= Good. Requested parameter has been allowed.

PF = Printout follows. Requested parameter allow has been initiated. Followed by the ALW:ALE output message.

RL = Retry later. May also include:
- AM IN MIN MODE = The AM is in minimum operation mode.
- REQUEST ALREADY IN PROGRESS = An ALE allow request is already running. Only one allow request is permitted at a time.

5. REFERENCES

Input Message(s):

EXC:ALE
INH:ALE
OP:ALE

Output Message(s):

ALW:ALE
EXC:ALE
INH:ALE
OP:ALE

Input Appendix(es):

APP:RANGES

Other Manual(s):
235-105-110 System Maintenance Requirements and Tools
235-105-220 Corrective Maintenance
235-600-755 Protocol Error Record Descriptions

RC/V View(s):
8.1 OFFICE PARAMETERS (MISCELLANEOUS)
22.15 PERFORMANCE MONITORING - THRESHOLD GROUP
ALW:ALM-A

Software Release: 5E14 - 5E16(1)
Command Group: ALARM
Application: 5
Type: Input

1. PURPOSE

Requests that alarm reporting on a scan point be allowed, according to type. Formats 1 through 4 are for alarms assigned to input/output processor (IOP) scan points. Format 5 is for alarms assigned to remote switching module (RSM), optical remote module (ORM), or two-mile remote module (TRM) metallic service unit (MSU) scan points and is available only in a multimodule RSM, ORM or TRM that has the alarm input option. Format 6 is for alarms assigned to remote alarm section (RAS) scan points. Format 7 is for alarms assigned to expansion access interface unit (EAIU) scan points.

2. FORMAT

[1] ALW:ALM,(BPSC=a|MFFUSE=b|MFFAN|MISC=c);
[2] ALW:ALM,ESM[,PWR];
[3] ALW:ALM,CNI,(FANALM|FRMFUSE|PWR);
[4] ALW:ALM,(MSGS=b|ONTC=b|TMS=b),(FANALM|FRMFUSE);
[5] ALW:ALM,RBPSC=d,SM=e;
[6] ALW:ALM,RAS,SCPT=f,SITE=g;
[7] ALW:ALM,EAIU=e-h,SCPT=f;

3. EXPLANATION OF MESSAGE

CNI = Common network interface.
ESM = External sanity monitor.
FANALM = Fan alarm.
FRMFUSE = Frame fuse alarm.
MFFAN = Miscellaneous frame fan.
MFFUSE = Miscellaneous frame fuse.
MSGS = Message switch.
ONTC = Office network timing complex.
PWR = Power.
SCPT = Scan point.
TMS = Time multiplexed switch.
a = Building/power scan point (BPSC) number.
b = Unit number. MSGS and TMS are for CM1 offices only. ONTC is for CM2 offices only.
c = Miscellaneous (MISC) IOP scan point number.
d = Remote building/power scan point (RBPSC) number.
e = Switching module (SM) number.
f = Scan point number.
g = Remote peripheral site number.
h = EAIU unit number.

4. SYSTEM RESPONSE

NG = No good. Invalid scan point, SM number or site number.
PF = Printout follows. The ALW:ALM output message follows.
RL = Retry later. Unable to process request or unable to communicate with SM.

5. REFERENCES

Input Message(s):

INH : ALM
OP : ALM

Output Message(s):

ALW : ALM
INH : ALM
REPT : ALM

Other Manual(s):
235-105-220  Corrective Maintenance

MCC Display Page(s):

105/106 (BLDG/POWER & ALARM CNTRLS)
119 (MISCELLANEOUS ALARMS)
1400 (RSM BLDG/PWR ALARMS)
1420 (RAS ALARMS)
1640 (REMOTE PERPH MISC ALARMS)
1. PURPOSE

Requests that alarm reporting on a scan point be allowed, according to type.

Formats 1 through 4 are for alarms assigned to input/output processor (IOP) scan points.

Format 5 is for alarms assigned to remote switching module (RSM), optical remote module (ORM), or two-mile remote module (TRM) metallic service unit (MSU) scan points and is available only in a multimodule RSM, ORM, or TRM that has the alarm input option.

Format 6 is for alarms assigned to remote alarm section (RAS) scan points.

Format 7 is for alarms assigned to expansion access interface unit (EAIU) scan points.

2. FORMAT

[1] ALW:ALM, {BPSC=a|MFFUSE=b|MFFAN|MISC=c|ASMCF};

[2] ALW:ALM, ESM[,PWR];

[3] ALW:ALM, CNI, {FANALM|FRMFUSE|PWR};

[4] ALW:ALM, {MSGS=b|ONTC=b|TMS=b}, {FANALM|FRMFUSE};

[5] ALW:ALM, RBPSC=d, SM=e;

[6] ALW:ALM, RAS, SCPT=f, SITE=g;

[7] ALW:ALM, EAIU=e-h, SCPT=f;

3. EXPLANATION OF MESSAGE

ASMCF = ASMC cabinet fuse.

CNI = Common network interface.

ESM = External sanity monitor.

FANALM = Fan alarm.

FRMFUSE = Frame fuse alarm.

MFFAN = Miscellaneous frame fan.
MFFUSE = Miscellaneous frame fuse.

MSGS = Message switch.

ONTC = Office network timing complex.

PWR = Power.

SCPT = Scan point.

TMS = Time multiplexed switch.

a = Building/power scan point (BPSC) number.

b = Unit number. MSGS and TMS are for CM1 offices only. ONTC is for CM2 offices only.

c = Miscellaneous (MISC) IOP scan point number.

d = Remote building/power scan point (RBPSC) number.

e = Switching module (SM) number.

f = Scan point number.

g = Remote peripheral site number.

h = EAIU unit number.

4. SYSTEM RESPONSE

NG = No good. Invalid scan point, SM number or site number.

PF = Printout follows. Followed by the ALW:ALM output message.

RL = Retry later. Unable to process request or unable to communicate with SM.

5. REFERENCES

Input Message(s):

INH:ALM
OP:ALM

Output Message(s):

ALW:ALM
INH:ALM
REPT:ALM

Other Manual(s):
235-105-220 Corrective Maintenance
MCC Display Page(s):
105/106 BLDG/POWER & ALARM CNTRLs
119 MISCELLANEOUS ALARMS
1400 RSM BLDG/PWR ALARMS
1420 RAS ALARMS
1640 REMOTE PERPH MISC ALARMS
ALW:AMA-AUTOST

Software Release: 5E14 and later
Command Group: AMA
Application: 5
Type: Input

1. PURPOSE

Requests that automatic message accounting (AMA) automatic tape writing be allowed. This input message is required following offline AMA automatic tape-writing sessions during software transitions since AMA sessions are inhibited when these sessions are ended.

2. FORMAT

ALW:AMA:AUTOST[,ST1|,ST2];

3. EXPLANATION OF MESSAGE

ST1 = Used if AMA data goes to the ST1 data stream.
ST2 = Used if AMA data goes to the ST2 data stream.

NOTE: For a single data stream office, the stream does not have to be specified as either an ST1 or ST2. However, for a dual stream office, the stream must be specified as either an ST1 or ST2.

4. SYSTEM RESPONSE

IP = In progress. Request accepted. The AMA monitor process has been called to cancel manual blocking of AMA automatic tape writing sessions previously blocked using the INH:AMA-AUTOST message. When the request is complete, the contents of the AMA control file will be output. Refer to the REPT:AMA-CONT output message.

NG = No good. Data stream checks failed.

RL = Retry later. A message could not be sent to the AMA monitor process. May also include:
- EVEN OFFLINE MHDS COULD NOT BE ACCESSED = Disk file controller (DFC) 0 could not be accessed in the equipment configuration database (ECD) or is not active (ACT) and/or DFC 2 can be accessed in the ECD but is not ACT or unequipped (UNEQIP). When this is the case, wait until all controllers for the even offline moving head disks (MHDs) are restored, or restore the appropriate controller using the RST:DFC input message with the UCL option. This message could occur prior to an offline AMA session during software transitions.

5. REFERENCES

Input Message(s):

INH:AMA-AUTOST
OP:AMA-CONTROLF
OP:AMA-STREAM
RST:DFC
Output Message(s):

REPT:AMA-CONT
REPT:AMA-TAPE-WHB

Other Manual(s):

Where 'x' is the release-specific version of the document.
235-105-24x  Generic Retrofit Procedures
ALW:AMA-SESSION

Software Release: 5E14 and later
Command Group: AMA
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Requests that automatic message accounting (AMA) teleprocessing sessions or tape writing sessions be allowed. This input message is required following offline AMA sessions during software transitions since AMA sessions are inhibited when these sessions end.

WARNING: It is important to note that since sessions following an offline tape or AMATPS session are being inhibited, that the user invoke the OP:AMA-DISK input message prior to the next session. If this is not done prior to the next ALW:AMA-SESSION and/or ALW:AMA-AUTOST and the amount of data on the offline disks is 0% and 0 block (no more data) as indicated by the termination message from the last session, it will be necessary to manually remove the retrofit site file (/updtmp/site/access.oflama).

2. FORMAT

ALW:AMA:SESSION[,ST1|,ST2];

3. EXPLANATION OF MESSAGE

ST1 = Used if AMA data goes to the ST1 data stream.
ST2 = Used if AMA data goes to the ST2 data stream.

NOTE: For a single data stream office, the stream does not have to be specified as either an ST1 or ST2. However, for a dual stream office, the stream must be specified as either an ST1 or ST2.

4. SYSTEM RESPONSE

IP = In progress. Request accepted. The AMA monitor process has been called to allow AMA teleprocessing or tape writing sessions that were inhibited with the INH:AMA-SESSION message. When the request is complete, the contents of the AMA control file will be output. Refer to the REPT:AMA-CONT output message.

NG = No good. Data stream checks failed.

RL = Retry later. A message could not be sent to the AMA monitor process. May also include:

- EVEN OFFLINE MHDS COULD NOT BE ACCESSED = Disk file controller (DFC) 0 could not be accessed in the equipment configuration database (ECD) or is not active (ACT) and/or DFC 2 can be accessed in the ECD but is not ACT or unequipped (UNEQIP). When this is the case, wait until all controllers for the even offline moving head disks (MHDs) are restored, or restore the appropriate controller using the RST:DFC input message with the UCL option. This message could occur prior to an offline AMA session during software transitions.
5. REFERENCES

Input Message(s):

INH:AMA-SESSION
OP:AMA-CONTROLF
OP:AMA-DISK
OP:AMA-STREAM
RST:DFC

Output Message(s):

REPT:AMA-CONT

Other Manual(s):

Where 'x' is the release-specific version of the document.
235-105-24x   Generic Retrofit Procedures
ALW:AMAIRR
Software Release: 5E14 and later
Command Group: AMA
Application: 5
Type: Input

1. PURPOSE
Requests that the printing of data related to an automatic message accounting irregularity (AMAIRR) be allowed when and if such an irregularity occurs.

2. FORMAT
ALW:AMAIRR;

3. EXPLANATION OF MESSAGE
No variables.

4. SYSTEM RESPONSE
OK = Good. The request has been received. A REPT:AMAIRR message will be printed for each subsequent call for which automatic message accounting cannot be determined.

5. REFERENCES
Input Message(s):
   INH:AMAIRR

Output Message(s):
   REPT:AMAIRR
ALW:AMALOST

Software Release: 5E14 and later
Command Group: AMA
Application: 5
Type: Input

1. PURPOSE
Requests that the printing of data related to a lost automatic message accounting (AMALOST) record be allowed when and if such a loss occurs.

2. FORMAT

ALW:AMALOST[,TRC];

3. EXPLANATION OF MESSAGE

TRC = Invoke an AMA trace of an AMALOST record if either a complete or a partial AMA record exists.

4. SYSTEM RESPONSE

OK = Good. The request has been received. All subsequent occurrences of lost AMA records will print an information report (REPT:AMALOST).

5. REFERENCES

Input Message(s):

INH:AMALOST

Output Message(s):

REPT:AMALOST
REPT:AMATRC

Other Manual(s):
235-190-101 Business and Residence Modular Features
235-190-300 Billing Features
ALW:AMATRC

Software Release: 5E14 and later
Command Group: AMA
Application: 5
Type: Input

1. PURPOSE

Format 1 requests that the printing of an automatic message accounting (AMA) record be allowed on the receive-only printer (ROP) for a specific originating and/or terminating directory number (DN). When an AMA record is generated whose originating or terminating DN matches any of the up to 5 DN(s) selected (that is, DN and PS flag are equal) the AMA record will be printed on the ROP.

NOTE: When placing a call to an INWATS or feature group A (FGA) facility the DN associated with the INWATS or FGA facility will be placed in the originating DN field of the AMA record.

With multiple DN tracing allowed, a maximum of five DNs can be entered for tracing. Without multiple DN tracing, a maximum of one DN can be entered for tracing. When a DN entered for tracing matches an existing DN, the trace option will be overwritten by the trace option of the DN entered. Refer to the Billing Features and Specifications manual for additional information about this feature.

NOTE: If several simultaneous (on average 7 or more) AMA records are generated matching the selected DN, there is a possibility that the ROP will get flooded and some AMA records may not get printed. The number that can be printed is dependent on the length of the individual records, as well as the size of the shared memory buffer available between the operational kernel process (OKP) and AM system processes.

Format 2 requests that each AMA record that is sent to the ROP using AMATRC be placed in the AMTRCLOG log file. When the FILE parameter is specified, each time a AMA record whose originating or terminating number matches any of the existing DN(s) is generated, the record will be printed on the ROP. In addition to being sent to the ROP the AMA record will be placed in the AMTRCLOG log file.

2. FORMAT

[1] ALW:AMATRC:DN=a[,PS][,b];


3. EXPLANATION OF MESSAGE

NOTE: Refer to the Acronym section of the Input Messages manual for the full expansion of acronyms shown in the format.

FILE = Requests that AMATRC output be placed in the AMATRC Log File in addition to the ROP.

a = The seven- or ten-digit directory number.

b = The option for tracing ORIG, TERM, or BOTH. The default will be ORIG if option for tracing is omitted.

4. SYSTEM RESPONSE

NG = No good. May also include:
- INVALID DIGIT ENTERED = Only digits, no alpha or special characters are accepted.
- SEVEN OR TEN DIGITS REQUIRED = Either seven or ten digits are required to perform the
trace if the Number Portability - NPA/NXX Growth feature is not ACTIVE

- 10 DIGIT DN REQUIRED = Ten digits are required to perform the trace if the Number Portability - NPA/NXX Growth feature is ACTIVE
- EXCEEDED 5 DN LIMIT = One or more DNs must be inhibited before another DN can be allowed for tracing.

OK

= Good. The request has been received. All subsequent AMA entries generated with the given originating or terminating directory number will be printed on the ROP. Refer to the REPT:AMATRC output message.

5. REFERENCES

Input Message(s):

INH:AMATRC
OP : AMATRC
OP : LOG

Output Message(s):

REPT : AMATRC
OP : AMATRC

Other Manual(s):
235-190-300  Billing Features and Specifications
235-190-127  Number Portability User's Guide
ALW:AUD-CMP
Software Release: 5E14 and later
Command Group: AUDIT
Application: 5
Type: Input

1. PURPOSE
Requests that a communication module processor (CMP) audit be allowed to execute automatically or an audit cycle
to execute routinely on one CMP.

2. FORMAT
ALW:AUD[a],CMP=0;

3. EXPLANATION OF MESSAGE

   a = Audit ID. Valid value(s):
      CYCLE = Allow the routine execution of the audit cycle (default).

4. SYSTEM RESPONSE

   NG = No good. May also include:
       - AUDIT NOT AVAILABLE IN CMP = The request has been denied because the audit specified
         in the 'a' variable does not exist in the CMP specified.
       - INVALID CMP = The specified CMP does not exist.
   OK = Good. The request has been received and completed. Audit or cycle has been allowed.

5. REFERENCES

   Input Message(s):
   INH:AUD

   Other Manual(s):
   235-600-400 Audits
ALW:AUD-ENV

Software Release: 5E14 and later
Command Group: AUDIT
Application: 5
Type: Input

1. PURPOSE

Allows a kernel process environment (OKP or SMKP) audit to execute automatically or allows an audit cycle in the administrative module (AM) to execute routinely.

2. FORMAT

ALW:AUD[a],ENV=b;

3. EXPLANATION OF MESSAGE

a = Audit(s) to be allowed. Valid value(s):
Audit ID
CYCLE = Routine audit cycle.

b = Type of process. Valid value(s):
OKP = Operational kernel process.
SMKP = Switch maintenance kernel process.

4. SYSTEM RESPONSE

NG = No good. May also include:
- ARGUMENT FOR ENV MISSING = The request has been denied because neither OKP nor SMKP were specified for variable 'b'.
- AUDIT NOT AVAILABLE IN SPECIFIED ENV = The request has been denied because the specified audit is not available in the requested kernel process.
- SM TYPE NOT VALID FOR THIS REQUEST = The request has been denied because an SM type (RSM, LSM, or HSM) was specified for a kernel process environment.

OK = Good. The request has been received and completed. Audit or audit cycle has been allowed.

5. REFERENCES

Input Message(s):

INH:AUD

Other Manual(s):
235-600-400 Audits
ALW:AUD-SM

Software Release: 5E14 and later
Command Group: AUDIT
Application: 5
Type: Input

1. PURPOSE

Allows a switching module (SM) audit to execute automatically or an audit cycle to execute routinely on one SM or a range of SMs.

2. FORMAT

ALW:AUD[=a],SM=b[&c][,RSM][,LSM][,HSM][,ORM][,TRM];

3. EXPLANATION OF MESSAGE

NOTE: Refer to the Acronym section of the Input Messages manual for the full expansion of acronyms shown in the format.

a = Audit(s) to be allowed. The default is CYCLE. Valid value(s):
   Audit ID
   CYCLE = Allow the routine execution of the audit cycle.

b = SM number, or lower limit of a range of SM number. The default is any type of SM.

c = Upper limit of a range of SM number.

4. SYSTEM RESPONSE

NG = No good. May also include:
   - AUDIT NOT AVAILABLE IN SM TYPE = The request has been denied because the audit specified in the 'a' variable does not exist in the SM type specified or does not exist in any SM type.
   - INVALID SM RANGE/TYP E COMBINATION = The request has been denied because either the range is not in ascending order, or there is not at least one SM of the specified type (or any type) within the range.

OK = Good. The request has been received and completed. Audit or cycle has been allowed.

RL = Retry later. May also include:
   - MESSAGE BROADCAST INTERNAL ERROR = The message cannot be sent to the specified SM(s) at the present time due to problems scheduling a job to broadcast the message.

5. REFERENCES

Input Message(s):

INH:AUD
Other Manual(s):
235-600-400  Audits
ALW:AUD-SODD
   Software Release: 5E14 and later
   Command Group: AUDIT
   Application: 5
   Type: Input

1. PURPOSE

Requests that either the full or incremental static office-dependent data (SODD) audit, which is to execute automatically, be allowed. The full audit will restart provided there are at least 15 minutes remaining in the audit schedule (refer to the SCHED:AUD-SODD input message.) The incremental audit will restart provided there are unaudited log files from the last ODD backup.

2. FORMAT

   ALW:AUD=SODD, {FULL | INCR};

3. EXPLANATION OF MESSAGE

   FULL = Allow the full SODD audit to be executed.

   INCR = Allow the incremental SODD audit to be executed.

4. SYSTEM RESPONSE

   OK = Good. The request has been received and completed; the SODD audit has been allowed.

5. REFERENCES

Input Message(s):

   INH:AUD-SODD
   OP:ST-AUD-SODD
   SCHED:AUD-SODD

Other Manual(s):

235-105-210  Routine Operations and Maintenance
ALW:AUD

Software Release: 5E14 and later
Command Group: AUDIT
Application: 5,3B
Type: Input

1. PURPOSE

Requests that the routine execution of one or more audits controlled by the system integrity monitor (SIM) that were previously inhibited be allowed. Entering the ALW:AUD input message clears one or more audit inhibits previously set to the manually inhibited or automatically inhibited state.

Separate inhibit states are provided for:

- All audits. When the inhibit state for ALL audits is set, routine audit scheduling is completely turned off. Entering the ALW:AUD input message with the ALL option reinitializes the audit control subsystem and turns on routine audit scheduling, but it has no effect on the inhibit states of individual audits.

- Each audit, identified by audit name and member number. When an audit is inhibited, either manually or automatically, it is not scheduled to run routinely or in response to a software request.

- Each instance of an audit. One instance of an audit may be inhibited while other instances are allowed to run routinely.

Audit inhibit states may be displayed by entering the OP:AUD input message.

2. FORMAT

ALW:AUD,{ALL|a [=b]|a=c,INS=d};

3. EXPLANATION OF MESSAGE

ALL = Specifies all audits controlled by SIM:

Clears a master inhibit state which is independent of the inhibit states for individual audits. Causes SIM to attempt to initialize the audit control system if it has not been successfully initialized.

If the control record in the equipment configuration data base for SIM has been modified, ALL causes SIM to reinitialize its internal control parameters according to the new content of the control record.

a = Audit name. Refer to the APP:MEM-NUM-AUD appendix in the Appendixes section of the Input Messages manual for administrative module (AM) audit names.

NOTE: If 'a' is specified without 'b', all members of the audit will be allowed.

b = Member number. Refer to the APP:MEM-NUM-AUD appendix in the Appendixes section of the Input Messages manual. May be specified as a single number or a list of numbers.

c = Single member number. Refer to the APP:MEM-NUM-AUD appendix in the Appendixes section of the Input Messages manual.

d = Instance name.
4. SYSTEM RESPONSE
Refer to the APP:AUD appendix in the Appendixes section of the Input Messages manual.

5. REFERENCES
Input Message(s):

INH:AUD
OP:AUD

Output Message(s):

ALW:AUD
OP:AUD

Input Appendix(es):

APP:MEM-NUM-AUD

Other Manual(s):
235-600-400 Audits
ALW:AUTOBKUP

**Software Release:** 5E15 and later  
**Command Group:** FHADM  
**Application:** 5,3B  
**Type:** Input

1. PURPOSE

Requests that previously inhibited automated system backups be allowed to execute.

Format 1 is used to allow automated system backups to execute.

Format 2 is used to output a message indicating if automated system backups are currently allowed or inhibited. The inhibit status of automated system backups will not change. If automated system backups are inhibited at the time ALW:AUTOBKUP:STAT is executed, backups will remain inhibited.

2. FORMAT

   [1] ALW:AUTOBKUP;


3. EXPLANATION OF MESSAGE

   No Variables.

4. SYSTEM RESPONSE

   PF = Printout follows. Followed by the ALW:AUTOBKUP output message.

5. REFERENCES

   Input Message(s):
   
   CLR:BKUP  
   INH:AUTOBKUP  
   OP:BKUP  
   SCHED:BKUP  
   SET:BKUP  
   STP:AUTOBKUP

   Output Message(s):
   
   ALW:AUTOBKUP

   Other Manual(s):
   
   235-105-210  *Routine Operations and Maintenance Procedures*
ALW:AUTOCFG
Software Release: 5E14 and later
Command Group: AM
Application: 5
Type: Input

1. PURPOSE
Requests that the automatic moving head disk (MHD) configuration feature be enabled for the entire office or for a specific MHD.

2. FORMAT
ALW:AUTOCFG[:MHD=a];

3. EXPLANATION OF MESSAGE
a = Number of the MHD to be enabled for auto MHD configuration. If not specified, it defaults to the entire office.

4. SYSTEM RESPONSE
OK = Good. Requested inhibit has been released.

5. REFERENCES
Input Message(s):
   INH:AUTOCFG
   OP:MHD-CFG
   SW:MHD

Output Message(s):
   REPT:MHD-CONFIG
   REPT:SW-MHD

Other Manual(s):
Where 'x' is the release-specific version of the specified manual.
235-600-30x  ECD/SG Data Base
235-105-210  Routine Operations and Maintenance
ALW:BCI

Software Release: 5E14 and later
Command Group: MAINT
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Allows originating (ORIG) or terminating (TERM) blocked call indication (BCI) reporting when a path is not available through both the A- and B-links of a line unit concentrator. Use this message to identify the lines in an office that experience A- and B-link blockages, and to indicate the severity of this problem on a line unit basis.

WARNING: The use of system resources to report A- and B-link blockages will negatively affect call processing capacity when frequent blockages occur. It is recommended that originating and terminating blockage studies not be done at the same time, and that the selected value for maximum messages (MAX) be kept small to avoid excessive message processing.

2. FORMAT

ALW:BCI, {ORIG|TERM}, SM=a[&b][,MAX=c];

3. EXPLANATION OF MESSAGE

a = Switching module (SM) number, or the lower limit in a range of SMs. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

b = Upper limit SM number in a range of SMs. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

c = Maximum number of blocked-call messages to be reported by an included SM before reporting is automatically halted for that SM.

4. SYSTEM RESPONSE

PF = Printout follows. The request was received and the REPT:BCI output message follows as blockages occur.

5. REFERENCES

Input Message(s):

OP:BCI
STP:BCI

Output Message(s):

OP:BCI
REPT:BCI
Input Appendix(es):

APP: RANGES

Other Manual(s):
235-070-100  Administration and Engineering Guidelines
ALW:BICCCQ-A

Software Release: 5E15 only
Command Group: CCS
Application: 5
Type: Input

1. PURPOSE

Allows automatic periodic execution of the common channel signaling (CCS) office-wide bearer independent call control (BICC) call instance code (CIC) query. This interoffice BICC CIC query (BQ) will correct the inconsistencies of near-end and far-end call processing and maintenance states of individual CICs. This input message will not affect any BICC CIC query request that is currently in progress.

However, the automatic BICC CIC query will not be allowed if the CIC query start time has not been set.

2. FORMAT

ALW:BICCCQ;

3. EXPLANATION OF MESSAGE

No variables.

4. SYSTEM RESPONSE

OK = The request has been accepted.
NG = No good. May also include:
   - BQ START TIME NOT SET = Use recent change and verify (RC/V) view 8.15 to select a BICC CQ (CIC query) START TIME, then re-enter this input message.

5. REFERENCES

RC/V View(s):
8.15 CCS OFFICE PARAMETERS

Other Manual(s):
235-200-115 CNI Common Channel Signaling
235-200-116 Signaling Gateway Common Channel Signaling
ALW:BICCCQ-B

**Software Release:** 5E16(1) and later  
**Command Group:** CCS  
**Application:** 5  
**Type:** Input

### 1. PURPOSE

Allows automatic periodic execution of the common channel signaling (CCS) office-wide bearer independent call control (BICC) call instance code (CIC) query. This interoffice BICC CIC query (BQ) will correct the inconsistencies of near-end and far-end call processing and maintenance states of individual CICs. This input message will not affect any BICC CIC query request that is currently in progress.

However, the automatic BICC CIC query will not be allowed if the CIC query start time has not been set.

### 2. FORMAT

ALW:BICCCQ;

### 3. EXPLANATION OF MESSAGE

No variables.

### 4. SYSTEM RESPONSE

- **OK** = The request has been accepted.
- **NG** = No good. May also include:
  - **BQ START TIME NOT SET** = Use recent change and verify (RC/V) view 8.15 to select a BICC CQ (CIC query) START TIME, then re-enter this input message.

### 5. REFERENCES

**RC/V View(s):**
- 8.15 CCS OFFICE PARAMETERS

**Other Manual(s):**
- 235-200-115 *CNI Common Channel Signaling*
- 235-200-116 *Signaling Gateway Common Channel Signaling*
ALW:BREVC

Software Release: 5E14 and later
Command Group: MAINT
Application: 5
Type: Input

1. PURPOSE

Requests that the effect of the INH:BREVC input message be canceled, and allows automatic brevity control to be reapplied.

Brevity control (BREVC) restricts and prints application terminal (TTY) output messages by message class and priority to reduce the quantity of messages printed at the receive-only printer (ROP). Brevity control does not affect manual or alarmed messages. The brevity status for each MSGCLS can be printed out using the OP:BREVC input message. The status for each system can be printed using the OP:SYSSTAT input message.

2. FORMAT


3. EXPLANATION OF MESSAGE

Note: Refer to the Acronym section of the Input Messages manual for the full expansion of acronyms shown in the format.

ALL = Allow all message classes.

a = Message class mnemonic. The MSGCLS for a particular message can be found on the corresponding output message manual page. The valid MSGCLS codes can be listed using the OP:LPS input message.

b = CMP number.

c = SM number or lower limit of a range of SM numbers.

d = Upper limit of a range of SM numbers.

4. SYSTEM RESPONSE

NG = No good. An illegal SM number or range was specified or, an illegal CMP number was specified.

OK = Good. The message was accepted and the action completed.

5. REFERENCES

Input Message(s):

INH:BREVC
OP:BREVC
OP:LPS
OP:SYSSTAT
Output Message(s):

OP : BREVC
OP : LPS

Other Manual(s):
235-105-220  Corrective Maintenance
235-105-250  System Recovery

MCC Display Page(s):

110 (SYSTEM INHIBITS)
1800 (SM INH & RCVRY CNTRL)
1850/1851 (CMP INH & RCVRY CNTRL)
**ALW:CALLMON**

**Software Release:** 5E14 and later  
**Command Group:** SYSRCVY  
**Application:** 5  
**Type:** Input

1. **PURPOSE**

Requests that the call monitor be allowed to start the cycle of making test calls and performing call completion analysis.

2. **FORMAT**

```
ALW:CALLMON;
```

3. **EXPLANATION OF MESSAGE**

No variables.

4. **SYSTEM RESPONSE**

**OK** = Good. The request was accepted.

5. **REFERENCES**

**Input Message(s):**

- CLR:CALLMON
- INH:CALLMON
- OP:CALLMON
- RTR:CALLMON
- SET:CALLMON

**Output Message(s):**

- OP:CALLMON
- REPT:CALLMON-CMR
- REPT:CALLMON-VTC

**Output Appendix(es):**

- APP:CALLMON

**Other Manual(s):**

- 235-105-110  *System Maintenance Requirements and Tools*
- 235-105-210  *Routine Operations and Maintenance*

**MCC Display Page(s):**

- 116 (MISCELLANEOUS)
1. PURPOSE
Requests that centralized automatic message accounting (CAMA) operator number identification (ONI) processing be allowed.

2. FORMAT

ALW:CAMAONI;

3. EXPLANATION OF MESSAGE
No variables.

4. SYSTEM RESPONSE

PF = Printout follows and minor alarm stops.

5. REFERENCES

Input Message(s):

INH:CAMAONI

Output Message(s):

ALW:CAMAONI
INH:CAMAONI
ALW:CCS-PSLT

Software Release: 5E14 and later
Command Group: CCS
Application: 5
Type: Input

1. PURPOSE

Requests the allow for the periodic signaling link test (PSLT).

2. FORMAT

ALW:CCS,PSLT,SM=a,[SET=b][MEMBER=c];

3. EXPLANATION OF MESSAGE

a = CCS global switching module (GSM) number.

b = Link set number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

c = Link set member. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

PF = Printout follows. Followed by the ALW:CCS,PSLT output message. This message indicates the success or failure of the allow request.

5. REFERENCES

Input Appendix(es):

APP:RANGES

Other Manual(s):
235-200-115 CNI Common Channel Signaling
235-200-116 Signaling Gateway Common Channel Signaling
ALW:CCSCQ

Software Release: 5E14 and later
Command Group: AUDIT
Application: 5
Type: Input

1. PURPOSE

Allows automatic periodic execution of the common channel signaling (CCS) office-wide circuit query. This interoffice circuit query will correct the inconsistencies of near-end and far-end call processing and maintenance states of individual trunk circuits. This command will not affect any circuit query request that is currently in progress.

However, the automatic circuit query will not be allowed if the circuit query start time has not been set.

2. FORMAT

ALW:CCSCQ;

3. EXPLANATION OF MESSAGE

No variables.

4. SYSTEM RESPONSE

OK = Request accepted.

NG = No good. May also include are:
- CQ START TIME NOT SET = Use RC/V 8.15 (Office Parameter View) to select a CQ START TIME, then re-enter this command again.

5. REFERENCES

Input Message(s):
- EXC:CCSCQ
- INH:CCSCQ
- OP:CCSCQ
- STP:CCSCQ
- OP:JOBSTATUS

Output Message(s):
- EXC:CCSCQ
- OP:CCSCQ
- STP:CCSCQ
- OP:JOBSTATUS

Other Manual(s):
- 235-200-115 CNI Common Channel Signaling
- 235-200-116 Signaling Gateway Common Channel Signaling
1. PURPOSE

Requests that the communication link normalization (CLNORM) process be allowed. When CLNORM is allowed, automatic communication link, foundation peripheral controller (FPC), and communication module processor (CMP) reconfiguration actions will be performed by CLNORM.

2. FORMAT

ALW:CLNORM;

3. EXPLANATION OF MESSAGE

No variables.

4. SYSTEM RESPONSE

PF = Printout follows. The request was accepted. The ALW:CLNORM output message follows.

5. REFERENCES

Input Message(s):

INH:CLNORM
SW:CMP
SW:FPC

Output Message(s):

ALW:CLNORM
INH:CLNORM

Other Manual(s):
235-105-250 System Recovery Procedures
ALW:CONFLOG

**Software Release:** 5E14 and later  
**Command Group:** FHADM  
**Application:** 5,3B  
**Type:** Input

1. **PURPOSE**

Requests that logging of all errors for a specified administrative module (AM) unit and any units beneath it that are reported to CONFIG be allowed. Error logging continues until the INH:CONFLOG input message is executed.

2. **FORMAT**

   ALW:CONFLOG:a=b;

3. **EXPLANATION OF MESSAGE**

   a = Unit name, as specified in the unit control block (UCB). Refer to the APP:MEM-NUM-UNIT appendix in the Appendixes section of the Input Messages manual.

   b = Unit number, as specified in the UCB. Refer to the APP:MEM-NUM-UNIT appendix in the Appendixes section of the Input Messages manual.

4. **SYSTEM RESPONSE**

   OK = Good. Request completed.

   PF = Printout follows. Followed by the ALW:CONFLOG output message.

   RL = Retry later. Equipment configuration database (ECD) access failure.

5. **REFERENCES**

   **Input Message(s):**

   INH:CONFLOG

   **Output Message(s):**

   ALW:CONFLOG

   **Input Appendix(es):**

   APP:MEM–NUM–UNIT

   **Other Manual(s):**

   235-105-210  *Routine Operations and Maintenance*
ALW:CORC

Software Release: 5E14 and later
Command Group: ODD
Application: 5
Type: Input

1. PURPOSE

Requests that customer-originated recent changes (CORCs) be allowed into the system if they were previously inhibited. The CORC box on the system inhibits page is lit when either CORCs or automatic customer station rearrangement (ACSR) is inhibited. Use the OP:STAT message to obtain the status of CORCs/ACSR. This message will not allow ACSR into the system. To allow ACSR, refer to the ALW:ACSR message.

2. FORMAT

ALW:CORC;

3. EXPLANATION OF MESSAGE

No variables.

4. SYSTEM RESPONSE

PF = Printout follows. Followed by the ALW:CORC output message.

5. REFERENCES

Input Message(s):

ALW:ACSR
ALW:RC
INH:CORC
OP:STAT

Output Message(s):

ALW:CORC

MCC Display Page(s):

110 (SYSTEM INHIBITS)
ALW:CORCLOG-SM

Software Release: 5E14 and later
Command Group: ODD
Application: 5
Type: Input

1. PURPOSE
To enable the logging of customer-originated recent changes for one or more switching modules (SMs).

2. FORMAT
ALW:CORCLOG,SM=a;

3. EXPLANATION OF MESSAGE
a = SM number or range lower limit if a of SM numbers.
b = Upper limit if a range of SM numbers.

4. SYSTEM RESPONSE
NG = No good. The input message is not valid.
OK = Good. The request is accepted.

5. REFERENCES
Input Message(s):
   ALW:RCLOG
ALW:CPUQADM

Software Release: 5E14 and later
Command Group: MAINT
Application: 5
Type: Input

1. PURPOSE

Permits the redistribution of call pick up (CPU) queues from one switching module (SM) to another SM based on the resources available per SM.

2. FORMAT

ALW:CPUQADM;

3. EXPLANATION OF MESSAGE

No variables.

4. SYSTEM RESPONSE

PF = Printout follows. May also include:
- CPU QUEUE ADMINISTRATION SUCCESSFULLY COMPLETED = All processing in determining CPU queue redistribution has been completed along with redistributing the queues to another SM if needed.
- REDISTRIBUTION OF CPU QUEUES NOT NECESSARY AT THIS TIME = The read of certain data has indicated that there is no reason to redistribute the CPU queues.
- UNABLE TO REDISTRIBUTE CPU QUEUES AT THIS TIME = The read or update of certain static relations have failed due to data base inconsistency or inability to perform cross processor reads or updates. A check to see if any SM is not linked to the administration module (AM) will determine if the redistribution of CPU queues should be tried again at a time when all SMs are linked.

5. REFERENCES

None.
ALW:DCGRPT

Software Release: 5E14 and later
Command Group: MEAS
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Requests that the reporting of information related to calls pegging the default cell group (DCG) be allowed. The default cell group is the zero cell group. Cell groups are used for division of revenue traffic separation. Calls pegging the zero cell group are due to division of revenue translation errors. Allowing this report under those conditions will provide reports of originating and terminating information for the calls pegging the zero cell group. The report will be terminated automatically after printing 32 reports.

WARNING: This message should not be used during periods of heavy receive-only printer (ROP) usage. The output from this message, REPT DCGRPT, can be throttled during periods of heavy ROP output. The impact of throttling is that anywhere from one to all of the reports, including the “Auto Termination” message, may not be printed.

2. FORMAT

ALW:DCGRPT;

3. EXPLANATION OF MESSAGE

No variables.

4. SYSTEM RESPONSE

NG = No good. May also include:
   - ALREADY ALLOWED = The request has been denied because the report has already been allowed.
   - NOT ALLOWED – DIV OF REV OPTION OFF = The request has been denied because division of revenue option must be on.

OK = Good. The request has been accepted. All subsequent occurrences of calls pegging the default cell group will print an information report. Refer to the REPT:DCGRPT output message.

5. REFERENCES

Input Message(s):

STP:DCGRPT

Output Message(s):

REPT:DCGRPT
Other Manual(s):
235-070-100  Administration and Engineering Guidelines
TG-5 (235-080-100)  Translation Guide
ALW:DEBUG

Software Release: 5E14 and later
Command Group: TRKLN
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Requests that debugging messages be allowed to be printed for a given feature. Allowing debugging messages on a switching module (SM) causes additional ASSERT, PTRACE, and debugging output messages to be printed during error handling.

NOTE: The PTRACE message class must be allowed in order to print PTRACE messages. Refer to the CHG:LPS-MSGCLS input message.

WARNING: Before using this input message, refer to the TECHNICAL ASSISTANCE portion of the INTRODUCTION section of the Input Messages manual. The user is responsible for any effects on system operation that result from the use of this input message.

Using the METSUCESS option will result in the output message REPT:METALLIC being printed for every successful metallic path setup completion. This could result in a large number of output messages being sent to the ROP printer if automated metallic testing is being done with this option allowed.

Do not leave the debugger allowed for an indefinite period of time.

Format 1 is for ALE, CCS7MTCE, DIGITAL, METALLIC, METPTRACE, METALLMSG, METRESBLK, MESTSWBLK, METHWFAIL, METSUCESS, and MLT SM only cases.

Format 2 is for CCS7MTCE and MLT AM only cases.

Format 3 is for MLT AM and SM cases.

2. FORMAT

[1] ALW:DEBUG,a,SM[=b[&c]];

[2] ALW:DEBUG,a,AM;

[3] ALW:DEBUG,a;

3. EXPLANATION OF MESSAGE

a = Feature with additional debugging messages. Valid value(s):
   ALE = Automatic line evaluation.
   CCS7MTCE = Common channel signal maintenance activity.
   DIGITAL = Digital testing of lines (TST:DSL) and trunks (TST:TRK).
   METALLIC = Metallic path setup ASSERT and PTRACE messages with low-level unformatted information, not intended for general customer use.
   METALLMSG = Metallic path setup blockage and failure (REPT:METALLIC).
NOTE: Using METALLMSG will also allow METRESBLK, METSWBLK, and METHWFAIL.

METHWFAIL = Metallic path setup hardware failure (REPT:METALLIC).
METPTRACE = Metallic related PTRACE messages.
METRESBLK = Metallic path setup resource blockage (REPT:METALLIC).
METSUCCESS = Metallic path setup completed successfully (REPT:METALLIC).
METSWBLK = Metallic path setup software blockage (REPT:METALLIC).
MLT = Mechanized loop test.
TSTPATH = Test path application (TST:PATH).

b = SM number or the lower limit of a range of SM numbers (defaults to all equipped SMs). Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

c = The upper limit of a range of SM numbers. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

NG = No good. The message was not recognized or acceptable.
PF = Printout follows. Followed by the ALW:DEBUG output message.

5. REFERENCES

Input Message(s):

CHG:LPS-MSGCLS
INH:DEBUG
OP:DEBUG
TST:DSL
TST:TRK

Output Message(s):

ALW:DEBUG
INH:DEBUG
OP:DEBUG
REPT:METALLIC

Input Appendix(es):

APP:RANGES

Other Manual(s):
235-105-220 Corrective Maintenance
ALW:DLNHB

Software Release: 5E14 and later
Command Group: CCS
Application: 5
Type: Input

1. PURPOSE

Requests that the common network interface (CNI) automatic direct link node (DLN) heartbeat test be allowed. The ALW:DLNHB and INH:DLNHB input messages form the basic on/off mechanism for DLN heartbeat. When the ALW:DLNHB is issued, the "DLN heartbeat test" checks each switching module (SM) for its ability to communicate with the DLN. It cycles through all the SMs checking one every 30 seconds. This input message will allow the automatic testing to continue until and INH:DLNHB is issued.

2. FORMAT

ALW:DLNHB;

3. EXPLANATION OF MESSAGE

No variables.

4. SYSTEM RESPONSE

NG = No good. May also include:
- DLNs ARE NOT EQUIPPED = DLN heartbeat is neither necessary nor enabled when the CNI ring is not equipped with DLNs.

OK = Good. Automatic testing allowed.

5. REFERENCES

Input Message(s):

INH:DLNHB

Output Message(s):

REPT:DLNHB

Other Manual(s):
235-200-115  CNI Common Channel Signaling
235-200-116  Signaling Gateway Common Channel Signaling
ALW:DMQ

Software Release: 5E14 and later
Command Group: MAINT
Application: 5,3B
Type: Input

1. PURPOSE

Allows previously inhibited or suspended sources to send automatic maintenance requests to the administrative module (AM) maintenance input request administrator (MIRA).

Format 1 reverses the effect of an inhibit source message (INH:DMQ) for a specified source of automatic maintenance requests. Format 2 is valid only while execution of deferred maintenance requests is suspended during system recovery. It allows execution of deferred maintenance requests during system recovery.

2. FORMAT

[1] ALW:DMQ:SRC=a;


3. EXPLANATION OF MESSAGE

a = Three-character source name. Valid value(s):
   ADP = Automatic diagnostic process.
   ALL = Allows all automatic maintenance requests by clearing the inhibited sources.
   ARR = Automatic ring recovery.
   REX = Routine exerciser.

4. SYSTEM RESPONSE

PF = Printout follows. Followed by the ALW:DMQ output message.

5. REFERENCES

Input Message(s):

   INH:DMQ
   OP:DMQ

Output Message(s):

   ALW:DMQ

Other Manual(s):

235-105-220 Corrective Maintenance
ALW:DOC

Software Release: 5E14 and later
Command Group: NMOC
Application: 5
Type: Input

1. PURPOSE

Requests that dynamic overload control (DOC) treatment be allowed upon the reception of DOC signals for a specified trunk group.

2. FORMAT

ALW:DOC, TG=a;

3. EXPLANATION OF MESSAGE

a = Trunk group number.

4. SYSTEM RESPONSE

NG = No good. May also include:
   - INVALID REQUEST = The request has been denied. This office is not equipped to process the request entered.

PF = Printout follows. Followed by the ALW:DOC output message.

RL = Retry later. May also include:
   - RESOURCE SHORTAGE = The necessary resources are not available.

5. REFERENCES

Input Message(s):
   INH:DOC
   OP:DOC

Output Message(s):
   ALW:DOC

Other Manual(s):
235-200-115   CNI Common Channel Signaling
235-200-116   Signaling Gateway Signaling

MCC Display Page(s):
130 (NM EXCEPTION)
ALW:DRHR

Software Release: 5E14 and later
Command Group: MEAS
Application: 5
Type: Input

1. PURPOSE

Allows the division of revenue hourly (DRHR) report to be output to the traffic channel. The report will continue to be made until turned off by the INH:DRHR message.

2. FORMAT

ALW:DRHR;

3. EXPLANATION OF MESSAGE

No variables.

4. SYSTEM RESPONSE

NG

= No good. May also include:
- PRINT ALLOCATION EXCEEDED = The message allocation for this office has reached its limit.
  The requested report has not been allowed.

OK

= Good. The requested report has been allowed. May also include:
- DIV OF REV OPTION OFF = The report has been allowed, but may not be seen because the option for division of revenue reporting or for an hourly report is turned off.
- LPS SET TO DISCARD = The report has been allowed, but may not be seen because the log/print status is set to discard this class of message.

5. REFERENCES

Input Message(s):

CHG:LPS-MSGCLS
INH:DRHR
OP:MEASTAT

Output Message(s):

OP:MEASTAT-PRNT

Other Manual(s):
235-070-100 Administrative Guidelines
1. **PURPOSE**

Requests that the transmission of dynamic overload control (DOC) signals and the application of selective incoming load control (SILC) be allowed.

2. **FORMAT**

   ALW:DSILC;

3. **EXPLANATION OF MESSAGE**

   No variables.

4. **SYSTEM RESPONSE**

   - **NG** = No good. May also include:
     - INVALID REQUEST = The request has been denied. This office is not equipped to process the request entered.

   - **PF** = Printout follows. Followed by the ALW:DSILC output message.

   - **RL** = Retry later. May also include:
     - RESOURCE SHORTAGE = The necessary resources are not available.

5. **REFERENCES**

   **Input Message(s):**

   INH:DSILC
   OP:DOC
   OP:SILC

   **Output Message(s):**

   ALW:DSILC

   **Other Manual(s):**

   235-200-115   CNI Common Channel Signaling
   235-200-116   Signaling Gateway Common Channel Signaling

   **MCC Display Page(s):**

   130 (NM EXCEPTION)
1. PURPOSE

Allows the logging and processing of emergency action interface (EAI) error interrupts from the 3B21D computer control unit (CU) specified in the identification field. If a CU is not specified with the input request, EAI error interrupts for both CUs are allowed.

NOTE: The 3B20D computer CUs do not have EAI error interrupts.

2. FORMAT

[1] ALW:EAIINT;


3. EXPLANATION OF MESSAGE

a = CU number 0 or 1.

4. SYSTEM RESPONSE

PF = Printout Follows. Followed by the ALW:EAIINT output message.

?I = Invalid response. May also include:
- INPUT ERROR = Identification field error.

5. REFERENCES

Input Message(s):

ALW:ERRCHK
INH:EAIINT
OP:ERRCHK

Output Message(s):

ALW:EAIINT
INH:EAIINT
OP:ERRCHK
ALW:ECDAUD

Software Release: 5E14 and later
Command Group: MAINT
Application: 5
Type: Input

1. PURPOSE
Requests that the execution of the on-switch ECD audit be allowed.

2. FORMAT
ALW:ECDAUD;

3. EXPLANATION OF MESSAGE
No variables.

4. SYSTEM RESPONSE
PF = Printout follows. Followed by the ALW:ECDAUD output message.

5. REFERENCES
Input Message(s):

   STOP:ECDAUD
   INH:ECDAUD
   EXC:ECDAUD
   SCHED:ECDAUD
   OP:ECDAUD

Output Message(s):

   ALW:ECDAUD

Other Manual(s):
235-100-125 System Description
235-105-210 Routine Operations and Maintenance Manual
ALW:EON5REPT
   Software Release: 5E14 and later
   Command Group: MAINT
   Application: 5
   Type: Input

1. PURPOSE

This command is associated with a secured or proprietary feature. Refer to the SECURED/PROPRIETARY FEATURES portion of the INTRODUCTION section of this manual.

2. FORMAT

   ALW:EON5REPT[,THR=a];

3. EXPLANATION OF MESSAGE

   a = A threshold range from 1 to 100.

4. SYSTEM RESPONSE

   NO = No. Feature not available.
   RL = Retry later.
   OK = Good. Request was accepted.

5. REFERENCES

   Input Message(s):
      INH:EON5REPT

   Output Message(s):
      REPT:EON5-DRA
      REPT:EON5-TE
ALW:ERRCHK

Software Release: 5E14 and later
Command Group: SYSRCVY
Application: 5,3B
Type: Input

1. PURPOSE

Allows the logging and processing of all administrative module (AM) computer error sources. This message causes the inhibit administrator to set the inhibit status to allowed for all AM computer inhibit sources. These include HDWCHK, SFTCHK, ERRINT, and the ERRSRC representing the control unit (CU) complexes.

2. FORMAT

ALW:ERRCHK;

3. EXPLANATION OF MESSAGE

No variables.

4. SYSTEM RESPONSE

PF = Printout follows. Followed by the ALW:ERRCHK output message.

5. REFERENCES

Input Message(s):

ALW:ERRINT
ALW:ERRSRC
ALW:HDWCHK
ALW:SFTCHK
INH:ERRCHK
OP:ERRCHK

Output Message(s):

ALW:ERRCHK
INH:ERRCHK
OP:ERRCHK
ALW:ERRINT
Software Release: 5E14 and later
Command Group: SYSRCVY
Application: 5,3B
Type: Input

1. PURPOSE
Requests that the logging and processing of administrative module (AM) error interrupts attached to the unit specified in the identification field be allowed. If a unit name is not specified with the input request, then error interrupts for all AM units are allowed.

2. FORMAT
ALW:ERRINT[:(a b[,c d])];

3. EXPLANATION OF MESSAGE

  a = Unit name. Refer to the APP:MEM-NUM-UNIT appendix in the Appendixes section of the Input Messages manual for computer unit names.

  NOTE: Allowing a control unit (CU) in an active/standby duplex configuration allows both CUs since they must be kept in identical states.

  b = Unit number. Refer to the APP:MEM-NUM-UNIT appendix in the Appendixes section of the Input Messages manual.

  c = Subunit name, if a = CU. Refer to the APP:MEM-NUM-CU appendix in the Appendixes section of the Input Messages manual for subunit names.

  d = Subunit number. Refer to the APP:MEM-NUM-CU appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE
NG = No good. Indicates the unit name and number specified was found in the database but is unequipped.

PF = Printout follows. Followed by the ALW:ERRINT output message.

?I = Identification field error. Possibly indicates the unit name and number specified cannot be found in the database.

5. REFERENCES
Input Message(s):

  ALW:ERRCHK
  INH:ERRINT
  OP:ERRCHK

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Output Message(s):

ALW: ERRINT
INH: ERRINT
OP: ERRCHK

Input Appendix(es):

APP: MEM–NUM–CU
APP: MEM–NUM–UNIT

Other Manual(s):
235-105-110  System Maintenance Requirements and Tools
ALW:ERRSRC

Software Release: 5E14 and later
Command Group: SYSRCVY
Application: 5,3B
Type: Input

1. PURPOSE

Requests that the logging and processing of errors specific to the pseudo-nodes representing the administrative module (AM) control unit (CU) communities be allowed.

This message causes the inhibit administrator to set the inhibit status to allowed for the CU pseudo-nodes.

2. FORMAT

ALW:ERRSRC [AM];

3. EXPLANATION OF MESSAGE

No variables.

4. SYSTEM RESPONSE

PF = Printout follows. Followed by the ALW:ERRSRC output message.

5. REFERENCES

Input Message(s):

ALW:ERRCHK
INH:ERRSRC
OP:ERRCHK

Output Message(s):

ALW:ERRSRC
INH:ERRSRC
OP:ERRCHK
ALW:ESP

Software Release: 5E14 and later
Command Group: NMOC
Application: 5
Type: Input

1. PURPOSE

Requests that essential service protection (ESP) be enabled. This allows designated lines to receive preferential origination treatment.

2. FORMAT

ALW:ESP!

3. EXPLANATION OF MESSAGE

No variables.

4. SYSTEM RESPONSE

PF = Printout follows. The ALW:ESP output message follows. A response will also be reflected on page 109 of the Master Control Center (MCC).

5. REFERENCES

Input Message(s):

INH:ESP

Output Message(s):

ALW:ESP
INH:ESP

Other Manual(s):
235-105-110 Maintenance Requirements and Tools
235-190-115 Local and Toll System Features

MCC Display Page(s):

109 (OVERLOAD)

RC/V View(s):

8.1 (OFFICE PARAMETERS)
ALW:ESQREPT
Software Release: 5E15 and later
Command Group: MAINT
Application: 5
Type: Input

1. PURPOSE
This message is associated with a secured or proprietary feature. Refer to the SECURED/PROPRIETARY FEATURES portion of the INTRODUCTION section of this manual.

2. FORMAT
ALW:ESQREPT [,THR=a]

3. EXPLANATION OF MESSAGE
a = A threshold range (1 to 100).

4. SYSTEM RESPONSE
NO = No. Feature not available.
RL = Retry later.
OK = Good. Request was accepted.

5. REFERENCES
Input Message(s):
   INH:ESQREPT

Output Message(s):
   REPT:EON5–DRA
   REPT:EON5–TE
ALW:EXTPM

Software Release: 5E17(1) and later
Command Group: MAINT
Application: 5
Type: Input

1. PURPOSE

Allows the initiation of external performance monitoring (PM) sessions over one or more packet switch unit (PSU) asynchronous transfer mode (ATM) links (PSALNK).

A PSALNK provides the ability to interconnect the local PSU with multiple other PSUs in the ATM network, as designated by their community address and subnetwork identifiers. Each of these PSU-to-PSU connections can be monitored internally for performance-impacting metrics in accordance to the GR-1248 ATM standard and included in the relevant switch measurement reports for output. Similarly, the far endpoint of each PSU-to-PSU connection can request that the identical virtual circuit be monitored.

The purpose of this input message is to allow these external requests for PM activity by far endpoints to be fulfilled by the host switch. Each PM session (either internally or externally initiated) consumes a set amount of finite resources on each end of the target virtual circuit. Once these resources have been exhausted, additional PM requests will be denied. The corresponding INH:EXTPM input message provides a means of disabling external PM activity.

If the PSALNK option is included, only the specified PSALNK will be affected by the input message. Otherwise, all PSALNKs in the office will be affected by the input message.

PM is only supported over a virtual circuit terminated locally by a PSALNK hosted on a Protocol Handler for ATM Version 2 (PHA2).

2. FORMAT

ALW:EXTPM[,PSALNK=a-b-c];

3. EXPLANATION OF MESSAGE

a = Switching module (SM) number of the target PSALNK.
b = PSU number of the target PSALNK.
c = Link number of the target PSALNK.

4. SYSTEM RESPONSE

PF = Printout follows. Followed by one or more ALW:EXTPM output messages.

NG = No good. May also include:
- NO PHA2 PSALNK EQUIPPED = The request has been denied. The message is valid but no PSALNKs within the scope of the input message were detected in the current equipage.
- PSALNK UNEQUIPPED = The request has been denied. The message is valid but the specified PSALNK was not detected in the current equipage.
- MUST BE A PHA2 PSALNK = The request has been denied. The message is valid but the specified PSALNK is not hosted by a PHA2.
- DATABASE ERROR = The request has been denied. The message is valid but an internal
database error has prevented any action from being taken.

- **INTERNAL CORRUPTION** = The request has been denied. The message is valid but an internal data corruption error has prevented any action from being taken.

**RL** = Retry later. May also include:

- **PREVIOUS REQUEST IN PROGRESS** = The request has been denied. The message is valid but the previous request must complete before a new request can be made.

5. **REFERENCES**

Input Message(s):

- ALW:PM
- INH:EXTPM
- INH:PM
- OP:LIST-FLOWACT

Output Message(s):

- ALW:EXTPM
- ALW:PM
- INH:EXTPM
- INH:PM
- OP:LIST-FLOWACT

Input Appendix(es):

- APP:RANGES
1. PURPOSE

Request to allow reports of transmission facility performance monitoring (PM) threshold crossing alert (TCA) report output messages (refer to the REPT:FAC output message) for facilities terminated on a digital facilities interface (DFI) model 2 (DFI-2), an integrated digital carrier unit (IDCU), or a digital networking unit - synchronous optical network (SONET) (DNU-S) number. This message does not override alert inhibits specified using recent change/verify (RC/V) views 8.1, 20.23, 20.25, or 22.15. To determine a unit's alert control status refer to the OP:FAC input message.

2. FORMAT

ALW:FAC,a;

3. EXPLANATION OF MESSAGE

a = Valid value(s):

<table>
<thead>
<tr>
<th>DFAC=n-b-c-d[,e]</th>
<th>IDCU=n-f[,e]</th>
</tr>
</thead>
<tbody>
<tr>
<td>DFI=n-b-c[,e]</td>
<td>IFAC=n-f-g[,e]</td>
</tr>
<tr>
<td>DLTU=n-b[,e]</td>
<td>IDCORT=n-f-h[,e]</td>
</tr>
<tr>
<td>DNUS=n-l[,e]</td>
<td>SM=n</td>
</tr>
<tr>
<td>DNUSRT=n-i-h[,e]</td>
<td>EC1STE=n-i-j-k[,e]</td>
</tr>
<tr>
<td>RS1SFAC=n-i-j-k-l-m-o[,e]</td>
<td>V1IFAC=n-i-j-k-l-m-o[,e]</td>
</tr>
</tbody>
</table>

b = DLTU number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

c = DFI number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

d = Facility number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

e = Type of alerts to allow. Valid value(s):

<table>
<thead>
<tr>
<th>ALL</th>
<th>DAY</th>
<th>INT</th>
</tr>
</thead>
</table>
| Both 15-minute and daily alerts (default). | Daily alerts. | 15-minute interval alerts.

f = IDCU number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

g = IFAC number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

h = TR303 RT number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

i = DNU-S number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
4. SYSTEM RESPONSE

PF = Printout follows. The request has been accepted and the ALW:FAC output message follows.
NG = No good. The input contained an illegal specification.
RL = Retry later. The request has been denied, probably due to system load.

5. REFERENCES

Input Message(s):

    INH:FAC
    INIT:FAC
    OP:FAC

Output Message(s):

    ALW:FAC
    INH:FAC
    INIT:FAC
    OP:FAC
    REPT:FAC

Input Appendix(es):

    APP:RANGES

Other Manual(s):

235-105-220  Corrective Maintenance Procedures

RC/V View(s):

8.1 (OFFICE PARAMETERS (MISCELLANEOUS))
20.23 (IDCU FACILITY EQUIPMENT)
20.25 (DNU-S PERFORMANCE MONITORING THRESHOLD GROUP)
22.15 (PERFORMANCE MONITORING)
ALW:FAC-B

Software Release: 5E16(1) only
Command Group: TRKLN
Application: 5
Type: Input

1. PURPOSE

Request to allow reports of transmission facility performance monitoring (PM) threshold crossing alert (TCA) report output messages (refer to the REPT:FAC output message) for facilities terminated on a digital facilities interface (DFI) model 2 (DFI-2), an integrated digital carrier unit (IDCU), an optical interface unit (OIU), or a digital networking unit - synchronous optical network (SONET) (DNU-S) number. This message does not override alert inhibits specified using recent change/verify (RC/V) views 8.1, 20.23, 20.25, or 22.15. To determine a unit’s alert control status refer to the OP:FAC input message.

2. FORMAT

ALW:FAC,a;

3. EXPLANATION OF MESSAGE

a  = Unit. Valid value(s):
   DFAC=n-b-c-d[,e]
   DFI=n-b-c[,e]
   DLTU=n-b[,e]
   DNUS=n-i[,e]
   DNUSRT=n-i-h[,e]
   DS1SFAC=n-i-j-k-l-m-o[,e]
   EC1STE=n-i-j-k[,e]
   IDCU=n-f[,e]
   IDCURT=n-f-h[,e]
   IFAC=n-f-g[,e]
   SM=n
   VT1FAC=n-i-j-k-l-m-o[,e]
   OIU=n-p[,e]
   OC3=n-p-q-r[,e]
   STS1=n-p-q-r-s[,e]
   VT15=n-p-q-r-s-t-u[,e]
   DS1=n-p-q-r-s-t-u[,e]

b  = DLTU number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

c  = DFI number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

d  = Facility number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

e  = Type of alerts to allow. Valid value(s):
   ALL    = Both 15-minute and daily alerts (default).
   DAY    = Daily alerts.
**INT** = 15-minute interval alerts.

- **f** = IDCU number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
- **g** = IFAC number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
- **h** = TR303 RT number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
- **i** = DNU-S number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
- **j** = Data group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
- **k** = SONET termination equipment (STE) facility number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
- **l** = Synchronous transport signal (STS) facility number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
- **m** = Virtual tributary group (VTG) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
- **n** = SM number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
- **o** = Virtual tributary member (VTM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
- **p** = Optical Interface Unit (OIU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
- **q** = Protection Group (PG) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
- **r** = Optical Carrier - level 3 (OC3) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
- **s** = Synchronous Transport Signal - level 1 (STS1) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
- **t** = VT15 group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
- **u** = VT15 member number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

**4. SYSTEM RESPONSE**

- **PF** = Printout follows. The request has been accepted. Followed by the ALW:FAC output message.
NG  = No good. The input contained an illegal specification.

RL  = Retry later. The request has been denied, probably due to system load.

5. REFERENCES

Input Message(s):

INH:FAC
INIT:FAC
OP:FAC

Output Message(s):

ALW:FAC
INH:FAC
INIT:FAC
OP:FAC
REPT:FAC

Input Appendix(es):

APP:RANGES

Other Manual(s):
235-105-220  Corrective Maintenance

RC/V View(s):
8.1  OFFICE PARAMETERS (MISCELLANEOUS)
20.23  IDCU FACILITY EQUIPMENT
20.25  DNU-S PERFORMANCE MONITORING THRESHOLD GROUP
22.15  PERFORMANCE MONITORING
ALW:FAC-C

Software Release: 5E16(2) and later
Command Group: TRKLN
Application: 5
Type: Input

1. PURPOSE

Request to allow reports of transmission facility performance monitoring (PM) threshold crossing alert (TCA) report output messages (refer to the REPT:FAC output message) for facilities terminated on a digital facilities interface (DFI) model 2 (DFI-2), an integrated digital carrier unit (IDCU), an optical interface unit (OIU), digital networking unit - synchronous optical network (SONET) (DNU-S) number or session initiation protocol (SIP) protocol handler (PH) on a packet switch unit (PSU). This message does not override alert inhibits specified using RC/V Views 8.1 [OFFICE PARAMETERS (MISCELLANEOUS)], 20.23 (IDCU FACILITY EQUIPMENT), 20.25 (DNU-S PERFORMANCE MONITORING THRESHOLD GROUP), 20.32 (PERFORMANCE MONITORING THRESHOLD GROUP), or 22.15 (PERFORMANCE MONITORING). To determine a unit's alert control status refer to the OP:FAC input message.

2. FORMAT

ALW:FAC,a;

3. EXPLANATION OF MESSAGE

a = Unit. Valid value(s):

DFAC=n-b-c-d[,e]
DFI=n-b-c[,e]
DLTU=n-b[,e]
DNUS=n-i[,e]
DNUSRT=n-i-h[,e]
DS1=n-p-q-r-s-t-u[,e]
DS1SFAC=n-i-j-k-l-m-o[,e]
EC1STE=n-i-j-k[,e]
IDCU=n-f[,e]
IDCURT=n-f-h[,e]
IFAC=n-f-g[,e]
OC3=n-p-q-r[,e]
OC3C=n-p-q-v[,e]
OIU=n-p[,e]
PPPLK=n-p-q-v-w[,e]
PSU=n-x[,e]
PSUPH=n-x-y-z[,e]
SM=n
STS1=n-p-q-r-s[,e]
STS3C=n-p-q-v-w[,e]
VT15=n-p-q-r-s-t-u[,e]
VT1FAC=n-i-j-k-l-m-o[,e]

b = DLTU number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

c = DFI number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
d = Facility number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

e = Type of alerts to allow. Valid value(s):
   ALL = Both 15-minute and daily alerts (default).
   DAY = Daily alerts.
   INT = 15-minute interval alerts.

f = IDCU number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

g = IFAC number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

h = TR303 RT number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

i = DNU-S number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

j = Data group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

k = SONET termination equipment (STE) facility number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

l = Synchronous transport signal (STS) facility number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

m = Virtual tributary group (VTG) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

n = SM number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

o = Virtual tributary member (VTM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

p = OIU number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

q = Protection group (PG) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

r = Optical carrier - level 3 (OC3) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

s = Synchronous transport signal - level 1 (STS1) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

t = VT15 group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

u = VT15 member number. Refer to the APP:RANGES appendix in the Appendixes section of the
Input Messages manual.

v = Optical carrier - level 3 concatenated (OC3C) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

w = Synchronous transport signal - level 3 concatenated (STS3C) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

x = Packet switch unit (PSU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

y = PSU shelf (PSUSHLF) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

z = PSU relative protocol handler (PSURELPH). Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

PF = Printout follows. The request has been accepted. Followed by the ALW:FAC output message.

NG = No good. The input contained an illegal specification.

RL = Retry later. The request has been denied, probably due to system load.

5. REFERENCES

Input Message(s):

INH:FAC
INIT:FAC
OP:FAC

Output Message(s):

ALW:FAC
INH:FAC
INIT:FAC
OP:FAC
REPT:FAC

Input Appendix(es):

APP:RANGES

Other Manual(s):
235-105-220  Corrective Maintenance

RC/V View(s):
8.1  OFFICE PARAMETERS (MISCELLANEOUS)
20.12  STS-1 FACILITY PROVISIONING (DNU-S)
20.23 IDCU FACILITY EQUIPMENT (IFAC)
20.24 VT1.5 FACILITY PROVISIONING (DNU-S)
20.25 DNU-S PERFORMANCE MONITORING THRESHOLD GROUP (SM2000)
20.29 OIU SONET TERMINATION EQUIPMENT (SM2000)
20.30 HIGH-LEVEL VIRTUAL CONTAINER (OIU)
20.31 LOW-LEVEL VIRTUAL CONTAINER (OIU)
20.32 PERFORMANCE MONITORING THRESHOLD GROUP (OIU, SIP PSUPH)
22.15 PERFORMANCE MONITORING (DLTU)
33.16 SIP-T PROCESSOR GROUP
ALW:FSYS-ACCESS

Software Release: 5E14 and later
Command Group: FHADM
Application: 5,3B
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Requests that the access permissions of a specific file be changed. Permissions allow the owner, group, and others to read, write, and execute a file.

WARNING: Incorrect permission values can prevent the system from accessing needed files or executing input messages and processes.

2. FORMAT

ALW:FILESYS,ACCESS=a,FN="b";

3. EXPLANATION OF MESSAGE

a = A 3-digit number giving access permissions for owner, group and others, in that order. Valid value(s):
  1 = Execute (search in directory) only.
  2 = Write only.
  3 = Write and execute (search).
  4 = Read only.
  5 = Read and execute (search).
  6 = Read and write.
  7 = Read, write, and execute (search).

b = Full pathname of the file or directory.

4. SYSTEM RESPONSE

PF = Printout follows. Followed by the ALW:FSYS-ACCESS output message.

5. REFERENCES

Input Message(s):

ALW:FSYS-OWNER
OP:ST-LISTDIR

Output Message(s):

ALW:FSYS-ACCESS
OP:ST-LISTDIR
**ALW:FSYS-MOUNT**

**Software Release:** 5E14 and later  
**Command Group:** FHADM  
**Application:** 5,3B  
**Type:** Input

1. **PURPOSE**
Allows a removable file system to be mounted.

2. **FORMAT**

   ALW:FILESYS,MOUNT,FN="a",BSDIR="b"[,RO][,AUD];

3. **EXPLANATION OF MESSAGE**

   - **AUD** = File manager is to audit the file system prior to mounting it.  
   - **RO** = File system is to be mounted read only.  
   - **a** = Special device filename of the file system to be mounted. Refer to the ECD/SG manual.  
   - **b** = The base directory of the mounted file system, from which all file names in that file system must descend.

4. **SYSTEM RESPONSE**

   **PF** = Printout follows. Followed by the ALW:FSYS-MOUNT output message and a PRM output message.

5. **REFERENCES**

   **Input Message(s):**

   INH:FSYS-UMOUNT  
   OP:ST-FILESYS

   **Output Message(s):**

   ALW:FSYS-MOUNT  
   OP:ST-FILESYS

   **Other Manual(s):**

   Where 'x' is the release-specific version of the specified document.  
   235-600-30x ECD/SG  
   235-600-601 Processor Recovery Messages  
   235-105-220 Corrective Maintenance

   MCC Display Page(s):
ALW:FSYS-OWNER

Software Release: 5E14 and later
Command Group: FHADM
Application: 5,3B
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Requests that the owner and group of a specific file be changed.

WARNING: Incorrect owner specifications can prevent the system from accessing needed files.

2. FORMAT

ALW:FILESYS,OWNER="a", FN="b";

3. EXPLANATION OF MESSAGE

a  = User ID of the new owner of the file.
b  = Pathname of the file.

4. SYSTEM RESPONSE

PF  = Printout follows. Followed by the ALW:FSYS-OWNER output message.

5. REFERENCES

Input Message(s):

ALW:FSYS-ACCESS

Output Message(s):

ALW:FSYS-OWNER

Other Manual(s):
235-105-220  Corrective Maintenance

MCC Display Page(s):

CRAFT FM 01)
ALW:GKCCR
Software Release: 5E14 and later
Command Group: ODD
Application: 5
Type: Input

1. PURPOSE
Requests that automatic periodic execution of the generated key collection and compression routine (GKCCR) be allowed in specified processors. Either specific processors can be specified or no processors can be specified. If no processors are specified, then the GKCCR will be allowed in every processor.

2. FORMAT

ALW:GKCCR[,SM=a[&b]][,CMP=c][,AM];

3. EXPLANATION OF MESSAGE

NOTE: Refer to the Acronym section of the Input Messages manual for the full expansion of acronyms shown in the format.

a = Switching module (SM) number or the lower limit of a range of SM numbers.

b = The upper limit of a range of SM numbers.

c = Communications module processor (CMP) number.

4. SYSTEM RESPONSE

NG = No good. The input request is invalid. May also include:
- NO VALID PROCESSOR SPECIFIED = Specific processor(s) were specified in the input request line, but no requested processor was operational. If specific processors are to be requested, at least one requested processor must be operational.

OK = Good. Request was accepted.

5. REFERENCES

Input Message(s):

EXC:GKCCR
INH:GKCCR
ALW:GKCCR

Output Message(s):

EXC:GKCCR
REPT:GKCCR

Other Manual(s):
235-105-220 Corrective Maintenance
Routine Operations and Maintenance
**ALW:HDW-AIU**

**Software Release:** 5E14 and later  
**Command Group:** SM  
**Application:** 5  
**Type:** Input

1. **PURPOSE**

Allows hardware checks on an access interface unit (AIU).

2. **FORMAT**

ALW:HDWCHK, AIU=a-b;

3. **EXPLANATION OF MESSAGE**

a  = Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

b  = AIU number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. **SYSTEM RESPONSE**

NG  = No good. The message form is valid, but the request conflicts with the current status.

PF  = Printout follows. Followed by the ALW:HDW-AIU output message.

RL  = Retry later. The request cannot be executed now due to unavailable system resources.

5. **REFERENCES**

Input Message(s):

INH:HDW–AIU

Output Message(s):

ALW:HDW–AIU

Input Appendix(es):

APP:RANGES

MCC Display Page(s):

1320,y,x (AIU SUMMARY)
1. PURPOSE

Allows maintenance interrupts to occur on an inter-remote switching module (RSM) communication link digital facilities interface (CDFI) circuit. The system enables the interrupts if internal checks allow the transition.

2. FORMAT

ALW:HDWCHK,CDFI=a-b-c;

3. EXPLANATION OF MESSAGE

a = Switching module (SM) number.
b = Digital line and trunk unit (DLTU) number.
c = CDFI number.

4. SYSTEM RESPONSE

NG = No good. The message syntax is valid, but the request conflicts with current system or equipment status. May also include:
   - NOT STARTED UNIT IN GROWTH STATE
   - SM DOES NOT EXIST
   - SM UNEQUIPPED
   - UNIT DOES NOT EXIST

PF = Printout follows. The ALW:HDW-CDFI output message follows.

RL = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

Input Message(s):

INH:HDW-CDFI

Output Message(s):

ALW:HDW-CDFI
ALW:HDW-CDI

Software Release: 5E14 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Requests that hardware error checks be allowed to be performed on the specified control data interface (CDI).

2. FORMAT

ALW:HDWCHK,CDI=a-b-c;

3. EXPLANATION OF MESSAGE

a = Switching module number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

b = Trunk unit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

c = Service group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

PF = Printout follows. The ALW:HDW-CDI output message follows.

5. REFERENCES

Output Message(s):

ALW:HDW-CDI

Input Appendix(es):

APP:RANGES
ALW:HDW-CLNK

Software Release: 5E14 and later
Command Group: CM
Application: 5
Type: Input

1. PURPOSE

Allows level 2 and level 3 hardware checks errors to be performed on one or all communication links (CLNKs).
(Refer to the Corrective Maintenance Manual for an explanation of level 2 and level 3 errors.)

2. FORMAT

ALW:HDWCHK,CLNK{=a-b-c-d|,ALL};

3. EXPLANATION OF MESSAGE

ALL = Allow errors on all communication links.
a = Switching module (SM) number.
b = Office network and timing complex (ONTC) side.
c = Module message processor (MMP) type. Valid value(s):
   0 = Alpha.
   1 = Beta.
d = Message switch (MSGS) side.

4. SYSTEM RESPONSE

NG = No good. May also include:
   - ALL NOT VALID WITH A SINGLE UNIT = A single CLNK and ALL may not be specified together.
   - UNIT UNEQUIPPED = The specified single CLNK is unequipped.

PF = Printout follows. A printout will follow when the requested action is completed.

5. REFERENCES

Input Message(s):
INH:HDW-CLNK
OP:HDWCHK

Output Message(s):
ALW:HDW-CLNK

Other Manual(s):
Corrective Maintenance
ALW:HDW-CM

Software Release: 5E14 and later
Command Group: CM
Application: 5
Type: Input

1. PURPOSE

Allows hardware error checks to be performed on all communication module (CM) units. This includes the message switch control unit (MSCU) (for communication module model 2; hardware only), foundation peripheral controller (FPC), pump peripheral controller (PPC), module message processor (MMP), office network and timing complex (ONTC), and communication links (CLNKs).

2. FORMAT

ALW: HDWCHK, CM;

3. EXPLANATION OF MESSAGE

No variables.

4. SYSTEM RESPONSE

IP = In progress. May also include:
- PENDING EXIT FROM MANUAL CM ISOLATION = The request cannot be executed now because the communication module (CM) is isolated from the administrative module (AM) by a manual request. The request will be acted upon once AM communication with the CM is re-established.

NG = No good. The request has been denied. The message syntax is valid, but the request could not be processed. Refer to the APP:CM-IM-REASON appendix in the Appendixes section of the Input Messages manual for a list of possible reasons for denying the request.

PF = Printout follows. The request has been accepted and the ALW: HDW-CM output message follows.

RL = Retry later. The request cannot be executed now because the communication module (CM) deferred maintenance queue (DMQ) is full; try again later.

5. REFERENCES

Input Message(s):
CLR: ISOL-CM
INH: HDW-CM
OP: DMQ-CM-SM

Output Message(s):
ALW: HDW-CM
INH: HDW-CM
OP: DMQ-CM
Input Appendix(es):

APP: CM-IM-REASON
**1. PURPOSE**

Requests that hardware error checks be allowed to be performed on the specified communication module processor (CMP).

**2. FORMAT**

`ALW:HDWCHK, {CMP=a-b|CMP=b, {PRIM|MATE}};`

**3. EXPLANATION OF MESSAGE**

- **MATE** = Mate, or non-active, CMP member.
- **PRIM** = Primary, or active, CMP member.
- **a** = Message switch side number.
- **b** = CMP number.

**4. SYSTEM RESPONSE**

- **NG** = No good. The request has been denied. The message syntax is valid, but the request could not be processed. Refer to the APP:CM-IM-REASON appendix in the Appendixes section of the Input Messages manual for a list of possible reasons for denying the request.
- **PF** = Printout follows. The ALW:HDW-CMP output message follows.
- **RL** = Retry later. The request cannot be executed now due to unavailable system resources.

**5. REFERENCES**

Input Message(s):

- **INH:HDW-CMP**
- **OP:HDWCHK**

Output Message(s):

- **ALW:HDW-CMP**
- **INH:HDW-CMP**
- **OP:HDWCHK**

Input Appendix(es):

- **APP:CM-IM-REASON**
Other Manual(s):

235-105-110  System Maintenance Requirements and Tools

235-105-250  System Recovery Procedures

MCC Display Page(s):

1241/51 (MSGS COMMUNITIES 0-1, 8-9)
ALW:HDW-DCLU

Software Release: 5E14 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Allows hardware error checks to be performed on the specified SLC® 96 digital carrier line unit (DCLU).

2. FORMAT

ALW:HDWCHK,DCLU=a-b-c;

3. EXPLANATION OF MESSAGE

a = Switching module (SM) number.
b = DCLU number.
c = Service group number.

4. SYSTEM RESPONSE

Refer to the System Responses Table in the Input Messages User Guidelines.

5. REFERENCES

Output Message(s):

ALW:HDW-DCLU
1. PURPOSE

Allows hardware error checks to be performed on the specified directly connected test unit common board (DCTUCOM).

2. FORMAT

   ALW:HDWCHK:DCTUCOM=a-b;

3. EXPLANATION OF MESSAGE

   a = Switching module (SM) number.
   b = Directly connected test unit number.

4. SYSTEM RESPONSE

Refer to the System Responses Table in the Input Messages User Guidelines.

5. REFERENCES
ALW:HDW-DFI

Software Release: 5E14 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Allows hardware error checks to be performed on the specified digital facility interface (DFI).

2. FORMAT

ALW:HDWCHK,DFI=a-b-c;

3. EXPLANATION OF MESSAGE

a = Switching module number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

b = Digital line/trunk unit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

c = DFI number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

Refer to the System Responses Table in the Input Messages User Guidelines.

5. REFERENCES

Input Appendix(es):

APP:RANGES
ALW:HDW-DFIH

Software Release: 5E14 and later  
Command Group: SM  
Application: 5  
Type: Input

1. PURPOSE

Allows hardware checks to occur on a remote integrated services line unit (RISLU) host/remote digital facility interface circuit pair (DFIH). The system enables the hardware checks if internal status allows the transition.

2. FORMAT

ALW:HDWCHK,DFIH=a-b-c;

3. EXPLANATION OF MESSAGE

a = Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

b = RISLU digital line and trunk unit (DLTU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

c = DFIH number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

NG = No good. May also include:

CONFLICT WITH UNIT STATE
SM DOES NOT EXIST
SM UNEQUIPPED
UNIT DOES NOT EXIST

PF = Printout follows. The ALW:HDW-DFIH output message follows.

RL = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

Input Message(s):

INH:HDW-DFIH

Output Message(s):

ALW:HDW-DFIH

Input Appendix(es):
ALW:HDW-DNUSCC

- Software Release: 5E14 and later
- Command Group: SM
- Application: 5
- Type: Input

1. PURPOSE

Requests that hardware checks be allowed on a digital networking unit - synchronous optical network (DNU-S) common controller (DNUSCC).

2. FORMAT

ALW:HDWCHK,DNUSCC=a-b-c;

3. EXPLANATION OF MESSAGE

- **a**: Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
- **b**: DNU-S number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
- **c**: Common controller number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

- **NG**: No good. The message form is valid, but the request conflicts with the current status.
- **PF**: Printout follows. The ALW:HDW-DNUSCC output message follows.
- **RL**: Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

Input Message(s):

- INH:HDW-DNUSCC

Output Message(s):

- ALW:HDW-DNUSCC

Input Appendix(es):

- APP:RANGES

MCC Display Page(s):

- 1510 (DNUS STATUS)
ALW:HDW-DNUSCD
Software Release: 5E14 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Requests that hardware checks be allowed on a digital networking unit - synchronous optical network (DNU-S) common data (DNUSCD).

2. FORMAT

ALW:HDWCHK,DNUSCD=a-b-c-d;

3. EXPLANATION OF MESSAGE

a = Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

b = DNU-S number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

c = Data group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

d = Common data number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

NG = No good. The message form is valid, but the request conflicts with the current status.

PF = Printout follows. The ALW:HDW-DNUSCD output message follows.

RL = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

Input Message(s):

INH:HDW-DNUSCD

Output Message(s):

ALW:HDW-DNUSCD

Input Appendix(es):

APP:RANGES
MCC Display Page(s):

1510 (DNUS STATUS)
ALW:HDW-FPC
Software Release: 5E14 and later
Command Group: CM
Application: 5
Type: Input

1. PURPOSE
Requests that hardware error checks be allowed to be performed on the specified foundation peripheral controller (FPC).

2. FORMAT
ALW:HDWCHK,FPC=a;

3. EXPLANATION OF MESSAGE
a = FPC number.

4. SYSTEM RESPONSE
NG = No good. The message was invalid.
PF = Printout follows. Followed by the ALW:HDW-FPC output message.

5. REFERENCES
Input Message(s):
INH:HDW-FPC
OP:CFGSTAT

Output Message(s):
ALW:HDW-FPC
OP:CFGSTAT
1. PURPOSE

Allows maintenance hardware checks in a global digital services function (GDSF) circuit to occur. The system enables the indicated interrupt if internal checks allow the transition.

2. FORMAT

ALW:HDWCHK,GDSF=a-b;

3. EXPLANATION OF MESSAGE

a = Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

b = GDSF number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

NG = No good. Message syntax is valid, but the request conflicts with current equipment status. This includes a text explanation.

PF = Printout follows. The request has been accepted. The ALW:HDW-GDSF output message follows.

RL = Retry later. This includes a text explanation for why the user should retry later.

5. REFERENCES

Input Message(s):

INH:HDW-GDSF

Output Message(s):

ALW:HDW-GDSF
INH:HDW-GDSF
ALW:HDW-GDSUCOM

Software Release: 5E14 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Allows hardware error checks to be performed on the specified global digital service unit (DSU) common (GDSUCOM) board.

2. FORMAT

ALW:HDWCHK,GDSUCOM=a-b-c;

3. EXPLANATION OF MESSAGE

a = Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

b = Digital service unit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

c = Service group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

Refer to the System Responses Table in the Input Messages User Guidelines.

5. REFERENCES

Input Appendix(es):

APP:RANGES
ALW:HDW-GDXACC

**Software Release:** 5E14 and later  
**Command Group:** SM  
**Application:** 5  
**Type:** Input

1. **PURPOSE**

Allows hardware error checks to be performed on the specified gated diode crosspoint access (GDXACC) circuit.

2. **FORMAT**

ALW:HDWCHK,GDXACC=a-b-c;

3. **EXPLANATION OF MESSAGE**

a  
= Switching module number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

b  
= Line unit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

c  
= Service group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. **SYSTEM RESPONSE**

Refer to the System Responses Table in the Input Messages User Guidelines.

5. **REFERENCES**

Input Appendix(es):

APP:RANGES
ALW:HDW-GDXCON
Software Release: 5E14 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE
Allows hardware error checks to be performed on the specified gated diode crosspoint control (GDXCON).

2. FORMAT
ALW:HDWCHK,GDXCON=a-b-c;

3. EXPLANATION OF MESSAGE

a = Switching module number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

b = Line unit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

c = Service group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE
Refer to the System Responses Table in the Input Messages User Guidelines.

5. REFERENCES
Input Appendix(es):

APP:RANGES
ALW:HDW-GRID

Software Release: 5E14 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Allows hardware error checks to be performed on the specified gated diode crosspoint grid (GRID).

2. FORMAT

ALW:HDWCHK,GRID=a-b-c;

3. EXPLANATION OF MESSAGE

a = Switching module number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

b = Line unit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

c = GRID number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

Refer to the System Responses Table in the Input Messages User Guidelines.

5. REFERENCES

Input Appendix(es):

APP:RANGES
**ALW:HDW-GRIDBD**

Software Release: 5E14 and later  
Command Group: SM  
Application: 5  
Type: Input

1. PURPOSE

Allows hardware error checks to be performed on the specified line unit model 2; (LU2) or line unit model 3; (LU3) grid board.

2. FORMAT

\[ \text{ALW:HDWCHK,GRIDBD=\text{a-b-c-d};} \]

3. EXPLANATION OF MESSAGE

| a | = Switching module number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual. |
| b | = Line unit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual. |
| c | = Grid number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual. |
| d | = Board number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual. |

4. SYSTEM RESPONSE

| NG | = No good. The request has been denied. The message form is valid, but the request conflicts with current status. |
| PF | = Printout follows. Followed by the ALW:HDW-GRIDBD output message with the completion status. |
| RL | = Retry later. The request cannot be executed now due to unavailable system resources. |

5. REFERENCES

Output Message(s):

\[ \text{ALW:HDW-GRIDBD} \]
\[ \text{INH:HDW-GRIDBD} \]

Input Appendix(es):

\[ \text{APP:RANGES} \]
ALW:HDW-HDFI

Software Release: 5E14 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Allows hardware error checks to be performed on the specified host switching module (HSM) digital facilities interface (HDFI) circuit.

2. FORMAT

ALW:HDWCHK,HDFI=a-b-c;

3. EXPLANATION OF MESSAGE

a = Switching module (SM) number.
b = Digital line and trunk unit (DLTU) number.
c = HDFI number.

4. SYSTEM RESPONSE

NG = No good. Request denied because of a conflict with current status.
PF = Printout follows. Followed by the ALW:HDW-HDFI output message.

5. REFERENCES

Input Message(s):

INH:HDW-HDFI

Output Message(s):

ALW:HDW-HDFI
1. PURPOSE
Requests that hardware error checks be allowed to be performed on the specified integrated digital carrier unit (IDCU) service group circuit.

2. FORMAT
ALW:HDWCHK,IDCU=a-b-c;

3. EXPLANATION OF MESSAGE
a = Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

b = IDCU number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

c = IDCU service group. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE
PF = Printout follows. The ALW:HDW-IDCU output message follows.

NG = No good. The request has been denied. The message is valid but the request conflicts with current status.

RL = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES
Input Message(s):
INH:HDW-IDCU

Output Message(s):
ALW:HDW-IDCU

Input Appendix(es):
APP:RANGES

Other Manual(s):
235-105-220 Corrective Maintenance
235-105-110  System Maintenance Requirements and Tools

MCC Display Page(s):

186x (IDCU CIRCUIT)
ALW:HDW-IDCUELI
Software Release: 5E14 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE
Requests that hardware error checks be allowed to be performed on the specified integrated digital carrier unit (IDCU) electrical line interface (ELI) circuit.

2. FORMAT
ALW:HDWCHK,IDCUELI=a-b-c;

3. EXPLANATION OF MESSAGE
   a  = Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
   b  = IDCU number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
   c  = ELI number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE
   PF  = Printout follows. The ALW:HDW-IDCUELI output message follows.
   NG  = No good. The request has been denied. The message is valid but the request conflicts with current status.
   RL  = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES
Input Message(s):
   INH:HDW-IDCUELI
Output Message(s):
   ALW:HDW-IDCUELI
Input Appendix(es):
   APP:RANGES
Other Manual(s):
235-105-220   Corrective Maintenance
235-105-110  System Maintenance Requirements and Tools

MCC Display Page(s):

186x (IDCU CIRCUIT)
ALW:HDW-IFAC

**Software Release:** 5E14 and later  
**Command Group:** SM  
**Application:** 5  
**Type:** Input

1. PURPOSE

Requests that hardware error checks be allowed to be performed on the specified integrated digital carrier unit (IDCU) facility (IFAC) circuit. This input message will only work on IFACs associated with the A and P facilities for the TR008 remote terminal (RT) and on the protection line for the TR303 RT.

2. FORMAT

ALW:HDWCHK,IFAC=a-b-c;

3. EXPLANATION OF MESSAGE

a  
= Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

b  
= IDCU number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

c  
= IFAC number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

**PF**  
= Printout follows. The ALW:HDW-IFAC output message follows.

**NG**  
= No good. The request has been denied. The message is valid but the request conflicts with current status.

**RL**  
= Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

Input Message(s):

INH:HDW-IFAC

Output Message(s):

ALW:HDW-IFAC

Input Appendix(es):

APP:RANGES

Other Manual(s):
235-105-220 Corrective Maintenance
235-105-110 System Maintenance Requirements and Tools

MCC Display Page(s):

187x (IFAC CIRCUIT)
188xyy (IDCU REMOTE TERMINAL)
ALW:HDW-ISLU

Software Release: 5E14 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Allows hardware checks on an integrated services line unit (ISLU) common controller (CC) or common data (CD).

2. FORMAT

ALW:HDWCHK,ISLU{a}=b-c-d;

3. EXPLANATION OF MESSAGE

a = Circuit name. Valid value(s):
   CC = Common controller.
   CD = Common data.

b = Switching module (SM) number.

c = Integrated services line unit number.

d = Valid value(s):

<table>
<thead>
<tr>
<th>'a' =</th>
<th>'d' =</th>
</tr>
</thead>
<tbody>
<tr>
<td>CC</td>
<td>Common controller number.</td>
</tr>
<tr>
<td>CD</td>
<td>Common data number.</td>
</tr>
</tbody>
</table>

4. SYSTEM RESPONSE

NG = No good. The message form is valid, but the request conflicts with the current status.

PF = Printout follows. The ALW:HDW-ISLU output message follows.

RL = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

Input Message(s):
   INH:HDW-ISLU

Output Message(s):
   ALW:HDW-ISLU

MCC Display Page(s):
   170x (ISLU Network)
**ALW:HDW-ISLUCC**

- **Software Release:** 5E14 and later
- **Command Group:** SM
- **Application:** 5
- **Type:** Input

1. **PURPOSE**

Requests that hardware checks be allowed on an integrated services line unit common controller (ISLUCC).

2. **FORMAT**

   `ALW:HDWCHK,ISLUCC(a,b,c)`!

3. **EXPLANATION OF MESSAGE**

   a = Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

   b = Integrated services line unit (ISLU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

   c = Common controller number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. **SYSTEM RESPONSE**

   - **NG** = No good. The message form is valid, but the request conflicts with the current status.
   - **PF** = Printout follows. The ALW:HDW-ISLUCC output message follows.
   - **RL** = Retry later. The request cannot be executed now due to unavailable system resources.

5. **REFERENCES**

   - **Input Message(s):**
     
     INH:HDW-ISLUCC

   - **Output Message(s):**
     
     ALW:HDW-ISLUCC

   - **Input Appendix(es):**
     
     APP:RANGES

   - **MCC Display Page(s):**
     
     170x (ISLU NETWORK)
     170xy (ISLU LINE GROUP)
ALW:HDW-ISLUCD
Software Release: 5E14 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE
Requests that hardware checks be allowed on an integrated services line unit common data (ISLUCD).

2. FORMAT
ALW:HDWCHK,ISLUCD=a-b-c;

3. EXPLANATION OF MESSAGE
a = Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
b = Integrated services line unit (ISLU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
c = Common data number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE
NG = No good. The message form is valid, but the request conflicts with the current status.
PF = Printout follows. The ALW:HDW-ISLUCD output message follows.
RL = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES
Output Message(s):
ALW:HDW-ISLUCD

Input Appendix(es):
APP:RANGES

MCC Display Page(s):
170x (ISLU NETWORK)
170xy (ISLU LINE GROUP)
ALW:HDW-ISLUHLSC

Software Release: 5E14 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Allows listing of ring trip interrupts in an integrated services line unit (ISLU) high level service circuit (HLSC).

2. FORMAT

ALW:HDWCHK, ISLUHLSC=a-b-c-d;

3. EXPLANATION OF MESSAGE

a = Switching module number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

b = Line unit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

c = Service group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

d = HLSC number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

NG = No good. The request has been denied. The message is valid but the request conflicts with current status.

PF = Printout follows. The ALW:HDW-ISLUHLSC output message follows.

RL = Retry later. The request cannot be executed due to unavailable system resources.

5. REFERENCES

Input Message(s):

INH:HDW-ISLUHLSC

Output Message(s):

ALW:HDW-ISLUHLSC

Input Appendix(es):

APP: RANGES
ALW:HDW-ISLUMAN

Software Release: 5E14 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE
Allows listing of interrupts in an integrated services line unit (ISLU) metallic access network (MAN).

2. FORMAT
ALW:HDWCHK,ISLUMAN=a-b-c-d;

3. EXPLANATION OF MESSAGE
   a = Switching module number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
   b = Line unit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
   c = Service group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
   d = MAN number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE
   NG = No good. The request has been denied. The message is valid but the request conflicts with current status.
   PF = Printout follows. The ALW:HDW-ISLUMAN output message follows.
   RL = Retry later. The request cannot be executed due to unavailable system resources.

5. REFERENCES
Input Message(s):
   INH:HDW-ISLUMAN

Output Message(s):
   ALW:HDW-ISLUMAN

Input Appendix(es):
   APP:RANGES
ALW:HDW-ISLURG

Software Release: 5E14 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Allows listing of error sources in an integrated services line unit (ISLU) ringing generator (RG).

2. FORMAT

ALW:HDWCHK,ISLURG=a-b-c;

3. EXPLANATION OF MESSAGE

a  = Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

b  = Line unit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

c  = Service group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

NG  = No good. The request has been denied. The message is valid but the request conflicts with current status.

PF  = Printout follows. The ALW:HDW-ISLURG output message follows.

RL  = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

Input Message(s):
INH:HDW-ISLURG

Output Message(s):
ALW:HDW-ISLURG

Input Appendix(es):
APP:RANGES
ALW:HDW-ISTF

Software Release: 5E14 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Allows hardware checks in an integrated services test function (ISTF) unit to occur. The system enables the indicated interrupt if internal checks allow the transition.

2. FORMAT

ALW:HDWCHK,ISTF=a-b;

3. EXPLANATION OF MESSAGE

a = Switching module (SM) number.

b = ISTF unit number.

4. SYSTEM RESPONSE

NG = No good. The request has been denied because it conflicts with current equipment status. May also include:
- SM DOES NOT EXIST = The requested SM does not exist in the system.
- SM UNEQUIPPED = The SM specified in the request is unequipped.
- UNIT DOES NOT EXIST = The request unit does not exist in the system.

PF = Printout follows. The request has been accepted. Followed by the ALW:HDW-ISTF output message.

RL = Retry later. The request cannot be executed now due to unavailable system resources. The message may be entered again later.

5. REFERENCES

Input Message(s):

INH:HDW-ISTF

Output Message(s):

ALW:HDW-ISTF

MCC Display Page(s):

ISTF Page)
ALW:HDW-IWGLI

Software Release: 5E15 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE
Allows hardware checks on an inter-working gateway link interface (IWGLI).

2. FORMAT
ALW:HDWCHK,IWGLI=a-b-c-d;

3. EXPLANATION OF MESSAGE
a = Switch module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
b = Inter-working gateway (IWG) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
c = Data group (DG) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
d = Inter-working gateway link interface (IWGLI) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE
NG = No good. The message form is valid, but the request conflicts with the current status.
PF = Printout follows. Followed by the ALW:HDW-IWGLI output message.
RL = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES
Input Message(s):
INH:HDW-IWGLI

Output Message(s):
ALW:HDW-IWGLI

Input Appendix(es):
APP:RANGES
MCC Display Page(s):

1340,y (IWG)

Other Manual(s):
235-105-110  System Maintenance Requirements and Tools
235-105-220  Corrective Maintenance
ALW:HDW-LDSF

Software Release: 5E14 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Allows maintenance hardware checks in a local digital service function (LDSF) circuit to occur. The system enables the indicated interrupt if internal checks allow the transition.

2. FORMAT

ALW:HDWCHK,LDSF=a-b;

3. EXPLANATION OF MESSAGE

a = Switching module (SM) number.
b = LDSF number.

4. SYSTEM RESPONSE

NG = No good. Message syntax is valid, but the request conflicts with current equipment status. This includes a text explanation.

PF = Printout follows. The request has been accepted. Followed by the ALW:HDW-LDSF output message.

RL = Retry later. This includes a text explanation for why the user should retry later.

5. REFERENCES

Input Message(s):

INH:HDW-LDSF

Output Message(s):

ALW:HDW-LDSF
INH:HDW-LDSF
ALW:HDW-LDSU

Software Release: 5E14 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Allows maintenance hardware checks in a local digital service unit - model 2 (LDSU2) board to occur. The system enables the indicated interrupt if internal checks allow the transition.

2. FORMAT

ALW:HDWCHK,LDSU=a-b-c;

3. EXPLANATION OF MESSAGE

a = Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

b = Local digital service unit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

c = Service group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

NG = No good. Message syntax is valid, but the request conflicts with current equipment status. This includes a text explanation.

PF = Printout follows. The request has been accepted. The ALW:HDW-LDSU output message follows.

RL = Retry later. This includes a text explanation for why the user should retry later.

5. REFERENCES

Output Message(s):

ALW:HDW-LDSU

Input Appendix(es):

APP: RANGES
ALW:HDW-LDSUCOM

Software Release: 5E14 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Allows hardware error checks to be performed on the specified local digital service unit common (LDSUCOM) board.

2. FORMAT

ALW:HDWCHK,LDSUCOM=a-b-c;

3. EXPLANATION OF MESSAGE

a = Switching module number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

b = Local digital service unit (DSU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

c = Service group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

Refer to the System Responses Table in the Input Messages User Guidelines.

5. REFERENCES

Input Appendix(es):

APP:RANGES
ALW:HDW-LUCHAN

Software Release: 5E14 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Allows hardware error checks to be performed on the specified line unit channel (LUCHAN).

2. FORMAT

ALW:HDWCHK,LUCHAN=a-b-c-d-e;

3. EXPLANATION OF MESSAGE

a = Switching module number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
b = Line unit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
c = Service group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
d = Channel board number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
e = Channel number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

Refer to the System Responses Table in the Input Messages User Guidelines.

5. REFERENCES

Input Appendix(es):

APP : RANGES
ALW:HDW-LUCOMC
- **Software Release**: 5E14 and later
- **Command Group**: SM
- **Application**: 5
- **Type**: Input

1. **PURPOSE**

Allows hardware error checks to be performed on the specified line unit common control (LUOMC).

2. **FORMAT**

```
ALW:HDWCHK,LUCOMC=a-b-c;
```

3. **EXPLANATION OF MESSAGE**

- **a** = Switching module number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
- **b** = Line unit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
- **c** = Service group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. **SYSTEM RESPONSE**

Refer to the System Responses Table in the Input Messages User Guidelines.

5. **REFERENCES**

Input Appendix(es):

- APP:RANGES
ALW:HDW-LUHLSC

Software Release: 5E14 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Allows hardware error checks to be performed on the specified line unit high level service circuit (LUHLSC).

2. FORMAT

ALW:HDWCHK,LUHLSC=a-b-c-d;

3. EXPLANATION OF MESSAGE

a  = Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

b  = Line unit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

c  = Service group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

d  = High level service circuit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

Refer to the System Responses Table in the Input Messages User Guidelines.

5. REFERENCES

Input Appendix(es):

APP:RANGES
1. PURPOSE

Requests that a hardware check (HDWCHK) be allowed in a module controller/time-slot interchange unit (MCTSI). The system enables the indicated HDWCHK if internal checks allow the transition.

2. FORMAT

ALW:HDWCHK,MCTSI=a-b,c;

3. EXPLANATION OF MESSAGE

a = Switching module (SM)/SM-2000 number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

b = Module controller number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

c = Keyword that specifies inhibit bit name. Valid value(s):

NOTE: If the keyword is invalid for the specified SM/SM-2000, the request will be denied with the message STOPPED REQUEST NOT ALLOWED.

ALL = All valid module controller maintenance errors.
AFFCI = Active flip-flop cleared interrupt. Valid for SMs with the MCTU3 (module controller/time slot interchange unit 3) and for SM-2000s.
ARPV = Arbitration protocol violation error. Valid for SM-2000 only.
CACHE = Cache errors. Allowing CACHE on SM-2000s with cache allows the interrupts source while on non-SM-2000s with caches it enables the cache area (the normal mode of operation) as well, which speeds up the operation of the processor. This option is only valid for SMs with the MCTU2 (module controller/time slot interchange unit 2), the extended memory addressing (EMA) 20 or SM-2000s equipped with a CORE60 processor pack. If this error has been inhibited, allowing it will improve processor performance.
CADPR = Memory address mismatch error. Valid for SM-2000 only.
CBERR = Correctable bit error. If this error has been inhibited, allowing it will improve processor performance. Inhibiting this has no performance impact on SM-2000 or MCTU3.
CI0IN = Control interface 0 interrupt.
CI1IN = Control interface 1 interrupt.
CPINT = Enhanced central processor intervention interrupt.
DCODE = Decode error. Valid for SM-2000 only.
DL0PE = Dual link interface (DLI) 0 parity error. Not valid for SM-2000.
DLI0I = Data link 0 interrupt. Not valid for SM-2000.
DLI1I = Data link 1 interrupt. Not valid for SM-2000.
IAC0 = DLI0 illegal access error. Not valid for SM-2000.
IAC1 = DLI1 illegal access error. Not valid for SM-2000.
LPVER = Bus lock violation. Valid for SM-2000 only.
MADPE = Address parity error.
MCINT = Resets in the mate controller.
MH0IN = Message handler 0 interrupt. Valid for SM-2000 only.
MH1IN = Message handler 1 interrupt. Valid for SM-2000 only.
MH2IN = Message handler 2 interrupt. Valid for SM-2000 only.
MIOIO = I/O invalid operation error.
MH1IN = Message handler 0 interrupt. Valid for SM-2000 only.
MH0IN = Message handler 0 interrupt. Valid for SM-2000 only.
MIOT = I/O timer time out error.
MIOUE = I/O unlock error.
MPRIN = Maintenance interrupts in the mate MCTSI.
MRDYT = Ready time out.
MRSPERR = Multiple response error. Valid for MCTU2 and SM-2000 only.
MRWPE = Read or write parity error.
MWPER = Write protect error.
NCBERR = Non-correctable bit error. Valid for SM-2000 only.
PIINT = Packet interface (PI) interrupt.
PUMPHW = Pump hardware errors. Valid for MCTU2, MCTU3, and SM-2000 only.
REFE = Dynamic RAM refresh fail error. Valid for SM-2000 only.
SSYNC = Scanned I/O sync error. Valid for SM-2000 only.
TSIIN = Time-slot interchange (TSI) interrupt. For SM-2000, this will allow interrupts from network link interfaces (NLIs) if the NLIs are not inhibited by an INH:HDWCHK-ONTC request.
TSI4IN = TSI model four interrupt. Allowing this bit will not affect the inhibits for NLIs. Use this if you want to inhibit only TSI interrupts. Valid for SM-2000 only.

4. SYSTEM RESPONSE

PF = Printout follows. Followed by the ALW:HDW-MCTSI output message.
RL = Retry later. The message cannot be processed, so try the message again later. This response will be output if the AM cannot communicate with the requested SM/SM-2000.

5. REFERENCES

Input Message(s):

INH:HDW-MCTSI
OP:OFFNORM-SM
Output Message(s):

ALW : HDW - MCTSI
OP : OFFNORM - SM

Input Appendix(es):

APP : RANGES

Other Manual(s):
235-105-250  System Recovery
1. PURPOSE

Requests that a hardware check (HDWCHK) be allowed in a module controller/time-slot interchange unit (MCTSI). The system enables the indicated HDWCHK if internal checks allow the transition.

2. FORMAT

ALW:HDWCHK,MCTSI=a-b,c;

3. EXPLANATION OF MESSAGE

a = Switching module (SM)/SM-2000 number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

b = Module controller number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

c = Keyword that specifies inhibit bit name. Valid value(s):

Note: If the keyword is invalid for the specified SM/SM-2000, the request will be denied with the message STOPPED REQUEST NOT ALLOWED.

ALL = All valid module controller maintenance errors.

AFFCI = Active flip-flop cleared interrupt. Valid for SMs with the MCTU3 (module controller/time slot interchange unit 3) and for SM-2000s.

ARPV = Arbitration protocol violation error. Valid for SM-2000 only.


CACHE = Cache errors. Allowing CACHE on SM-2000s with cache allows the interrupts source while on non-SM-2000s with caches it enables the cache area (the normal mode of operation) as well, which speeds up the operation of the processor. This option is only valid for SMs with the MCTU2 (module controller/time slot interchange unit 2), the extended memory addressing (EMA) 20 or SM-2000s equipped with a CORE60 processor pack. If this error has been inhibited, allowing it will improve processor performance.

CADPR = Memory address mismatch error. Valid for SM-2000 only.

CBERR = Correctable bit error. If this error has been inhibited, allowing it will improve processor performance. Inhibiting this has no performance impact on SM-2000 or MCTU3.

CI0IN and CI00IN = Control interface (CI) 0 interrupt.

CI1IN and CI01IN = CI 1 interrupt.

CI2IN and CI02IN = CI 2 interrupt. Valid for SM-2000 only.

CI3IN and CI03IN = CI 3 interrupt. Valid for SM-2000 only.

CIxyIN = CI interrupt in an electrical extended control and data unit (XCDU) or optical extended control and data unit (OXU) shelf where "x" is 0 for the local CI's and 1 - 8 for XCDU/OXU number and "y" is the CI number which is 0 - 3 for local and 0 - 2 for XCDU/OXU. Valid for SM-2000 only.

CPINT = Enhanced central processor intervention interrupt.

DCODE = Decode error. Valid for SM-2000 only.
4. SYSTEM RESPONSE

DL0PE = Dual link interface (DLI) 0 parity error. Not valid for SM-2000.
DL0II = Data link 0 interrupt. Not valid for SM-2000.
IAC0 = DLI0 illegal access error. Not valid for SM-2000.
IAC1 = DLI 1 illegal access error. Not valid for SM-2000.
LPVER = Bus lock violation. Valid for SM-2000 only.
MADPE = Address parity error.
MCINT = Resets in the mate controller.
MH0IN = Message handler 0 interrupt. Valid for SM-2000 only.
MH1IN = Message handler 1 interrupt. Valid for SM-2000 only.
MH2IN = Message handler 2 interrupt. Valid for SM-2000 only.
MIOIO = I/O invalid operation error.
MIOLE = I/O timer lock error.
MIOTO = I/O timer time out error.
MIOUE = I/O unlock error.
MPRIN = Maintenance interrupts in the mate MCTSI.
MRDYT = Ready time out.
MRSPERR = Multiple response error. Valid for MCTU2 and SM-2000 only.
MRWE = Read or write parity error.
MWPER = Write protect error.
NCBERR = Non-correctable bit error. Valid for SM-2000 only.
OXUxIN = OXU interrupts where "x" is the OXU number (1 - 8). Valid for SM-2000 only.
PIINT = Packet interface (PI) interrupt.
PUMPHW = Pump hardware errors. Valid for MCTU2, MCTU3, and SM-2000 only.
REFE = Dynamic RAM refresh fail error. Valid for SM-2000 only.
SSYNC = Scanned I/O sync error. Valid for SM-2000 only.
TSIIN = Time-slot interchange (TSI) interrupt. For SM-2000, this will allow interrupts from network link interfaces (NLIs) if the NLIs are not inhibited by an INH:HDWCHK-ONTC request.
TSI4IN = TSI model four interrupt. Allowing this bit will not affect the inhibits for NLIs. Use this if you want to inhibit only TSI interrupts. Valid for SM-2000 only.
XCDUXIN = XCDU interrupt where x is the XCDU number. Allowing this interrupt will result in allowing all interrupts for the requested XCDU including the interrupts from the CIs in that XCDU. Valid for SM-2000 only.
XLCKM = XCDCLs (electrical control and data control link) or OCDCLs (optical control and data control link) loss of clock interrupt. Valid for SM-2000 only.
PF = Printout follows. Followed by the ALW:HDW-MCTSI output message.

RL = Retry later. The message cannot be processed, so try the message again later. This response will be output if the AM cannot communicate with the requested SM/SM-2000.

5. REFERENCES

Input Message(s):

INH : HDW-MCTSI
OP : OFFNORM-SM

Output Message(s):

ALW : HDW-MCTSI
OP : OFFNORM-SM

Input Appendix(es):

APP : RANGES

Other Manual(s):

235-105-250  System Recovery Procedures
1. PURPOSE

Requests that a hardware check be allowed in a module controller/time-slot interchange unit (MCTSI). The system enables the indicated HDWCHK if internal checks allow the transition.

2. FORMAT

ALW:HDWCHK,MCTSI=a-b,c;

3. EXPLANATION OF MESSAGE

a = Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

b = Module controller number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

c = Keyword that specifies inhibit bit name. If the keyword is invalid for the specified SM/SM-2000, the request will be denied with the message STOPPED REQUEST NOT ALLOWED.

Valid value(s):
AFFCI = Active flip-flop cleared interrupt. Valid for SMs with the module controller/time slot interchange unit 3 (MCTU3) and for SM-2000s.
ALL = All valid module controller maintenance errors.
ARPV = Arbitration protocol violation error. Valid for SM-2000 only.
CACHE = Cache errors. Allowing CACHE on SM-2000s with cache allows the interrupts source while on non-SM-2000s with caches it enables the cache area (the normal mode of operation) as well, which speeds up the operation of the processor. This option is only valid for SMs with the module controller/time slot interchange unit 2 (MCTU2), the extended memory addressing (EMA) 20 or SM-2000s equipped with a CORE60 or CORE700 processor pack. If this error has been inhibited, allowing it will improve processor performance on non-SM-2000s.
CADPR = Memory address mismatch error. Valid for SM-2000 only.
CBERR = Correctable bit error. If this error has been inhibited, allowing it will improve processor performance. Inhibiting this has no performance impact on SM-2000 or MCTU3.
CI0IN and CI00IN = Control interface (CI) 0 interrupt.
CI1IN and CI01IN = CI 1 interrupt.
CI2IN and CI02IN = CI 2 interrupt. Valid for SM-2000 only.
CI3IN and CI03IN = CI 3 interrupt. Valid for SM-2000 only.
CIdeIN = CI interrupt in an electrical extended control and data unit (XCDU) or optical extended control and data unit (OXU) shelf. Valid for SM-2000 only.
CPINT = Enhanced central processor intervention interrupt.
DCODE = Decode error. Valid for SM-2000 with CORE60 only.
DL0PE = Dual link interface (DLI) 0 parity error. Not valid for SM-2000.
DLI0I  = Data link 0 interrupt. Not valid for SM-2000.
DLI1I  = Data link 1 interrupt. Not valid for SM-2000.
IAC0   = DLI0 illegal access error. Not valid for SM-2000.
IAC1   = DLI 1 illegal access error. Not valid for SM-2000.
LOSUI  = Update interface loss of synchronization. Valid for SM-2000 with CORE700 only.
LPVER  = Bus interface loss of synchronization. Valid for SM-2000 with CORE60 only.
MADPE  = Address parity error.
MCINT  = Resets in the mate controller.
MH0IN  = Message handler 0 interrupt. Valid for SM-2000 only.
MH1IN  = Message handler 1 interrupt. Valid for SM-2000 only.
MH2IN  = Message handler 2 interrupt. Valid for SM-2000 only.
MIOIO  = I/O invalid operation error.
MIOLE  = I/O timer lock error.
MIOTO  = I/O timer time out error.
MIQUE  = I/O unlock error.
MPRIN  = Maintenance interrupts in the mate MCTSI.
MRDYT  = Ready time out.
MRSPERR = Multiple response error. Valid for MCTU2 and SM-2000 only.
MRWPE  = Read or write parity error.
MWPER  = Write protect error.
NCBERR = Non-correctable bit error. Valid for SM-2000 only.
OXUFIN = OXU interrupts. Valid for SM-2000 only.
PIINT  = Packet interface (PI) interrupt.
PUMPHW = Pump hardware errors. Valid for MCTU2, MCTU3, and SM-2000 only.
REFE   = Dynamic RAM refresh fail error. Valid for SM-2000 only.
SSYNC  = Scanned I/O sync error. Valid for SM-2000 with CORE60 only.
TSIIN  = Time-slot interchange (TSI) interrupt. For SM-2000, this will allow interrupts from network link interfaces (NLIs) if the NLIs are not inhibited by an INH:HDWCHK-ONTC request.
TSI4IN = TSI model four interrupt. Allowing this bit will not affect the inhibits for NLIs. Use this if you want to inhibit only TSI interrupts. Valid for SM-2000 only.
XCDUgIN = XCDU interrupt. Allowing this interrupt will result in allowing all interrupts for the requested XCDU including the interrupts from the CIs and DIs in that XCDU. Valid for SM-2000 only.
XLCKM  = Electrical control and data control link (XCDCDL) or optical control and data control link (OCDCL) loss of clock interrupt. Valid for SM-2000 only.

* = Shelf. Valid value(s):
0  = Local CI's.
1 - 8  = XCDU/OXU number.
e = CI number. Valid value(s):
   0 - 3 = Local. Valid for SM-2000 only.
   0 - 2 = XCDU/OXU. Valid for SM-2000 only.

f = OXU number (1 - 8).

g = XCDU number.

4. SYSTEM RESPONSE

   PF = Printout follows. Followed by the ALW:HDW-MCTSI output message.

   RL = Retry later. The message cannot be processed, so try the message again later. This response will be output if the AM cannot communicate with the requested SM/SM-2000.

5. REFERENCES

Input Message(s):

   INH:HDW-MCTSI
   OP:OFFNORM-SM

Output Message(s):

   ALW:HDW-MCTSI
   OP:OFFNORM-SM

Input Appendix(es):

   APP:RANGES

Other Manual(s):

235-105-250   System Recovery Procedures
ALW:HDW-MMP

Software Release: 5E14 and later
Command Group: CM
Application: 5
Type: Input

1. PURPOSE

Requests that hardware error checks be allowed to be performed on the specified module message processor (MMP).

2. FORMAT

ALW:HDWCHK,MMP=a-b;

3. EXPLANATION OF MESSAGE

a = Message switch side.
b = MMP logical identification number.

4. SYSTEM RESPONSE

NG = No good. The message was invalid.
PF = Printout follows. Followed by the ALW:HDWCHK output message.

5. REFERENCES

Input Message(s):

INH:HDWCHK
OP:CFGSTAT

Output Message(s):

ALW:HDWCHK
INH:HDWCHK
OP:CFGSTAT

Other Manual(s):

235-105-250 System Recovery
1. PURPOSE
Allows hardware checks (errors) on a message switch control unit (MSCU).

2. FORMAT
ALW:HDWCHK,MSCU=a;

3. EXPLANATION OF MESSAGE
a = MSCU side.

4. SYSTEM RESPONSE
NG = No good. May also include:
   - NO INHIBITS FOR CM1 MSCU = This office has communications module model 1 (CM1)
     hardware. Hardware checks cannot be inhibited or allowed on a CM1 MSCU.
   - UNIT UNEQUIPPED = The specified unit is not equipped.

PF = Printout follows. A printout will follow when the requested action is completed.

5. REFERENCES
Input Message(s):
   INH:HDW-MSCU
   OP:HDWCHK

Output Message(s):
   ALW:HDWCHK

Other Manual(s):
235-105-220  System Recovery Procedures
ALW:HDW-MSUCOM
  Software Release: 5E14 and later
  Command Group: SM
  Application: 5
  Type: Input

1. PURPOSE

Allows hardware error checks to be performed on the specified metallic service unit common (MSUCOM) board.

2. FORMAT

ALW: HDWCHK, MSUCOM=a-b-c;

3. EXPLANATION OF MESSAGE

a  = Switching module number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

b  = Metallic service unit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

c  = Service group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

Refer to the System Responses Table in the Input Messages User Guidelines.

5. REFERENCES

Input Appendix(es):

APP: RANGES
ALW:HDW-NCREF-A

Software Release: 5E14 only
Command Group: CM
Application: 5
Type: Input

1. PURPOSE
Requests that hardware error checks be allowed to be performed on a specified network clock reference (NCREF).

2. FORMAT
ALW:HDWCHK,NCREF,a=b;

3. EXPLANATION OF MESSAGE

a = Network clock reference (NCREF).

<table>
<thead>
<tr>
<th>Network clock type:</th>
<th>Valid value(s):</th>
</tr>
</thead>
<tbody>
<tr>
<td>Network clock 1 (NC1)</td>
<td>PRIM = Primary reference.</td>
</tr>
<tr>
<td></td>
<td>SEC = Secondary reference.</td>
</tr>
<tr>
<td></td>
<td>XC = Cross-couple reference.</td>
</tr>
<tr>
<td>Network clock 2 (NC2)</td>
<td>REFn = Reference number.</td>
</tr>
<tr>
<td></td>
<td>XC = Cross-couple reference.</td>
</tr>
</tbody>
</table>

b = Network clock side.

4. SYSTEM RESPONSE

NG = No good. The message syntax is valid, but the request conflicts with the current system or equipment status.

PF = Printout follows. The ALW:HDW-NCREF output message follows.

RL = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

Input Message(s):

INH:HDW-NCREF
OP:CFGSTAT

Output Message(s):

ALW:HDW-NCREF
INH:HDW-NCREF
OP:CFGSTAT
Input Appendix(es):

APP : CM–IM–REASON

Other Manual(s):
235-105-110 System Maintenance Requirements and Tools
235-105-220 Corrective Maintenance

MCC Display Page(s):

1210 (MI/LI/NC)
1211 (NETWORK CLOCK)
1. **PURPOSE**

Requests that hardware error checks be allowed to be performed on a specified network clock reference (NCREF).

2. **FORMAT**

   ALW:HDWCHK,NCREF,a=b;

3. **EXPLANATION OF MESSAGE**

   a = Network clock reference (NCREF).

<table>
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<td>XC = Cross-couple reference.</td>
</tr>
<tr>
<td>Network clock 2 (NC2)</td>
<td>XC = Cross-couple reference.</td>
</tr>
</tbody>
</table>

   b = Network clock side.

4. **SYSTEM RESPONSE**

   NG = No good. The message syntax is valid, but the request conflicts with the current system or equipment status.

   PF = Printout follows. The ALW:HDW-NCREF output message follows.

   RL = Retry later. The request cannot be executed now due to unavailable system resources.

5. **REFERENCES**

   **Input Message(s):**

   INH:HDW-NCREF
   OP:CFGSTAT

   **Output Message(s):**

   ALW:HDW-NCREF
   INH:HDW-NCREF
   OP:CFGSTAT
ALW:HDW-OFI
Software Release: 5E16(1) and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE
Requests that hardware checks be allowed on an optical facility interface (OFI).

2. FORMAT
ALW:HDWCHK,OFI=a-b-c-d;

3. EXPLANATION OF MESSAGE
   a = Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
   b = Optical interface unit (OIU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
   c = Protection group (PG) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
   d = Side number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE
   NG = No good. The message form is valid, but the request conflicts with the current status.
   PF = Printout follows. Followed by the ALW:HDW-OFI output message.
   RL = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES
Input Message(s):
   INH:HDW-OFI

Output Message(s):
   ALW:HDW-OFI

Input Appendix(es):
   APP:RANGES
ALW:HDW-ONTC
Software Release: 5E14 and later
Command Group: CM
Application: 5
Type: Input

1. PURPOSE
Allows hardware error checks to be performed on the specified office network and control complex (ONTC).

2. FORMAT
ALW:HDWCHK,ONTC=a;

3. EXPLANATION OF MESSAGE
a = Side of ONTC.

4. SYSTEM RESPONSE
NG = No good. The request has been denied. The message syntax is valid, but the request could not be processed. Refer to the APP:CM-IM-REASON appendix in the Appendixes section of the Input Messages manual for a list of possible reasons for denying the request.
PF = Printout follows.
RL = Retry later. The request cannot be executed now because the communication module (CM) deferred maintenance queue (DMQ) is full.

5. REFERENCES
Input Message(s):
INH:HDW-ONTC
OP:CFGSTAT

Output Message(s):
ALW:HDW-ONTC
INH:HDW-ONTC
OP:CFGSTAT

Input Appendix(es):
APP:CM-IM-REASON
**ALW:HDW-PCTDX**

**Software Release:** 5E14 and later  
**Command Group:** SM  
**Application:** 5  
**Type:** Input

### 1. PURPOSE

Allows hardware checks on a peripheral control and timing data exchanger (PCTDX)

### 2. FORMAT

ALW:HDWCHK,PCTDX=a-b-c;

### 3. EXPLANATION OF MESSAGE

- **a** = Switch Module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
- **b** = Peripheral control and timing data exchanger unit (PDXU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
- **c** = Peripheral control and timing data exchanger (PCTDX) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

### 4. SYSTEM RESPONSE

- **NG** = No good. The request has been denied. The message form is valid, but the request conflicts with the current status.
- **PF** = Printout follows. Followed by the ALW:HDW-PCTDX output message.
- **RL** = Retry later. The request cannot be executed now due to unavailable system resources.

### 5. REFERENCES

**Input Message(s):**

INH:HDW-PCTDX

**Output Message(s):**

ALW:HDW-PCTDX

**Input Appendix(es):**

APP:RANGES

**Other Manual(s):**

235-105-110  
*System Maintenance Requirements and Tools*
235-105-220  Corrective Maintenance

MCC Display Page(s):

1330, y (PDXU)
ALW:HDW-PLTLK
Software Release: 5E15 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE
Requests that hardware checks be allowed on a PCT (Peripheral Control and Timing) line and trunk unit link.

2. FORMAT
ALW:HDWCHK,PLTLK=a-b-c-d;

3. EXPLANATION OF MESSAGE
   a = Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
   b = PLTU (PCT Line and Trunk Unit) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
   c = PCT Facility Interface number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
   d = PCT Facility Interface side number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE
   NG = No good.
   PF = Printout follows. An ALW:HDW PLTLK output message follows.
   RL = Retry later. The request cannot be executed now due to unavailable system resource.

5. REFERENCES
None.
ALW:HDW-PPC

Software Release: 5E14 and later
Command Group: CM
Application: 5
Type: Input

1. PURPOSE
Requests that hardware error checks be allowed to be performed on the specified pump peripheral controller (PPC).

2. FORMAT

ALW:HDWCHK,PPC=a;

3. EXPLANATION OF MESSAGE

a = PPC number.

4. SYSTEM RESPONSE

NG = No good. The message was invalid.
PF = Printout follows.

5. REFERENCES

Input Message(s):

INH:HDWCHK
OP:CFGSTAT

Output Message(s):

ALW:HDWCHK
INH:HDWCHK
OP:CFGSTAT
1. PURPOSE

Allows hardware checks on a packet switch unit (PSU) common controller (COM).

2. FORMAT

ALW:HDWCHK,PSUCOM=a-b-c[-d];

3. EXPLANATION OF MESSAGE

a = Switching module (SM) number.
b = PSU number.
c = Service group number.
d = Protocol handler number.

4. SYSTEM RESPONSE

NG = No good. The message form is valid, but the request conflicts with current status.
PF = Printout follows. Followed by the ALW:HDW-PSUCOM output message.
RL = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

Input Message(s):

INH:HDW-PSUCOM

Output Message(s):

ALW:HDW-PSUCOM

MCC Display Page(s):
118x PSU SHELF
1186 PSU NETWORK
1. PURPOSE

Allows hardware checks on a packet switch unit (PSU) common controller (COM).

2. FORMAT

ALW:HDWCHK,PSUCOM=a-b-c[-d];

3. EXPLANATION OF MESSAGE

a = Switching module (SM) number.
b = PSU number.
c = Service group number.
d = Protocol handler number.

4. SYSTEM RESPONSE

NG = No good. The message form is valid, but the request conflicts with current status.
PF = Printout follows. Followed by the ALW:HDW-PSUCOM output message.
RL = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

Input Message(s):

INH:HDW–PSUCOM

Output Message(s):

ALW:HDW–PSUCOM

MCC Display Page(s):

118x,y PSU SHELF
1186,y PSU NETWORK (where y=PSU number)
ALW:HDW-PSUPH-A

Software Release: 5E14 - 5E15
Command Group: SM
Application: 5
Type: Input

1. PURPOSE
Allows hardware checks on a packet switch unit (PSU) protocol handler (PH).

2. FORMAT
ALW:HDWCHK,PSUPH=a-b-c[-d];

3. EXPLANATION OF MESSAGE
a = Switching module (SM) number.
b = PSU number.
c = Shelf number.
d = Protocol handler number.

4. SYSTEM RESPONSE
NG = No good. The message form is valid, but the request conflicts with current status.
PF = Printout follows. Followed by the ALW:HDW-PSUPH output message.
RL = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES
Input Message(s):
INH:HDW–PSUPH

Output Message(s):
ALW:HDW–PSUPH

MCC Display Page(s):
118x PSU SHELF
1186 PSU NETWORK
ALW:HDW-PSUPH-B

Software Release: 5E16(1) and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Allows hardware checks on a packet switch unit (PSU) protocol handler (PH).

2. FORMAT

ALW:HDWCHK,PSUPH=a-b-c[-d];

3. EXPLANATION OF MESSAGE

a = Switching module (SM) number.
b = PSU number.
c = Shelf number.
d = Protocol handler number.

4. SYSTEM RESPONSE

NG = No good. The message form is valid, but the request conflicts with current status.
PF = Printout follows. Followed by the ALW:HDW-PSUPH output message.
RL = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

Input Message(s):

INH:HDW-PSUPH

Output Message(s):

ALW:HDW-PSUPH

MCC Display Page(s):

118x,y PSU SHELF
1186,y PSU NETWORK (where y=PSU number)
ALW:HDW-QGP

Software Release: 5E14 and later
Command Group: CM
Application: 5
Type: Input

1. PURPOSE
Requests that hardware error checks be allowed to be performed on the specified quad-link packet switch gateway processor (QGP).

2. FORMAT
ALW:HDWCHK,QGP=a-b;

3. EXPLANATION OF MESSAGE
a = Message switch (MSGS) side number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
b = QGP number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE
NG = No good. The request has been denied. The message syntax is valid, but the request could not be processed. Refer to the APP:CM-IM-REASON appendix in the Appendixes section of the Input Messages manual for a list of possible reasons for denying the request.
PF = Printout follows. The ALW:HDW-QGP output message follows.
RL = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES
Input Message(s):
INH:HDW-QGP
OP:HDWCHK

Output Message(s):
ALW:HDW-QGP
INH:HDW-QGP
OP:HDWCHK

Input Appendix(es):
APP:CM-IM-REASON
APP:RANGES
Other Manual(s):
235-105-110  System Maintenance Requirements and Tools
235-105-250  System Recovery Procedures

MCC Display Page(s):
1241/51 (MSGS COMMUNITIES 0-1, 8-9)
1240/50 (MSGS STATUS for CM3)
1380/1 (QLPS NETWORK 0/1 STATUS)
1. PURPOSE

Allows hardware checks in a recorded announcement function (RAF) unit to occur. The system enables the indicated interrupt if internal checks allow the transition.

2. FORMAT

ALW:HDWCHK,RAF=a-b;

3. EXPLANATION OF MESSAGE

a = Switching module (SM) number.
b = RAF unit number.

4. SYSTEM RESPONSE

NG = No good. May also include:
- SM DOES NOT EXIST = The requested SM does not exist in the system.
- SM UNEQUIPPED = The SM specified in the request is unequipped.
- UNIT DOES NOT EXIST = The requested unit does not exist in the system.

PF = Printout follows. The request has been accepted. Followed by the ALW:HDW-RAF output message.

RL = Retry later. The request cannot be executed now due to unavailable system resources. The message may be entered again later.

5. REFERENCES

Input Message(s):
INH:HDW-RAF

Output Message(s):
ALW:HDW-RAF

MCC Display Page(s):
(RAF PAGE)
1. PURPOSE

Requests that hardware error checks be allowed to be performed on the specified remote communication link (RCL) circuit between inter-remote switching module (RSM) communication link digital facilities interface (CDFI) circuits.

2. FORMAT

ALW:HDWCHK,RCL=a-b-c-d;

3. EXPLANATION OF MESSAGE

a = Switching module (SM) number.
b = Digital line and trunk unit (DLTU) number.
c = CDFI number.
d = Facility (FAC) number. The FAC number is the T1 facility number on a CDFI.

4. SYSTEM RESPONSE

Refer to the System Responses Table in the Input Messages User Guidelines.

5. REFERENCES

Input Message(s):

INH:HDW–RCL

Output Message(s):

ALW:HDW–RCL
ALW:HDW-RCLK

Software Release: 5E14 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Allows hardware error checks to be performed on the specified remote clock (RCLK) circuit at the peripheral interface control bus (PICB) level. This message will also allow hardware checks to occur on the mate remote clock cross couple (RCXC) if the RCXC is in service.

2. FORMAT

ALW:HDWCHK,RCLK=a-b;

3. EXPLANATION OF MESSAGE

a = Switching module (SM) number.
b = RCLK side.

4. SYSTEM RESPONSE

NG = No good. May also include:

NOT STARTED UNIT IN GROWTH STATE
SM DOES NOT EXIST
SM UNEQUIPPED
UNIT DOES NOT EXIST

PF = Printout follows. The ALW:HDW-RCLK output message follows.

RL = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

Input Message(s):

INH:HDW-RCLK
INH:HDW-RCXC

Output Message(s):

ALW:HDW-RCLK
ALW:HDW-RCXC
INH:HDW-RCLK
ALW:HDW-RCOSC

Software Release: 5E14 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Allows hardware error checks to be performed on the specified remote clock oscillator (RCOSC) circuit. This message will also allow hardware checks to occur on the remote clock oscillator cross couple (RCOXC) if the RCOXC is in service.

2. FORMAT

ALW:HDWCHK,RCOSC=a-b;

3. EXPLANATION OF MESSAGE

a = Switching module (SM) number.
b = RCOSC side.

4. SYSTEM RESPONSE

NG = No good. May also include:

    NOT STARTED UNIT IN GROWTH STATE
    SM DOES NOT EXIST
    SM UNEQUIPPED
    UNIT DOES NOT EXIST

PF = Printout follows. The ALW:HDW-RCOSC output message follows.

RL = Repeat later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

Input Message(s):

INH:HDW-RCLK
INH:HDW-RCOSC

Output Message(s):

ALW:HDW-RCOSC
ALW:HDW-RCOXC
INH:HDW-RCOXC
**ALW:HDW-RCOXC**

**Software Release:** 5E14 and later  
**Command Group:** SM  
**Application:** 5  
**Type:** Input

1. **PURPOSE**

Allows hardware error checks to be performed on the specified remote clock oscillator cross couple (RCOXC) link.

2. **FORMAT**

\`ALW:HDWCHK,RCOXC=a-b;\`

3. **EXPLANATION OF MESSAGE**

\(a\)

= Switching module (SM) number.

\(b\)

= RCOXC side.

4. **SYSTEM RESPONSE**

**NG**

= No good. May also include:

- NOT STARTED UNIT IN GROWTH STATE
- SM DOES NOT EXIST
- SM UNEQUIPPED
- UNIT DOES NOT EXIST

**PF**

= Printout follows. The ALW:HDW-RCOXC output message follows.

**RL**

= Retry later. The request cannot be executed now due to unavailable system resources.

5. **REFERENCES**

Input Message(s):

- ALW:HDW-RCOSC
- INH:HDW-RCOXC

Output Message(s):

- ALW:HDW-RCOXC
- INH:HDW-RCOXC
ALW:HDW-RCREF

Software Release: 5E14 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Allows hardware error checks to be performed on the specified remote clock reference (RCREF).

2. FORMAT

ALW:HDWCHK,RCREF=a-b;

3. EXPLANATION OF MESSAGE

a = Switching module (SM) number.

b = Equipped reference number.

4. SYSTEM RESPONSE

NG = No good. May also include:

- NOT STARTED UNIT IN GROWTH STATE
- SM DOES NOT EXIST
- SM UNEQUIPPED
- UNIT DOES NOT EXIST

PF = Printout follows. The ALW:HDW-RCREF output message follows.

RL = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

Input Message(s):

INH:HDW-RCLK

Output Message(s):

ALW:HDW-RCREF
INH:HDW-RCREF
ALW:HDW-RCXC

Software Release: 5E14 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE
Allows hardware error checks to be performed on the specified remote clock cross couple (RCXC) circuit.

2. FORMAT
ALW:HDWCHK,RCXC=a-b;

3. EXPLANATION OF MESSAGE
a = Switching module (SM) number.
b = RCXC side.

4. SYSTEM RESPONSE
NG = No good. May also include:
   NOT STARTED UNIT IN GROWTH STATE
   SM DOES NOT EXIST
   SM UNEQUIPPED
   UNIT DOES NOT EXIST

PF = Printout follows. The ALW:HDW-RCXC output message follows.

RL = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES
Input Message(s):
   ALW:HDW-RCLK
   INH:HDW-RCLK
   INH:HDW-RCXC

Output Message(s):
   ALW:HDW-RCXC
   INH:HDW-RCXC
ALW:HDW-RDFI

Software Release: 5E14 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Allows hardware error checks to be performed on the specified remote switching module (RSM) digital facilities interface (RDFI) circuit.

2. FORMAT

ALW:HDWCHK,RDFI=a-b-c;

3. EXPLANATION OF MESSAGE

a = Switching module (SM) number.
b = Digital line and trunk unit (DLTU) number.
c = RDFI number.

4. SYSTEM RESPONSE

NG = No good. Request denied because of a conflict with current status.
PF = Printout follows. Followed by the ALW:HDW-RDFI output message.

5. REFERENCES

Input Message(s):

INH:HDW-RDFI

Output Message(s):

ALW:HDW-RDFI
1. **PURPOSE**

Allows hardware error checks to be performed on the specified remote switching module (RSM) remote link interface (RLI) circuit.

2. **FORMAT**

   ALW:HDWCHK, RLI=a-b;

3. **EXPLANATION OF MESSAGE**

   a = Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

   b = RLI number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. **SYSTEM RESPONSE**

   NG = No good. Request denied because of a conflict with current status.

   PF = Printout follows. Followed by the ALW:RLI output message.

5. **REFERENCES**

   Input Message(s):
   
   INH:HDW-RLI

   Output Message(s):
   
   ALW:RLI

   Input Appendix(es):
   
   APP:RANGES
ALW:HDW-RRCLK

Software Release: 5E14 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Allows hardware checks to occur on a remote integrated services line unit (RISLU) remote clock circuit pack (RRCLK). The system enables the hardware checks if internal status allows the transition.

2. FORMAT

ALW:HDWCHK,RRCLK=a-b-c;

3. EXPLANATION OF MESSAGE

a = Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

b = RISLU number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

c = RRCLK side. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

NG = No good. May also include:

CONFLICT WITH UNIT STATE
SM DOES NOT EXISTSM UNEQUIPPED
UNIT DOES NOT EXIST

PF = Printout follows. The ALW:HDW-RRCLK output message follows.

RL = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

Input Message(s):

INH:HDW-RRCLK

Output Message(s):

ALW:HDW-RRCLK

Input Appendix(es):

APP:RANGES
ALW:HDW-RVPT

Software Release: 5E14 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE
Allows hardware error checks to be performed on the specified revertive pulsing transceiver (RVPT).

2. FORMAT
ALW:HDWCHK:RVPT=a-b-c-d;

3. EXPLANATION OF MESSAGE

a = Switching module number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

b = Unit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

c = Service group. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

d = Circuit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

NG = No good. The request has been denied. The message form is valid, but the request conflicts with current status.

PF = Printout follows. An output message will follow with complete status.

RL = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

Output Message(s):
ALW: HDW–RVPT

Input Appendix(es):
APP: RANGES
ALW:HDW-SAS

Software Release: 5E14 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Allows hardware checks in a service announcement system (SAS) unit to occur. The system enables the indicated interrupt if internal checks allow the transition.

2. FORMAT

ALW:HDWCHK,SAS=a-b;

3. EXPLANATION OF MESSAGE

a = Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

b = SAS unit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

NG = No good. The request has been denied because it conflicts with current equipment status. May also include:
- SM DOES NOT EXIST = The requested SM does not exist in the system.
- SM UNEQUIPPED = The SM specified in the request is unequipped.
- UNIT DOES NOT EXIST = The requested unit does not exist in the system.

PF = Printout follows. The request has been accepted. The ALW:HDW-SAS output message follows.

RL = Retry later. The request cannot be executed now due to unavailable system resources. The message may be entered again later.

5. REFERENCES

Input Message(s):

INH:HDW-SAS

Output Message(s):

ALW:HDW-SAS
INH:HDW-SAS

Input Appendix(es):

APP:RANGES
ALW:HDW-SDFI

Software Release: 5E14 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Allows hardware error checks to be performed on the specified SLC®96 digital facility interface (SDFI).

2. FORMAT

ALW:HDWCHK,SDFI=a-b-c;

3. EXPLANATION OF MESSAGE

a = Switching module (SM) number.
b = DCLU number.
c = SDFI number.

4. SYSTEM RESPONSE

NG = No good. The request has been denied. The message form is valid, but the request conflicts with current status.
PF = Printout follows. The request was accepted. Followed by the ALW:HDW-SDFI output message.
RL = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

Output Message(s):

ALW:HDW-SDFI
ALW:HDW-SFI

Software Release: 5E14 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Requests that hardware checks be allowed on a digital networking unit - synchronous optical network (DNU-S) synchronous transport signal electrical interface (STSX-1) facility interface (SFI).

2. FORMAT

ALW:HDWCHK,SFI=a-b-c-d;

3. EXPLANATION OF MESSAGE

a = Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

b = DNU-S number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

c = Data group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

d = STSX-1 facility interface number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

NG = No good. The message form is valid, but the request conflicts with the current status.

PF = Printout follows. An ALW:HDW-SFI output message will follow.

RL = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

Input Message(s):
INH:HDW-SFI

Output Message(s):
ALW:HDW-SFI

Input Appendix(es):
APP:RANGES
MCC Display Page(s):

1510 (DNUS STATUS)
ALW:HDW-SM

Software Release: 5E14 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Allows all hardware error checks in one or more switching modules (SMs). This message cancels the effect of the INH:HDWCHK input message.

2. FORMAT

ALW:HDWCHK, SM=a[a&b][,LSM][,HSM][,RSM][,ORM][,TRM];

3. EXPLANATION OF MESSAGE

Note: Refer to the Acronym section of the Input Messages manual for the full expansion of acronyms shown in the format.

- a = SM number or lower limit of a range of SMs.
- b = Upper limit of the range of SM numbers.

4. SYSTEM RESPONSE

- IP = In progress. The message was accepted and the request is in progress.
- NG = No good. The message was not accepted because an illegal SM number or range was specified.

5. REFERENCES

Input Message(s):

INH:HDWCHK

Other Manual(s):

235-105-220 Corrective Maintenance
235-105-250 System Recovery
ALW:HDW-TAC
Software Release: 5E14 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE
Allows hardware error checks to be performed on the specified test and access circuit (TAC).

2. FORMAT
ALW:HDWCHK,TAC=a-b-c;

3. EXPLANATION OF MESSAGE

   a = Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

   b = Trunk unit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

   c = Service group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE
Refer to the System Responses Table in the Input Messages User Guidelines.

5. REFERENCES
Input Appendix(es):

   APP:RANGES
ALW:HDW-TEN
Software Release: 5E14 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE
Allows hardware error checks to be performed on the specified trunk equipment number (TEN).

2. FORMAT
ALW:HDWCHK,TEN=a-b-c-d-e;

3. EXPLANATION OF MESSAGE
a = Switching module number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
b = Trunk unit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
c = Service group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
d = TEN board number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
e = TEN circuit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE
Refer to the System Responses Table in the Input Messages User Guidelines.

5. REFERENCES
Input Appendix(es):
APP:RANGES
ALW:HDW-TMUX

Software Release: 5E14 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Requests that hardware checks be allowed on a digital networking unit - synchronous optical network (DNU-S) transmission multiplexer (TMUX).

2. FORMAT

ALW:HDWCHK,TMUX=a-b-c-d;

3. EXPLANATION OF MESSAGE

a = Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

b = DNU-S number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

c = Data group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

d = TMUX number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

NG = No good. The message form is valid, but the request conflicts with the current status.

PF = Printout follows. An ALW:HDW-TMUX output message will follow.

RL = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

Input Message(s):

INH:HDW-TMUX

Output Message(s):

ALW:HDW-TMUX

Input Appendix(es):

APP: RANGES
MCC Display Page(s):

1510 (DNUS STATUS)
ALW:HDW-TTF

Software Release: 5E14 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Allows hardware error checks to be performed on the specified transmission test facility common (TTF) circuit pack.

2. FORMAT

ALW:HDWCHK,TTF=a-b-c-d;

3. EXPLANATION OF MESSAGE

a = Switching module number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

b = Global digital service unit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

c = Service group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

d = Digital service circuit board number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

Refer to the System Responses Table in the Input Messages User Guidelines.

5. REFERENCES

Input Appendix(es):

APP:RANGES
1. PURPOSE

Allows hardware error checks to be performed on the specified universal conference (UCONF) circuit board.

2. FORMAT

ALW:HDWCHK,UCONF=a-b-c-d;

3. EXPLANATION OF MESSAGE

a  = Switching module number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

b  = Digital service unit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

c  = Service group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

d  = Digital service circuit board number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

Refer to the System Responses Table in the Input Messages User Guidelines.

5. REFERENCES

Input Appendix(es):

   APP:RANGES
ALW:HDW-UTD

**Software Release**: 5E14 and later  
**Command Group**: SM  
**Application**: 5  
**Type**: Input

### 1. PURPOSE

Allows hardware error checks to be performed on the specified universal tone decoder (UTD).

### 2. FORMAT

ALW:HDWCHK,UTD=a-b-c-d;

### 3. EXPLANATION OF MESSAGE

- **a** = Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
- **b** = Local digital service unit (LDSU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
- **c** = Service group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
- **d** = DSU board position number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

### 4. SYSTEM RESPONSE

Refer to the System Responses Table in the Input Messages User Guidelines.

### 5. REFERENCES

Input Appendix(es):

- APP:RANGES
ALW:HDW-UTG

Software Release: 5E14 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Allows hardware error checks to be performed on the specified universal tone generator (UTG).

2. FORMAT

ALW:HDWCHK, UTG=a-b-c-d;

3. EXPLANATION OF MESSAGE

a = Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

b = Local digital service unit (LDSU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

c = Service group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

d = DSU board position number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

Refer to the System Responses Table in the Input Messages User Guidelines.

5. REFERENCES

Input Appendix(es):

APP:RANGES
ALW:HDWCHK

Software Release: 5E14 and later
Command Group: SYSRCVY
Application: 5,3B
Type: Input

1. PURPOSE

Requests that the system status register be set such that a control unit (CU) switch can be implemented as a normal fault recovery procedure, thereby allowing a switch to the standby administrative module (AM) control unit when a fault occurs in the active AM control unit.

2. FORMAT

ALW:HDWCHK;

3. EXPLANATION OF MESSAGE

No variables.

4. SYSTEM RESPONSE

PF = Printout follows. Followed by the ALW:HDWCHK output message.

5. REFERENCES

Input Message(s):

ALW:ERRCHK
INH:HDWCHK
OP:ERRCHK

Output Message(s):

ALW:HDWCHK
INH:HDWCHK
OP:ERRCHK

Other Manual(s):
235-105-110 System Maintenance Requirements and Tools
ALW:HIST

Software Release: 5E14 and later
Command Group: NOCHK
Application: 5
Type: Input

1. PURPOSE

Allows history recording for the terminal upon which it is entered. Subsequent input requests entered at the terminal will be stored and available for recall and edit. ALW:HIST does not clear the command history buffer.

By default, history recording is enabled when a terminal comes into service.

2. FORMAT

ALW:HIST;

3. EXPLANATION OF MESSAGE

No variables.

4. SYSTEM RESPONSE

OK = OK. Input request was accepted and has been applied.

5. REFERENCES

Input Message(s):

CLR:HIST
INH:HIST
OP:HIST

Output Message(s):

OP:HIST

Other Manual(s):
235-105-110 System Maintenance Requirements and Tools
ALW:HWGRD

Software Release: 5E14 and later
Command Group: TRKLN
Application: 5
Type: Input

1. PURPOSE

Requests that the printing of a line removal message on the receive-only printer (ROP) be allowed when a line unit, dial tone first (DTF) coin, or integrated services line unit (ISLU) Z-card (analog line) is placed out-of-service (OOS) maintenance (MTCE) high-and-wet (HW) ground (GRD).

2. FORMAT

ALW:HWGRD[,SM=a[&b]];

3. EXPLANATION OF MESSAGE

a = SM number or the lower limit of a range of SMs. If no SM number or range is specified, all equipped and operational SMs will be allowed.

b = The upper limit of a range of SMs.

4. SYSTEM RESPONSE

NG = No good. The message was not recognized or acceptable.

PF = Printout follows. Followed by ALW:HWGRD output message.

5. REFERENCES

Input Message(s):

INH:HWGRD

Output Message(s):

INH:HWGRD
ALW:HWGRD

Output Appendix(es):

APP:PORT-STATUS
1. PURPOSE

Requests that a specific machine-detected interoffice irregularity (MDII) that has reporting suppressed be allowed to be printed again.

2. FORMAT

ALW:MDII=a,TG=b;

3. EXPLANATION OF MESSAGE

a = The MDII suppressed on a trunk group. Valid value(s):
2SPDT = Partial dial timeout in the second stage of a traditional 2-stage international outbound call.
2SPST = Permanent signal timeout in the second stage of a traditional 2-stage international outbound call.
2SVCA = Vacant code in the second stage of a traditional 2-stage international outbound call.
ABF = Abandon failure.
ACK = No acknowledgment wink.
ANF = Failure to receive automatic number identification (ANI) digits on incoming LATA trunk.
ANF2 = ANI collected by an operator following a failure to receive ANI digits on an incoming centralized automatic message accounting (CAMA) trunk.
ANI = Time-out waiting for far off-hook from Traffic Service Position System (TSPS) before sending ANI digits.
AST = Position acknowledge seizure signal time-out.
ATO = Time-out waiting for address complete signal.
BAF = Blocking acknowledgment failure.
BLFCA = Blocking a fully coded addressed international outbound call routed to a non-CCS trunk.
CAF = Circuit reset acknowledgment failure.
CAI = Address incomplete received.
CII = Initial address message (IAM) irregularity (incoming).
CKF = Continuity check failure (incoming).
COF = Confusion received (outgoing).
CRA = Circuit reservation message (CRM) timer timed out while waiting for a circuit reservation acknowledgment (CRA) message.
CQR = Circuit query message (CQM) timed out while waiting for a circuit query reply (CQR) message.
CRR = Reset received (incoming).
CTO = Continuity timeout (incoming).
CVN = Vacant national number received (outgoing).
DDF = Delay dial, steady off-hook.
DSN = Delay dial, steady on-hook.
EXD = Extra digit.
EXP = Extra pulse.
FCA = Final closure abandon.
FKP = False key pulse.
FSA = False start abandon.
HGBAF = Hardware group blocking acknowledgment failure.
HGUAF = Hardware group unblocking acknowledgment failure.
IAD = Incomplete address detected (incoming).
IAM = CRA timer timed out while waiting for an IAM.
ICA = Incoming advance.
IDIG = Invalid digit.
KPST = Received call on equal access trunk which contains a KP + ST ANI sequence.
MCA = Misrouted CAMA.
MGBAF = Maintenance group blocking acknowledgment failure.
MGUAF = Maintenance group unblocking acknowledgment failure.
MPS = Misplaced start pulse.
MRF = Message refusal received (outgoing).
MTD = Mutilated digit.
NACK = No ground acknowledgment received on a ground start private facility (FX) trunk.
NKP = No key pulse.
NOANI = Received call on an equal access trunk which contains no ANI information. This call will not be blocked.
ONOA = OSPS nature of address.
OSI = Operator services information.
PAT = Position attached signal time-out.
PDA = Partial dial abandon.
PDT = Partial dial time-out.
PFR = Polarity failure.
PST = Permanent signal time-out.
RLG = Release guard on unstable call (outgoing).
RST = Reset received (outgoing).
SGD = Failure to receive station group designator (SGD).
SSD = No second start dial wink.
TRR = Tip-ring reversal.
TTR = Operator trunk trouble reports.
UAF = Unblocking acknowledgment failure.
UCA = Unauthorized CAMA.
UQL = Unequipped label received (outgoing).
UXS = Unexpected stop.
VCA = Vacant code.
VPA = Voice path assurance timeout (outgoing).
WBF = Incoming wideband call spans facilities or trunk groups.
WSN = Wink start, steady on-hook.
WSR = Wink start, steady off-hook.
XST = Expected stop time-out.

b = Trunk group number.

4. SYSTEM RESPONSE

NA = No acknowledgment. Request has not been acknowledged. It is probable that the request has
been lost.

PF = Printout follows. Request has been accepted. The ALW:MDII output message will follow identifying the results of the request.

5. REFERENCES

Input Message(s):

INH:MDII
OP:MDII

Output Message(s):

ALW:MDII
OP:MDII
REPT:MDII

Output Appendix(es):

APP:MDII

Other Manual(s):
235-070-100 Administration and Engineering Guidelines
235-200-115 CNI Common Channel Signaling
235-200-116 Signaling Gateway Common Channel Signaling
ALW:MDII-B

**Software Release:** 5E16(1) and later
**Command Group:** MAINT
**Application:** 5
**Type:** Input

1. **PURPOSE**

Requests that a specific machine-detected interoffice irregularity (MDII) that has reporting suppressed be allowed to be printed again.

2. **FORMAT**

   ALW:MDII=a,TG=b;

3. **EXPLANATION OF MESSAGE**

   a  = The MDII suppressed on a trunk group. Valid value(s):
   
   2SPDT  = Partial dial timeout in the second stage of a traditional 2-stage international 
             outbound call.
   2SPST  = Permanent signal timeout in the second stage of a traditional 2-stage 
             international outbound call.
   2SVCA  = Vacant code in the second stage of a traditional 2-stage international outbound 
             call.
   ABF    = Abandon failure.
   ACK    = No acknowledgment wink.
   ANF    = Failure to receive automatic number identification (ANI) digits on incoming LATA 
             trunk.
   ANF2   = ANI collected by an operator following a failure to receive ANI digits on an 
             incoming centralized automatic message accounting (CAMA) trunk.
   ANI    = Time-out waiting for far off-hook from traffic service position system (TSPS) 
             before sending ANI digits.
   APMTO  = Application transport message time out.
   AST    = Position acknowledge seizure signal time-out.
   ATO    = Time-out waiting for address complete signal.
   BAF    = Blocking acknowledgment failure.
   BLFCA  = Blocking a fully coded addressed international outbound call routed to a non-CCS 
             trunk.
   CAF    = Circuit reset acknowledgment failure.
   CAI    = Address incomplete received.
   CHRTO  = Connection Hold Release Request Timeout at the Originating Switch.
   CII    = Initial address message (IAM) irregularity (incoming).
   CKF    = Continuity check failure (incoming).
   COP    = Confusion received (outgoing).
   CRA    = Circuit reservation message (CRM) timer timed out while waiting for a circuit 
             reservation acknowledgment (CRA) message.
   CQR    = Circuit query message (CQM) timed out while waiting for a circuit query reply 
             (CQR) message.
   CRR    = Reset received (incoming).
   CTO    = Continuity timeout (incoming).
   CVN    = Vacant national number received (outgoing).
   DDF    = Delay dial, steady off-hook.
DSN = Delay dial, steady on-hook.
EXD = Extra digit.
EXP = Extra pulse.
FCA = Final closure abandon.
FKP = False key pulse.
FSA = False start abandon.
HGBAF = Hardware group blocking acknowledgment failure.
HGUAF = Hardware group unblocking acknowledgment failure.
IAD = Incomplete address detected (incoming).
IAM = CRA timer timed out while waiting for an IAM.
ICA = Incoming advance.
IDIG = Invalid digit.
IPSIG = Internet protocol signal data error.
KPST = Received call on equal access trunk which contains a KP + ST ANI sequence.
MCA = Misrouted CAMA.
MGBAF = Maintenance group blocking acknowledgment failure.
MGUAF = Maintenance group unblocking acknowledgment failure.
MPS = Misplaced start pulse.
MRF = Message refusal received (outgoing).
MTD = Mutilated digit.
NACK = No ground acknowledgment received on a ground start private facility trunk.
NCA = No circuit available.
NKP = No key pulse.
NOANI = Received call on an equal access trunk which contains no ANI information. This call will not be blocked.
ONOCA = OSPS nature of address.
OSI = Operator services information.
PAT = Position attached signal time-out.
PDA = Partial dial abandon.
PDT = Partial dial time-out.
PFR = Polarity failure.
PST = Permanent signal time-out.
RLG = Release guard on unstable call (outgoing).
RST = Reset received (outgoing).
SGD = Failure to receive station group designator (SGD).
SSD = No second start dial wink.
TRR = Tip-ring reversal.
TTR = Operator trunk trouble reports.
UAF = Unblocking acknowledgment failure.
UCA = Unauthorized CAMA.
UQL = Unequipped label received (outgoing).
UXS = Unexpected stop.
VCA = Vacant code.
VPA = Voice path assurance timeout (outgoing).
WBF = Incoming wideband call spans facilities or trunk groups.
WSN = Wink start, steady on-hook.
WSR = Wink start, steady off-hook.
XST = Expected stop time-out.

b = Trunk group number.
4. SYSTEM RESPONSE

NA  = No acknowledgment. Request has not been acknowledged. It is probable that the request has been lost.

PF  = Printout follows. Request has been accepted. Followed by the ALW:MDII output message identifying the results of the request.

5. REFERENCES

Input Message(s):

INH:MDII
OP:MDII

Output Message(s):

ALW:MDII
OP:MDII
REPT:MDII

Output Appendix(es):

APP:MDII

Other Manual(s):

235-070-100  Administration and Engineering Guidelines
235-200-115  CNI Common Channel Signaling
235-200-116  Signaling Gateway Common Channel Signaling
ALW:MISMATCH

**Software Release:** 5E14 and later  
**Command Group:** TRKLN  
**Application:** 5  
**Type:** Input

1. PURPOSE

Requests that line card/network termination (NT) mismatch detection be allowed on integrated services digital network (ISDN) lines equipped with U-cards. To be certain of the results of this message, the following three conditions should be noted.

First, ALW:MISMATCH without the report (REPT) option will only enable mismatch detection. No output will be provided on the receive-only printer (ROP), but the port status of out-of-service (OOS) blocked (BLKD) lines will be updated to OOS BLKD mismatch (MSMTCH) for those lines having mismatches. Second, ALW:MISMATCH,REPT will provide a printout on the ROP of the lines that have mismatches only if the ALW:MISMATCH message is also entered on a separate message line. ALW:MISMATCH,REPT does not turn on mismatch detection. Third, to allow the NT mismatch detection and the NT mismatch report on a switching module (SM), the office parameters for NT mismatch detection and NT mismatch report must also be set to Y, using Recent Change/Verify (RC/V) OFFICE PARAMETERS view 8.1 (refer to MISMATCH DETECTION ENABLE and REPORT on RC/V view 8.1).

2. FORMAT

```
ALW:MISMATCH[,REPT][,SM=a[&b]];
```

3. EXPLANATION OF MESSAGE

**NOTE:** Refer to the Acronym section of the Input Messages manual for the full expansion of acronyms shown in the format.

- **REPT** = Allow the reporting on the ROP of the lines found to have mismatches, provided that mismatch detection has been allowed.
- **a** = SM number or the lower limit of a range of SM numbers. If no SM number or range is specified, all equipped and operational SMs will be allowed.
- **b** = The upper limit of a range of SM numbers.

4. SYSTEM RESPONSE

- **NG** = No good. The message was not recognized or acceptable.
- **PF** = Printout follows. Followed by ALW:MISMATCH output message.

5. REFERENCES

**Input Message(s):**

- INH:MISMATCH

**Output Message(s):**
INH: MISMATCH
ALW: MISMATCH

Output Appendix(es):

APP: PORT-STATUS

Other Manual(s):
235-105-220 Corrective Maintenance

RC/V View(s):

8.1 (OFFICE PARAMETERS)
**ALW:MON**

*Software Release:* 5E14 and later  
*Command Group:* SFTUTIL  
*Application:* 5  
*Type:* Input

**WARNING:** INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. **PURPOSE**

Requests that the operating system for distributed switching (OSDS) monitor actions be allowed.

The ALW:MON messages activates the OSDS monitor by setting the monitor control word a non-zero value. This is the first word of the OShisarray monitor buffer in the administrative module (AM) or the Slihistory monitor buffer in the switching module (SM) or the communications module processor (CMP).

**WARNING:** The user is responsible for any effects on system operation that result from the use of this input message. Know the effects of the message before using it. This message should be used under the guidance of high-level technical support.

**NOTE:** An increase in the processor occupancy is directly related to the number of options specified for the SET:MON-WTD, SET:MON-DATA, SET:MON-FCN, SET:MON-SPEC input messages.

2. **FORMAT**

```
ALW:MON, {AM|SM=a | CMP=b-c};
```

3. **EXPLANATION OF MESSAGE**

**NOTE:** Refer to the Acronym section of the Input Messages manual for the full expansion of acronyms shown in the format.

- \(a\) = Switching module (SM) number.
- \(b\) = Message switch side.
- \(c\) = Communications module processor (CMP) number.

4. **SYSTEM RESPONSE**

- **NG** = No good. Error in format.
- **PF** = Printout follows. Followed by ALW:MON output message.
- **RL** = Retry later. System resource shortage.

5. **REFERENCES**

Input Message(s):

- INH:MON
- SET:MON-DATA
SET:MON-FCN
SET:MON-SPEC
SET:MON-WTD

Output Message(s):

ALW:MON
ALW:NMOUT-A
Software Release: 5E14 - 5E16(1)
Command Group: NMOC
Application: 5
Type: Input

1. PURPOSE
Requests that the printing of output messages stimulated by the remote network management center (RNMC) be allowed.

2. FORMAT
ALW:NMOUT[,TYPE=a];

3. EXPLANATION OF MESSAGE
   a = Message type. The default is to allow all output messages resulting from RNMC actions. Valid value(s):
      CGAP = Call gapping code controls messages.
      DOC = Dynamic overload controls messages.
      SILC = Selective incoming load controls messages.
      SSTR = Service selective trunk reservation controls messages.
      TGC = Manual trunk group controls messages.
      TR = Trunk reservation controls messages.

4. SYSTEM RESPONSE
   NG = No good. The request has been denied. May also include:
       - INVALID REQUEST = This office is not equipped to process the request entered.
       - INVALID TYPE = An invalid message type was entered.
   OK = Good. The input message executed successfully.

5. REFERENCES
Input Message(s):
   INH:NMOUT
   OP:NMOUT

Other Manual(s):
235-190-115  Local and Toll System Features
**1. PURPOSE**

Requests that the printing of output messages stimulated by the remote network management center (RNMC) be allowed.

**2. FORMAT**

```
ALW:NMOUT[,TYPE=a];
```

**3. EXPLANATION OF MESSAGE**

- `a` = Message type. The default is to allow all output messages resulting from RNMC actions. Valid value(s):
  - 
  - `CGAP` = Call gapping code controls messages.
  - `DOC` = Dynamic overload controls messages.
  - `SILC` = Selective incoming load controls messages.
  - `SSTR` = Service selective trunk reservation controls messages.
  - `TGC` = Manual trunk group controls messages.
  - `TR` = Trunk reservation controls messages.
  - `HTR` = Hard-to-reach (HTR) controls messages.

**4. SYSTEM RESPONSE**

- `NG` = No good. The request has been denied. May also include:
  - `INVALID REQUEST` = This office is not equipped to process the request entered.
  - `INVALID TYPE` = An invalid message type was entered.
  - `FEATURE NOT AVAILABLE` = The HTR feature is not available.

- `OK` = Good. The input message executed successfully.

**5. REFERENCES**

Input Message(s):

- `INH:NMOUT`
- `OP:NMOUT`

Other Manual(s):

- `235-190-115 Local and Toll System Features`
ALW:PCTF

Software Release: 5E14 and later
Command Group: TRKLN
Application: 5
Type: Input

1. PURPOSE

Requests that the per-call test failure (PCTF) verbose mode be allowed. Allowing the PCTF verbose mode on a switching module (SM) causes individual REPT:PCTF reports to be generated for every PCTF that occurs on the SM. When the PCTF verbose mode is not allowed (inhibited), only the first and tenth occurrences of a PCTF type on a line is reported.

2. FORMAT

ALW:PCTF,VERBOSE[,SM=a[&&b]];

3. EXPLANATION OF MESSAGE

a = SM number or the lower limit of a range of SM numbers. The default is all equipped SMs.
b = The upper limit of a range of SM numbers.

4. SYSTEM RESPONSE

NG = No good. The message was not recognized or acceptable.
PF = Printout follows. Followed by ALW:PCTF output message.

5. REFERENCES

Input Message(s):

INH:PCTF

Output Message(s):

ALW:PCTF
INH:PCTF
REPT:PCTF

Other Manual(s):
235-105-220 Corrective Maintenance
1. PURPOSE

Requests that the printing of the regularly scheduled 24-hour plant report to the ROP be allowed. The specified part(s) will continue to be automatically printed until inhibited by the INH:PLNT24 input message.

By default, PART24 is inhibited for the ROP and ALW:PLNT24 and "ALL" will not cause PART24 to be allowed for the ROP. PART24 can only be allowed for the ROP by entering ALW:PLNT24;PART24.

2. FORMAT

ALW:PLNT24:{a|ALL};

3. EXPLANATION OF MESSAGE

ALL = Allow all parts of the 24-hour plant report (except PART24).

a = Name of report part to be allowed. Valid value(s):
PART1 = Service measurements.
PART2 = Equipment performance.
PART3 = Performance measurements.
PART4 = Remote switching module (RSM) maintenance service and performance.
PART5 = Trunk error analysis.
PART6 = Interlata carrier measurements.
PART7 = Network call denial.
PART8 = RSM cluster measurements.
PART9 = Integrated services digital network (ISDN) packet switching office totals.
PART10 = Operator Services Position System (OSPS) processors counts.
PART11 = ISDN Office totals.
PART13 = OSPS real-time rating query measures.
PART14 = OSPS facility administration measures.
PART15 = OSPS measurements.
PART16 = OSPS interflow measures.
PART17 = OSPS line information data base (LIDB) measures.
PART18 = OSPS customer account services (CAS).
PART19 = Action control point (ACP) for software defined networks.
PART21 = Leased network action point.
PART22 = OSPS intercept measures.
PART23 = OSPS customer account services release 3 signaling measures.
PART24 = Machine detected inter-office irregularity (MDII) trunk group measurements.
PART25 = ISDN user part (ISUP) office totals.
PART26 = DS1 measurements.
PART27 = Static proportionate bidding (PB) measurements.
PART28 = OSPS international credit card validation (ICCV) measures by foreign database.
PART29 = OSPS line applications for consumers (LAC) signaling measures.
PART30 = OSPS originating line number screening (OLNS) measures.
PART36 = Signaling link performance.
4. SYSTEM RESPONSE

NG = No good. The request was made during the automatic preparation of the report. The OP:PLNT24-NOT output message will follow. May also include:
- DATA NOT AVAILABLE AT THIS TIME = Report is being generated and, therefore, manual requests are locked out, or the report has not generated since an initialization.

OK = Good. The part(s) was/were allowed.

5. REFERENCES

Input Message(s):

INH:PLNT24
OP:PLNT24
OP:ST-PLNT24

Output Message(s):

OP:PLNT24-ND
OP:PLNT24-PT01A
OP:PLNT24-PT01B
OP:PLNT24-PT02A
OP:PLNT24-PT02B
OP:PLNT24-PT03
OP:PLNT24-PT04
OP:PLNT24-PT05
OP:PLNT24-PT06
OP:PLNT24-PT07
OP:PLNT24-PT08
OP:PLNT24-PT09
OP:PLNT24-PT10
OP:PLNT24-PT10B
OP:PLNT24-PT11
OP:PLNT24-PT13
OP:PLNT24-PT14
OP:PLNT24-PT15
OP:PLNT24-PT16
OP:PLNT24-PT17
OP:PLNT24-PT18
OP:PLNT24-PT19
OP:PLNT24-PT21
OP:PLNT24-PT22
OP:PLNT24-PT23
OP:PLNT24-PT24
OP:PLNT24-PT25
OP:PLNT24-PT26
OP:PLNT24-PT27
OP:PLNT24-PT28
OP:PLNT24-PT29
OP:PLNT24-PT30
OP:PLNT24-PT36
OP:ST-PLNT24

Other Manual(s):
235-070-100  Administration and Engineering Guidelines
ALW:PLNT24-B

Software Release: 5E17(1) and later
Command Group: MEAS
Application: 5
Type: Input

1. PURPOSE

Requests that the printing of the regularly scheduled 24-hour plant report to the ROP be allowed. The specified part(s) will continue to be automatically printed until inhibited by the INH:PLNT24 input message.

By default, PART24 is inhibited for the ROP and ALW:PLNT24 and "ALL" will not cause PART24 to be allowed for the ROP. PART24 can only be allowed for the ROP by entering ALW:PLNT24;PART24.

2. FORMAT

ALW:PLNT24:{a|ALL};

3. EXPLANATION OF MESSAGE

ALL = Allow all parts of the 24-hour plant report (except PART24).

a = Name of report part to be allowed. Valid value(s):

PART1 = Service measurements.
PART2 = Equipment performance.
PART3 = Performance measurements.
PART4 = Remote switching module (RSM) maintenance service and performance.
PART5 = Trunk error analysis.
PART6 = Interlata carrier measurements.
PART7 = Network call denial.
PART8 = RSM cluster measurements.
PART9 = Integrated services digital network (ISDN) packet switching office totals.
PART10 = Operator Services Position System (OSPS) processors counts.
PART11 = ISDN Office totals.
PART13 = OSPS real-time rating query measures.
PART14 = OSPS facility administration measures.
PART15 = OSPS measurements.
PART16 = OSPS interflow measures.
PART17 = OSPS line information database (LIDB) measures.
PART18 = OSPS customer account services (CAS).
PART19 = Action control point (ACP) for software defined networks.
PART21 = Leased network action point.
PART22 = OSPS intercept measures.
PART23 = OSPS customer account services release 3 signaling measures.
PART24 = Machine detected inter-office irregularity (MDII) trunk group measurements.
PART25 = ISDN user part (ISUP) office totals.
PART26 = DS1 measurements.
PART27 = Static proportionate bidding (PB) measurements.
PART28 = OSPS international credit card validation (ICCV) measures by foreign database.
PART29 = OSPS line applications for consumers (LAC) signaling measures.
PART30 = OSPS originating line number screening (OLNS) measures.
PART36 = Signaling link performance.
PART37 = ATM quality of service.
PART38 = ATM quality of service for PSU to PSU connection.

4. SYSTEM RESPONSE

NG = No good. The request was made during the automatic preparation of the report. The OP:PLNT24-NOT output message will follow. May also include:
   - DATA NOT AVAILABLE AT THIS TIME = Report is being generated and, therefore, manual requests are locked out, or the report has not generated since an initialization.

OK = Good. The part(s) was/were allowed.

5. REFERENCES

Input Message(s):
   INH:PLNT24
   OP:PLNT24
   OP:ST-PLNT24

Output Message(s):
   OP:PLNT24-ND
   OP:PLNT24-PT01A
   OP:PLNT24-PT01B
   OP:PLNT24-PT02A
   OP:PLNT24-PT02B
   OP:PLNT24-PT03
   OP:PLNT24-PT04
   OP:PLNT24-PT05
   OP:PLNT24-PT06
   OP:PLNT24-PT07
   OP:PLNT24-PT08
   OP:PLNT24-PT09
   OP:PLNT24-PT10
   OP:PLNT24-PT10B
   OP:PLNT24-PT11
   OP:PLNT24-PT13
   OP:PLNT24-PT14
   OP:PLNT24-PT15
   OP:PLNT24-PT16
   OP:PLNT24-PT17
   OP:PLNT24-PT18
   OP:PLNT24-PT19
   OP:PLNT24-PT21
   OP:PLNT24-PT22
   OP:PLNT24-PT23
   OP:PLNT24-PT24
   OP:PLNT24-PT25
   OP:PLNT24-PT26
   OP:PLNT24-PT27
Other Manual(s):
235-070-100  Administration and Engineering Guidelines
ALW:PLNTHR
Software Release: 5E14 and later
Command Group: MEAS
Application: 5
Type: Input

1. PURPOSE
Requests that the printing of the hourly plant report be allowed. The report will be output until it is inhibited using the INH:PLNTHR input message.

2. FORMAT
ALW:PLNTHR;

3. EXPLANATION OF MESSAGE
No variables.

4. SYSTEM RESPONSE
NG = No good. May also include:
   - PRINT ALLOCATION EXCEEDED = The message allocation for this office has reached its limit.
     The requested report has not been allowed.

OK = Good. The request was accepted and completed. May also include:
   - LPS SET TO DISCARD = The report has been allowed, but may not be seen because the
     log/print status is set to discard this class of message.

5. REFERENCES
Input Message(s):
   CHG:LPS-MSGCLS
   INH:PLNTHR
   OP:MEASTAT
   OP:PLNTHR

Output Message(s):
   OP:MEASTAT-PRNT

Other Manual(s):
235-070-100   Administration and Engineering Guidelines
ALW:PM

Software Release: 5E17(1) and later
Command Group: MEAS
Application: 5
Type: Input

1. PURPOSE
Requests that performance monitoring (PM) session be allowed.

2. FORMAT

[1] ALW:PM,SESTYPE=a,SESID=b[&c];

[2] ALW:PM,SESTYPE=a,PSALNK=d-e-f;

3. EXPLANATION OF MESSAGE

a = Type of performance monitoring session.
b = Session ID - lower limit session ID in a range of session IDs. The minimum session ID number is 1.
c = Upper limit session ID in a range of session IDs. The maximum session ID number is 1024.
d = Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
e = PSU number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
f = ATM link number. Range is 1-10.

4. SYSTEM RESPONSE

NG = No good. The request has been denied. The message form is valid but the request conflicts with current equipage or status.

PF = Printout follows. Followed by the ALW:PM output message.

RL = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

Input Message(s):

INH:PM

Output Message(s):

ALW:PM
Input Appendix(es):

APP : RANGES

MCC Display Page(s):
1187,y,z    PSU/ATM LINKS STATUS (where y=PSU number and z=SM number)
ALW:PSLT

Software Release: 5E14 and later
Command Group: CCS
Application: 5
Type: Input

1. PURPOSE
Requests the allow for the periodic signaling link test (PSLT).

2. FORMAT
ALW:CCS,PSLT,SM=a, [SET=b][MEMBER=c];

3. EXPLANATION OF MESSAGE

a  = CCS global switching module (GSM) number.
b  = Link set number (SET). Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
c  = Link set member (MEMBER). Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

PF  = Printout follows. Followed by the ALW:CCS,PSLT output message. Shall indicate the success or failure of the allow request.

5. REFERENCES

Other Manual(s):
235-200-115  CNI Common Channel Signaling
235-200-115  Signaling Gateway Common Channel Signaling

Input Appendix(es):

APP:RANGES
ALW:PUMP

**Software Release:** 5E14 and later  
**Command Group:** SYSRCVY  
**Application:** 5  
**Type:** Input

1. **PURPOSE**

Requests that automatic pump of one or more switching modules (SMs) or a selected communication module processor (CMP) be allowed on a major initialization (selective initialization or full initialization). This message cancels the effect of the INH:PUMP-SM input message.

2. **FORMAT**

\[
\text{ALW:PUMP}, \{\text{CMP}=a | \text{SM}=b \& \& c\} [, \text{LSM}] [, \text{HSM}] [, \text{RSM}] [, \text{ORM}] [, \text{TRM}] ;
\]

3. **EXPLANATION OF MESSAGE**

**Note:** Refer to the Acronym section of the Input Messages manual for the full expansion of acronyms shown in the format.

- \(a\) = CMP number.
- \(b\) = SM number, or lower limit of a range of SM numbers.
- \(c\) = Upper limit of the range of SM numbers.

4. **SYSTEM RESPONSE**

- **NG** = No good. The message was not accepted because an illegal SM number or invalid range/type combination was specified. The message was not accepted because an illegal CMP number was specified.
- **OK** = Good. The message was accepted and the action completed.

5. **REFERENCES**

**Input Message(s):**

\[\text{INH:PUMP-SM}\]

**Other Manual(s):**

- 235-105-220 *Corrective Maintenance*
- 235-105-250 *System Recovery*

**MCC Display Page(s):**

- 1800 (SM INH & RCVRY CNTL)
- 1850/1851 (CMP INH & RCVRY CNTL)
**ALW:RC**

**Software Release:** 5E14 and later  
**Command Group:** ODD  
**Application:** 5  
**Type:** Input

1. **PURPOSE**

Requests that office-dependent data (ODD) recent changes (RCs) be allowed into the system if they were previously inhibited.

2. **FORMAT**

   ALW:RC;

3. **EXPLANATION OF MESSAGE**

   No variables.

4. **SYSTEM RESPONSE**

   PF = Printout follows.

5. **REFERENCES**

   Input Message(s):

   - ALW:CORC  
   - INH:CORC  
   - INH:RC
ALW:RCDLY
Software Release: 5E14 and later
Command Group: RCV
Application: 5
Type: Input

1. PURPOSE
Requests that telephone activations of recent change delayed messages (RCDMs) be allowed in the system if they were previously inhibited.

2. FORMAT
ALW:RCDLY;

3. EXPLANATION OF MESSAGE
No variables.

4. SYSTEM RESPONSE
OK = Good. The request was accepted.

5. REFERENCES
Input Message(s):

   INH:RCDLY
   OP:RCDLY

Output Message(s):

   REPT:RCDLY

Other Manual(s):

   Where (x) is the release-specific version of the specified manual.
   235-118-251 Recent Change Procedures
   235-118-25x Recent Change Reference
ALW:RCLOG

Software Release: 5E14 and later
Command Group: MAINT
Application: 5
Type: Input

1. PURPOSE

Requests that logging of recent changes be allowed for all processors. Customer-originated recent changes are not affected.

2. FORMAT

ALW:RCLOG;

3. EXPLANATION OF MESSAGE

No variables.

4. SYSTEM RESPONSE

NG  = No good. The input message is not valid
OK  = Good. The request was accepted.
RL  = Retry later. Cannot service request at this time because RC logging control is either too busy or not alive. The logging process will be recreated immediately if it is dead.

5. REFERENCES

Input Message(s):

ALW:CORCLOG-SM
ALW:REORD-SM

Software Release: 5E14 and later
Command Group: MEAS
Application: 5
Type: Input

1. PURPOSE

Requests that additional information on calls that are routed to reorder be collected for a switching module (SM) or a range of SMs, and the information be reported on the receive-only printer (ROP) after 15 minutes have elapsed or information for the first 30 reorder events has been collected, whichever occurs first.

2. FORMAT

ALW:REORD, SM=a [ & & b ];

3. EXPLANATION OF MESSAGE

a = SM number, or the lower limit in a range of SM numbers.
b = Upper limit of a range of SM numbers.

4. SYSTEM RESPONSE

NG = No good. The request was denied because the requested feature is already active.
OK = Good. Request was accepted.
RL = Retry later. Reorder timer is currently unavailable.

5. REFERENCES

Input Message(s):
INH:REORD

Output Message(s):
REPT:REORD

Other Manual(s):
235-070-100 Administration and Engineering Guidelines
ALW:REORG

Software Release: 5E14 and later
Command Group: ODD
Application: 5
Type: Input

1. PURPOSE

To allow automatic reorganization of all data base relations listed on the REPT:REORG output message. This message will allow automatic reorganizations triggered by the SET:REORG scheduling mechanism and on-demand reorganizations triggered by the EXC:REORG input message.

2. FORMAT

ALW:REORG;

3. EXPLANATION OF MESSAGE

No variables.

4. SYSTEM RESPONSE

OK = Good. The request was accepted.

5. REFERENCES

Input Message(s):

   EXC:REORG
   INH:REORG
   SET:REORG

Output Message(s):

   REPT:REORG

Other Manual(s):
235-105-220 Corrective Maintenance
ALW:REX-CM-SM

Software Release: 5E14 and later
Command Group: MAINT
Application: 5
Type: Input

1. PURPOSE

Allows either one or all valid test types of routine exercise (REX) of the hardware in the communication module (CM) and all switching modules (SMs) or in the CM or in a range of SMs.

2. FORMAT

ALW:REX [,CM] [,SM=a[&b]] [,c];

3. EXPLANATION OF MESSAGE

a = SM number, or lower limit of a range of SM numbers.

b = Upper limit of a range of SM numbers.

c = REX test type to be allowed (default is to allow all three test types). Valid value(s):

DGN = Allow diagnostic exercise.
ELS = Allow electronic loop segregation tests. This is not a valid test type for the CM.
FAB = Allow fabric exerciser tests of grids. This is not a valid test type for the CM.

NOTE: If neither CM nor SM is specified, the default is to exercise hardware in the CM and all SMs.

4. SYSTEM RESPONSE

NG = No good. The request was not a valid entry.
OK = Good. Request is valid and accepted.
RL = Retry later. SM is in an abnormal state. The request cannot be executed now.

5. REFERENCES

Input Message(s):

OP:REX-CM-SM

Output Message(s):

OP:REXINH

MCC Display Page(s):

1280 (REX STATUS (SM)))
1290 (REX STATUS (CM))
ALW:REX-UNIT-A

Software Release: 5E14 only
Command Group: MAINT
Application: 5
Type: Input

1. PURPOSE

Requests that the scheduling of a unit for routine exercise (REX) be allowed in the communication module (CM) or in a switching module (SM). This applies only to diagnostic (DGN) tests.

2. FORMAT

ALW:REX{,CM[a],SM=a,b[=c]};

3. EXPLANATION OF MESSAGE

a    = SM number.
b    = The SM unit type to be allowed. DGN tests are the only test types that may be inhibited on a unit basis. Valid value(s):
   ASC    = Alarm service circuit.
   BTSR   = Bootstrapper circuit.
   DCLU   = Digital carrier line unit.
   DCTU   = Directly connected test unit.
   DLTU   = Digital line and trunk unit.
   DNUS   = Digital networking unit - synchronous optical network (SONET) (DNU-S).
   GDSF   = Global digital services function.
   GDSU   = Global digital service unit.
   IDCU   = Integrated digital carrier unit.
   ISLU   = Integrated services line unit.
   ISTF   = Integrated services test facility.
   LDSU   = Local digital service unit.
   LU     = Line unit.
   MCTSI  = Module controller/time slot interchanger.
   MSU    = Metallic service unit.
   MTIB   = Metallic test interface bus.
   PSU    = Packet switching unit.
   RAF    = Recorded announcement frame.
   RAU    = Remote answering unit.
   RCLK   = Remote clock.
   RLI    = Remote line interface.
   SAS    = Service announcement system.
   TU     = Trunk unit.

   c    = Unit number.

d    = The CM unit type to be inhibited. Valid value(s):
   MSGS    = Message switch.
   ONTC    = Office network timing complex.
4. SYSTEM RESPONSE

NG = No good. The request was not a valid entry.
OK = Good. Request is valid and accepted.
RL = Retry later. SM is in an abnormal state. The request cannot be executed now.

5. REFERENCES

Input Message(s):

INH:REX-CM-SM
INH:REX-UNIT
OP:REXINH

Output Message(s):

OP:REXINH

Other Manual(s):
235-105-220 Corrective Maintenance

MCC Display Page(s):

1280 [REX STATUS (SM)]
1290 [REX STATUS (CM)]
ALW:REX-UNIT-B

Software Release: 5E15 and later
Command Group: MAINT
Application: 5
Type: Input

1. PURPOSE
Requests that the scheduling of a unit for routine exercise (REX) be allowed in the communication module (CM) or in a switching module (SM). This applies only to diagnostic (DGN) tests.

2. FORMAT

ALW:REX{,CM[,{d=c}]},SM=a,b[{c}];

3. EXPLANATION OF MESSAGE

a = SM number.

b = The SM unit type to be allowed. DGN tests are the only test types that may be inhibited on a unit basis. Valid value(s):
- AIU = Access Interface Unit.
- ASC = Alarm service circuit.
- BTSR = Bootstrapper circuit.
- DCLU = Digital carrier line unit.
- DCTU = Directly connected test unit.
- DLTU = Digital line and trunk unit.
- DNUS = Digital networking unit - synchronous optical network (DNU-S).
- GDSF = Global digital services function.
- GDSU = Global digital service unit.
- IDCU = Integrated digital carrier unit.
- ISLU = Integrated services line unit.
- ISTF = Integrated services test facility.
- LDSU = Local digital service unit.
- LU = Line unit.
- MCTSI = Module controller/time slot interchanger.
- MSU = Metallic service unit.
- MTIB = Metallic test interface bus.
- PSU = Packet switching unit.
- RAF = Recorded announcement frame.
- RAU = Remote answering unit.
- RCLK = Remote clock.
- RLI = Remote line interface.
- SAS = Service announcement system.
- TU = Trunk unit.
- PLTU = Peripheral Line and Trunk Unit.
- IWG = Inter-Working Gateway.

c = Unit number.

d = The CM unit type to be inhibited. Valid value(s):
- MSGS = Message switch.
ONTC  = Office network timing complex.

4. SYSTEM RESPONSE

NG  = No good. The request was not a valid entry.
OK  = Good. Request is valid and accepted.
RL  = Retry later. SM is in an abnormal state. The request cannot be executed now.

5. REFERENCES

Input Message(s):

INH:REX-CM-SM
INH:REX-UNIT
OP:REXINH

Output Message(s):

OP:REXINH

Other Manual(s):
235-105-220  Corrective Maintenance

MCC Display Page(s):
1280  REX STATUS (SM)
1290  REX STATUS (CM)
ALW:REX

Software Release: 5E14 and later
Command Group: MAINT
Application: 5,3B
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Requests that routine exercises (REX) be allowed by clearing individual routine exercise inhibits for one or more hardware communities by clearing the REX temporary inhibit(s). A hardware community consists of a major device controller and its associated subdevices. If a hardware community has REX permanently inhibited, its REX temporary inhibit is not available.

WARNING: It may be desirable to keep REX inhibited on some units. Unless units are specified with this message, all administrative module (AM) controllers including the ring peripheral controller nodes (RPCNs) will be allowed for REX. Because of the configuration of the common network interface (CNI) ring, RPCNs should never be allowed for REX. Allowing REX on RPCNs may lead to service degradation or interruption.

2. FORMAT

ALW:REX[,a [=b]];

3. EXPLANATION OF MESSAGE

ALL = Clear the temporary REX inhibits for all major community controllers that are not permanently inhibited from REX.

a = Unit name of a major community controller. Applications may add additional major controllers which may be allowed by this input message. Valid value(s):
    CU = Control unit.
    DCI = Dual serial channel/computer interconnect.
    IOP = Input/output processor.

NOTE: If not specified, then routine exercises will be allowed for all AM controllers.

b = Unit number. Refer to the APP:MEM-NUM-UNIT appendix in the Appendixes section of the Input Messages manual. If not specified, then all controllers with the specified unit name are allowed.

4. SYSTEM RESPONSE

NG = No good. Routing exercises are permanently inhibited for the unit specified or for all the units specified.

OK = Good. Routine exercises are allowed for the units specified or for at least one of the units specified.

PF = Printout follows. Followed by an ALW:REX output message.
= Retry later. The database manager or a database record could not be opened. Try again at a later time. If this persists, refer to the TECHNICAL ASSISTANCE portion of the INTRODUCTION section of the Input Messages manual.

5. REFERENCES

Input Message(s):

ALW:DMQ
INH:DMQ
INH:REX
OP:DMQ
OP:REXINH

Output Message(s):

ALW:REX
OP:DMQ
OP:REXINH

Input Appendix(es):

APP:MEM-NUM-UNIT

Other Manual(s):

235-105-220  Corrective Maintenance
ALW:RPC

Software Release: 5E14 and later
Command Group: TRKLN
Application: 5
Type: Input

1. PURPOSE

The purpose of this input message is to allow routine port conditioning. Port conditioning is the process of
determining the status of a port, and depending on the port type, setting the hardware and scanning registers to
reflect that status.

2. FORMAT

ALW:RPC[,SM=a[&b]]; 

3. EXPLANATION OF MESSAGE

a = SM number or the lower limit of a range of SMs. Refer to the APP:RANGES appendix in the
Appendixes section of the Input Messages manual.

b = Upper limit of a range of SMs. Refer to the APP:RANGES appendix in the Appendixes section of
the Input Messages manual.

NOTE: If no SM number or range is specified, all equipped and operational SMs will be allowed.

4. SYSTEM RESPONSE

PF = Printout follows. The request has been accepted and the ALW:RPC output message will follow.

NG = No good. The input message was not recognized or acceptable.

5. REFERENCES

Input Message(s):

INH:RPC

Output Message(s):

ALW:RPC

Input Appendix(es):

APP:RANGES
ALW:RT-FAC

Software Release: 5E14 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Requests that protection (PROT) line switch requests be allowed to be performed on the specified remote terminal (RT) digital signal level one (DS1) facility (FAC) or requests that a DS1 be allowed to be released from protection. This message is applicable for RTs terminating on an integrated digital carrier unit (IDCU) or a digital carrier line unit (DCLU).

2. FORMAT

ALW:RT,FAC=a-b,{PROT|RELEASE};

3. EXPLANATION OF MESSAGE

PROT = Allow switching from the specified DS1 FAC to the protection line (for use with the DCLU or the IDCU).

RELEASE = Allow a DS1 to be released from protection (for use with the IDCU only).

a = Site identification number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

b = RT DS1 FAC number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

NG = No good. The request has been denied. The message is valid but the request conflicts with current status.

PF = Printout follows. An ALW:RT-FAC output message will follow.

RL = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

Input Message(s):

INH:RT-FAC

Output Message(s):

ALW:RT-FAC

Input Appendix(es):

APP:RANGES
Other Manual(s):
235-105-220  Corrective Maintenance
235-105-110  System Maintenance Requirements and Tools

MCC Display Page(s):
187x (IDCU FACILITY)
188xyy (IDCU REMOTE TERMINAL)
1. PURPOSE

Requests that the printing of remote terminal (RT) report messages be allowed at the Master Control Center (MCC) and the Switching Control Center (SCC). This message is applicable for RTs terminating on an Integrated Digital Carrier Unit (IDCU) or Digital Networking Unit SONET (DNU-S).

2. FORMAT

ALW:RT-PROV-REPT,{SM=a|SID=b|IDCURT|DNUSRT}=a-c-d;

3. EXPLANATION OF MESSAGE

a = Switching module (SM) number.
b = Site identification (SID) number of the RT.
c = Unit number.
d = Local RT (LRT) number.

4. SYSTEM RESPONSE

OK = Good. The request was accepted and the requested action was completed.
NG = No good. The request has been denied. The message is valid but the request conflicts with current status.

5. REFERENCES

Input Message(s):

INH:RT-REPT
OP:RT-REPT

Output Message(s):

OP:RT-REPT

Other Manual(s):

235-105-220 Corrective Maintenance
235-105-110 System Maintenance Requirements and Tools

MCC Display Page(s):

188xyy (IDCU/DNU-S REMOTE TERMINAL)
ALW:RT-REPT

Software Release: 5E14 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Requests that the printing of remote terminal (RT) report messages at the Master Control Center (MCC) and the Switching Control Center (SCC) be allowed. This message is applicable for RTs terminating on an integrated digital carrier unit (IDCU) or a digital carrier line unit (DCLU) or a digital networking unit - synchronous optical network (DNU-S).

2. FORMAT

ALW:RT,REPT;

3. EXPLANATION OF MESSAGE

No variables.

4. SYSTEM RESPONSE

OK = Good. The request was accepted and the requested action was completed.

NG = No good. The request has been denied. The message is valid but the request conflicts with current status.

5. REFERENCES

Input Message(s):

INH:RT-REPT
OP:RT-REPT

Output Message(s):

OP:RT-REPT

Other Manual(s):
235-105-220 Corrective Maintenance
235-105-110 System Maintenance Requirements and Tools

MCC Display Page(s):
1880,x,yy (IDCU REMOTE TERMINAL)
1660,xxxx (TR303 REMOTE TERMINAL)
**ALW:RTMTBOVR**

*Software Release:* 5E14 and later  
*Command Group:* TRKLN  
*Application:* 5  
*Type:* Input

### 1. PURPOSE

Requests that metallic setup failure override be allowed when the metallic test bus (MTB) is found to be open between the test bus control unit (TBCU) and the remote terminal (RT). If the MTB is really open and override is allowed, metallic setup will succeed. The system default is to allow metallic setup failure override.

This message will set an override flag in a switching module (SM) to the allow state. The flag can be set in one SM or in all SMs. If individual SMs are set differently, be aware that if the modular metallic service unit (MMSU) and RT are in different SMs a remote read of the flag stored in the RT SM is done from the MMSU SM. If the remote read fails, the default of the override flag will be that stored in the MMSU SM.

### 2. FORMAT

```
ALW:RTMTBOVR [,SM=a[&b]];
```

### 3. EXPLANATION OF MESSAGE

**NOTE:** Refer to the Acronym section of the Input Messages manual for the full expansion of acronyms shown in the format.

- **a** = SM number, or the lower limit of a range of SM numbers. If no SM number or range is specified, all equipped and operational SMs will be allowed.
- **b** = The upper limit of a range of SM numbers.

### 4. SYSTEM RESPONSE

- **NG** = No good. The message was not recognized or acceptable.
- **PF** = Printout follows. The request has been accepted and a ALW:RTMTBOVR message will follow.

### 5. REFERENCES

**Input Message(s):**

```
ALW:RTMTBPRT
INH:RTMTBOVR
INH:RTMTBPRT
```

**Output Message(s):**

```
ALW:RTMTBOVR
ALW:RTMTBPRT
INH:RTMTBOVR
INH:RTMTBPRT
```
ALW:RTMTBPRT

Software Release: 5E14 and later
Command Group: TRKLN
Application: 5
Type: Input

1. PURPOSE

Requests that the printing of the REPRTRMTBSID message be allowed when the metallic test bus (MTB) fails the closed diode protocol test during metallic setup to a remote terminal (RT).

The system default is to allow the printing of this message. This can be inhibited with the input message INH:RTMTBPRT. By inhibiting the printing of this message, the ability to see the cause of metallic setup failure will be lost. If, however, metallic setup override is allowed with the message ALW:RTMTBOVR, then it might be desirable not to have the message print. Consider carefully what configuration is desired in the office.

This message will set a print flag in a switching module (SM) to the allow state. The flag can be set in one or in all SMs. If individual SMs are set differently, be aware that if the modular metallic service unit (MMSU) and RT are in different SMs a remote read of the flag stored in the RT SM is done from the MMSU SM. If the remote read fails, the default of the print flag will be that stored in the MMSU SM.

2. FORMAT

ALW:RTMTBPRT[, SM=a[&&b]]; 

3. EXPLANATION OF MESSAGE

NOTE: Refer to the Acronym section of the Input Messages manual for the full expansion of acronyms shown in the format.

a = SM number, or the lower limit of a range of SM numbers. If no SM number or range is specified, all equipped and operational SMs will be allowed.

b = The upper limit of a range of SM numbers.

4. SYSTEM RESPONSE

NG = No good. The message was not recognized or acceptable.

PF = Printout follows. The request has been accepted and an ALW:RTMTBPRT message will follow.

5. REFERENCES

Input Message(s):

ALW:RTMTBOVR
INH:RTMTBOVR
INH:RTMTBPRT

Output Message(s):

ALW:RTMTBOVR
ALW:RTMTBPRT
ALW:RTRACK

Software Release: 5E14 and later
Command Group: CCS
Application: CNI
Type: Input

1. PURPOSE

Requests that entry into the ring tracker mode be allowed; a prior INH:RTRACK input message has inhibited ring tracker mode.

2. FORMAT

ALW:RTRACK;

3. EXPLANATION OF MESSAGE

No variables.

4. SYSTEM RESPONSE

IP = In progress.
NG = No good. The request was not accepted; reason will follow.
PF = Printout follows. Followed by the ALW:RTRACK output message.
RL = Retry Later

5. REFERENCES

Input Message(s):

EXC:RTRACK
INH:RTRACK
OP:RTRACK
STOP:RTRACK

Output Message(s):

ALW:RTRACK
EXC:RTRACK
INH:RTRACK
OP:RTRACK
REPT:RING-CFR
STOP:RTRACK
ALW:RUTIL

**Software Release:** 5E12 and later  
**Command Group:** SFTUTIL  
**Application:** 5  
**Type:** Input

**WARNING:** INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. **PURPOSE**

Requests an allow of all break points in the specified common network interface (CNI) node. The user is informed about the result of this operation. When this break point has fired MHIT times it is automatically inhibited (disabled).

**WARNING:** Incorrect use of this input message may interrupt operation of a node on the CNI ring or the whole CNI ring.

2. **FORMAT**

```
ALW:RUTIL=a-b,AP[:MHIT=c];
```

3. **EXPLANATION OF MESSAGE**

**NOTE:** Refer to the Acronym section of the Input Messages manual for the full expansion of acronyms shown in the format.

- **a**  
  = Group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

- **b**  
  = Member number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

- **c**  
  = Maximum number of hits to be allowed for that break point. If not specified MHIT is set to 10.

4. **SYSTEM RESPONSE**

**PF**  
= Printout follows. Followed by ALW:RUTIL output message.

5. **REFERENCES**

Input Message(s):

- **ALW:RUTILFLAG**
- **CLR:RUTIL**
- **CLR:RUTILFLAG**
- **DUMP:RUTIL**
- **INH:RUTIL**
- **INH:RUTILFLAG**
- **LOAD:RUTIL**
- **OP:RUTIL**
- **OP:RUTILFLAG**
- **WHEN:RUTIL**
Output Message(s):

ALW: RUTILFLAG
ALW: RUTIL
CLR: RUTIL
CLR: RUTILFLAG
DUMP: RUTIL
INH: RUTIL
INH: RUTILFLAG
LOAD: RUTIL
OP: RUTIL
OP: RUTILFLAG
REPT: RUTIL
WHEN: RUTIL

Input Appendix(es):

APP: RANGES

Other Manual(s):

235-105-110 System Maintenance Requirements and Tools
ALW:RUTILFLAG

Software Release: 5E12 and later
Command Group: SFTUTIL
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Requests an allow of the specified break point in the specified common network interface (CNI) ring node. The user is informed about the result of this operation. When this break point has fired MHIT times, it automatically becomes inhibited (disabled).

WARNING: Incorrect use of this input message may interrupt operation of a node on the CNI ring or the whole CNI ring.

2. FORMAT

ALW:RUTILFLAG=a-b,AP:BP=c[:MHIT=d];

3. EXPLANATION OF MESSAGE

NOTE: Refer to the Acronym section of the Input Messages manual for the full expansion of acronyms shown in the format.

a = Group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

b = Member number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

c = Specific break point to be allowed.

d = Maximum number of hits to be allowed for that break point. If not specified MHIT is set to 10.

4. SYSTEM RESPONSE

PF = Printout follows. Followed by the ALW:RUTILFLAG output message.

5. REFERENCES

Input Message(s):

ALW:RUTIL
CLR:RUTIL
CLR:RUTILFLAG
DUMP:RUTIL
INH:RUTIL
INH:RUTILFLAG
LOAD:RUTIL
OP: RUTIL
OP: RUTILFLAG
WHEN: RUTIL

Output Message(s):

ALW: RUTIL
ALW: RUTILFLAG
CLR: RUTIL
CLR: RUTILFLAG
DUMP: RUTIL
INH: RUTIL
INH: RUTILFLAG
LOAD: RUTIL
OP: RUTIL
OP: RUTILFLAG
REPT: RUTIL
WHEN: RUTIL

Input Appendix(es):

APP: RANGES

Other Manual(s):
235-105-110  System Maintenance Requirements and Tools
ALW:S7ACK

Software Release: 5E15 and later
Command Group: TRK
Application: 5
Type: Input

1. PURPOSE

Allows the printing of the ISUP/BICC abnormal acknowledgement output message.

The abnormal acknowledgement output message is allowed following a system initialization.

2. FORMAT

ALW:S7ACK;

3. EXPLANATION OF MESSAGE

No variables.

4. SYSTEM RESPONSE

PF  = Printout follows. Followed by the ALW:S7ACK output message.
OK  = Request accepted. May also include:
      - ABNORMAL ACK REPT ALLREADY ALLOWED

5. REFERENCES

Input Message(s):

   INH:S7ACK
   OP:S7ACK

Output Message(s):

   INH:S7ACK
   OP:S7ACK
   REPT:ABNORMAL-AT
ALW:S7RPT

**Software Release:** 5E15 and later  
**Command Group:** CCS  
**Application:** 5  
**Type:** Input

1. **PURPOSE**

This command allows viewing of CCS MTCE messages.

It allows observing the reception and sending of any reset, blocking, unblocking, or related acknowledgement message; and any continuity, circuit query and circuit validation message.

It should be used with SET:S7RPT and EXC:S7RPT to start viewing CCSMTCE messages. S7RPT observations will only be active for an hour after the initial ALW:S7RPT command was entered. By entering additional ALW:S7RPT commands, the current observation interval can be extended, thus preserving the current settings. A warning output report will be given 10 minutes before an observation expires. If S7RPT observations are still active one hour after the last ALW:S7RPT command was entered, then:
- All S7RPT observation scopes and types will be cleared.
- All S7RPT observation sessions will be terminated.

Should system operation be impacted by this message:
- The input message STP:S7RPT, can be used to halt observation on a specific scope.
- The input message SET:S7RPT, can be used to halt observation on a specific type.
- The input message INH:S7RPT, can be used to halt observation on all scopes and turn off the ALW command.

Requesting this message may cause large amounts of data to be printed on the receive-only-printer (ROP).

All observation output reports are logged into a daily log file by request.

2. **FORMAT**

ALW:S7RPT;

3. **EXPLANATION OF MESSAGE**

No variables.

4. **SYSTEM RESPONSE**

**OK** = The message has been accepted. May also include:
- OBSERVATION INTERVAL EXTENDED 1 HOUR = The input message has been issued before.

**PF** = Printout follows. Refer to the ALW:S7RPT output message.

**NG** = No good. May also include:
- FEATURE NOT AVAILABLE = The command cannot be used in this office. The office should be upgraded.
- HARDWARE NOT OPERATIONAL = CCS is not available in the office.
5. REFERENCES

Input Message(s):

INH:S7RPT
EXC:S7RPT
STP:S7RPT
OP:S7RPT

Output Message(s):

ALW:S7RPT
**ALW:S7XCHK**

- **Software Release:** 5E15 and later
- **Command Group:** CCS
- **Application:** 5
- **Type:** Input

1. **PURPOSE**

To Allow demand or automatic periodic PCI7GR cross checking to run. It must be entered before EXC:S7XCHK to start demand mode PCI7GR cross checking.

PCI7GR cross check is not allowed during CNI to PSU conversion.

2. **FORMAT**

```
ALW:S7XCHK[,TYPE=PCI7GR];
```

3. **EXPLANATION OF MESSAGE**

No variables.

4. **SYSTEM RESPONSE**

- **OK** = The request has been accepted. May also include:
  - PCI7GR CROSS CHECK ALLOWED = Cross checking has been allowed.
  - PCI7GR CROSS CHECK ALREADY ALLOWED = Cross checking was already allowed.

- **RL** = Retry later. The request has been denied. May also include:
  - CNI TO PSU CONVERSION IN PROGRESS. = CNI to PSU conversion process is in progress.

5. **REFERENCES**

**Input Message(s):**

- INH:S7XCHK
- EXC:S7XCHK
- STP:S7XCHK
- OP:S7XCHK

**Output Message(s):**

- EXC:S7XCHK
ALW:SCORPT

Software Release: 5E14 and later
Command Group: MAINT
Application: 5
Type: Input

1. PURPOSE

Requests that information related to switch cutoff calls be allowed, either with or without an accompanying hardware call trace.

A switch cutoff (SCO) occurs when an established connection is broken for some reason other than an onhook by one of the talking parties (that is, hardware or software failures, procedural errors or exhausted resources).

2. FORMAT

ALW:SCORPT[,a];

3. EXPLANATION OF MESSAGE

a

= Option selected. Valid value(s):
DEBUG

= If this option is selected, a more detailed SCO report from a software viewpoint is generated.

NOTE 1: Because of the large amount of information that will print with this option, support personnel should implement this ONLY if a large number of SCOs still occur after all hardware and resource problems have been resolved.

NOTE 2: Additional possible call cutoffs that were not pegged on the measurements report may be shown in this report with this option. This is the only way to see these "possible" call cutoffs.

TRC

= Print a hardware call trace (TRC:UTIL-LINE) with each SCO report that occurs.

4. SYSTEM RESPONSE

OK

= Good. The request has been received. All subsequent occurrences of switch cutoff calls will print an information report (REPT:SWITCH-CC).

5. REFERENCES

Input Message(s):

INH:SCORPT

Output Message(s):

REPT:SWITCH-CC
TRC:UTIL-LINE
ALW:SCSD

Software Release: 5E14 and later
Command Group: AM
Application: 5,3B
Type: Input

1. PURPOSE

Requests that transitions of a scanner and signal distributor (SCSD) scan point be reported. Scan points can be identified by physical location (as in Format 1) or by logical address (as in Format 2).

2. FORMAT

[1] ALW:SCSD:UNIT=a,PT=b[-b-b-b-b-b-b-b];

3. EXPLANATION OF MESSAGE

a = SCSD unit member number.
b = Physical scan point number on an SCSD.
c = Name of the logical SCSD group. Valid value(s):
   FANACU0
   FANACU1
   PDF0
   PRSWCU0
   PRSWCU1
   PRSWIOP0
   PRSWIOP1
   PRSWDFC0
   PRSWDFC1
   PRSWMHD0
   PRSWMHD1
   PTSWROP
   PTSWMCR
d = Duplex point ID.
e = Number of a point within a logical group.

4. SYSTEM RESPONSE

NG = No good. The SCSD administrator process is not active; no communication with SCSD points is possible.
PF = Printout follows. Followed by ALW:SCSD output message.
RL = Retry later.
5. REFERENCES

Input Message(s):

INH:SCSD
OP:SCSD
RMV:SCSDC
RST:SCSDC

Output Message(s):

ALW:SCSD
INH:SCSD
OP:SCSD
ORD:SCSD
REPT:FAN
REPT:SCSD
REPT:SCSDC
RMV:SCSDC
RST:SCSDC
ALW:SFTCHK-SM

Software Release: 5E14 and later
Command Group: SYSRCVY
Application: 5
Type: Input

1. PURPOSE

Requests that all software error checks be allowed in one or more switching modules (SMs), or a specified communication module processor (CMP). This message cancels the effect of the INH:SFTCHK input message.

2. FORMAT


3. EXPLANATION OF MESSAGE

Refer to the Acronym section of the Input Messages manual for the full expansion of any acronyms shown in the format.

a = CMP number.
b = SM number, or lower limit of a range of SM numbers.
c = Upper limit of the range of SM numbers.

4. SYSTEM RESPONSE

NG = No good. The message was not accepted because an illegal SM number or invalid range/type combination was specified.
OK = Good. The message was accepted and the action completed.

5. REFERENCES

Input Message(s):

INH:SFTCHK

Other Manual(s):
235-105-220 Corrective Maintenance
235-105-250 System Recovery

MCC Display Page(s):

1800 (SM INH & RCVRY CNTL)
1850/1851 (CMP INH & RCVRY CNTL)
ALW:SFTCHK

Software Release: 5E14 and later
Command Group: SYSRCVY
Application: 5,3B
Type: Input

1. PURPOSE

Allows the software error handling routines to incorporate system initialization into their error recovery procedures as a means of handling administrative module (AM) software sanity problems.

2. FORMAT

ALW:SFTCHK;

3. EXPLANATION OF MESSAGE

No variables.

4. SYSTEM RESPONSE

PF = Printout follows. Followed by the ALW:SFTCHK output message.

5. REFERENCES

Input Message(s):

ALW:ERRCHK
INH:SFTCHK
OP:ERRCHK

Output Message(s):

ALW:SFTCHK
INH:SFTCHK
OP:ERRCHK

Other Manual(s):
235-105-110 System Maintenance Requirements and Tools
ALW:SRM

Software Release: 5E14 and later
Command Group: MEAS
Application: 5
Type: Input

1. PURPOSE
Requests that the reporting of software resource measurement (SRM) information be allowed for a switching module (SM).

2. FORMAT
ALW:SRM,SM=a;

3. EXPLANATION OF MESSAGE

a = SM number.

4. SYSTEM RESPONSE

OK = The request has been accepted. Software resource measurement information will be reported every 30 minutes for the requested SM.

5. REFERENCES

Input Message(s):

INH:SRM

Output Message(s):

OP:SRM

Other Manual(s):

235-070-100 Administration and Engineering Guidelines

RC/V View(s):

8.40 (SRE INCREMENTAL GLOBAL PARAMETERS)
1. PURPOSE

Requests that a single service selective trunk reservation (SSTR) control be allowed for a specified trunk group after being inhibited by the INH:SSTR input message or by the INH option of the ASGN:SSTR input message.

2. FORMAT

ALW:SSTR,TG=a;

3. EXPLANATION OF MESSAGE

a = Trunk group (TG) number that has a SSTR control assigned.

4. SYSTEM RESPONSE

PF = Printout follows. Followed by an ALW:SSTR output message.

RL = Retry later. May also include:
- RESOURCE SHORTAGE = The request could not be accepted because the necessary resources are not available.

5. REFERENCES

Input Message(s):

ASGN:SSTR
INH:SSTR
OP:SSTR

Output Message(s):

ALW:SSTR

Other Manual(s):
235-190-115 Local and Toll System Features

MCC Display Page(s):

130 (NM EXCEPTION)
ALW:TCLRPT

Software Release: 5E14 and later
Command Group: MAINT
Application: 5
Type: Input

1. PURPOSE

Requests that the reporting of information be allowed related to transient calls lost either with or without an accompanying hardware call trace.

When TRC is specified, a hardware call trace (TRC:UTIL input message) is invoked for each transient call lost occurring.

2. FORMAT

ALW:TCLRPT[,TRC];

3. EXPLANATION OF MESSAGE

No variables.

4. SYSTEM RESPONSE

OK = Good. The request has been received. All subsequent occurrences of transient calls lost will print an information report (REPT:TRANSIENT-CL).

5. REFERENCES

Input Message(s):

INH:TCLRPT
TRC:UTIL

Output Message(s):

REPT:TRANSIENT-CL
ALW:TOD

Software Release: 5E14 and later
Command Group: ODD
Application: 5
Type: Input

1. PURPOSE
Requests that the display of the time of day (TOD) database update failure message be allowed.

2. FORMAT
ALW:TOD,FAIL;

3. EXPLANATION OF MESSAGE
No variables.

4. SYSTEM RESPONSE
OK = Good. The request has been accepted.

5. REFERENCES
Input Message(s):
   INH:TOD

Output Message(s):
   REPT:TOD-FAIL
ALW:TR

Software Release: 5E14 and later
Command Group: NMOC
Application: 5
Type: Input

1. PURPOSE
Requests that a single trunk reservation (TR) control be allowed for a specified trunk group.

2. FORMAT
ALW:TR,TG=a;

3. EXPLANATION OF MESSAGE
a = Trunk group (TG) number that has a TR control assigned.

4. SYSTEM RESPONSE
PF = Printout follows. Followed by an ALW:TR output message.
RL = Retry later. May also include:
- RESOURCE SHORTAGE = The necessary resources are not available.

5. REFERENCES
Input Message(s):
   INH:TR
   OP:TR

Output Message(s):
   ALW:TR

Other Manual(s):
235-190-101 Business and Residence Modular Features
235-190-115 Local and Toll System Features

MCC Display Page(s):
130 (NM EXCEPTION)
ALW:TRACE

Software Release: 5E14 and later
Command Group: CCS
Application: 5
Type: Input

1. PURPOSE

Requests that tracing be allowed to take place according to the previously input trace parameter settings. The ALW:TRACE and the INH:TRACE input messages form the basic on/off mechanism for trace. The parameter settings may be changed at any time through use of the SET:TRACE (whether tracing is allowed or inhibited). Until the ALW:TRACE request is issued, no trace report will be attempted (although it will consume a certain amount of fixed overhead).

NOTE: The interprocessor message switch (IMS) driver process must be running before trace updates can be sent to the node processors (NP).

2. FORMAT

ALW:TRACE;

3. EXPLANATION OF MESSAGE

No variables.

4. SYSTEM RESPONSE

PF = Printout follows. The ALW:TRACE output message will be printed.

5. REFERENCES

Input Message(s):

INH:TRACE
OP:TRACE
SET:TRACE

Output Message(s):

ALW:TRACE
INH:TRACE
OP:TRACE
REPT:TRACE
SET:TRACE
**ALW:TRAP**

**Software Release:** 5E14 and later  
**Command Group:** CCS  
**Application:** 5  
**Type:** Input

1. **PURPOSE**

Requests that a pending trap that was entered by the SET:TRAP input message be activated. In addition, this input message will allow a trap that was temporarily suspended/inhibited or that has completed due to duration or message count criterion being satisfied to be resumed.

Traps that have been aborted before completing can be restarted by entering the ALW:TRAP input message. Traps that have been stopped by a STOP:TRAP input message can not be reactivated with an ALW:TRAP input message. These traps can only be activated by entering a new SET:TRAP input message. Traps will be activated for the specified identification numbers.

2. **FORMAT**

```
ALW:TRAP:ID={a[-a][-a][-a][-a]}|ALL);
```

3. **EXPLANATION OF MESSAGE**

- **ALL** = Activate all pending traps.
- **a** = Trap identification number.

4. **SYSTEM RESPONSE**

```
PF = Printout follows. Followed by an ALW:TRAP output message.
```

5. **REFERENCES**

**Input Message(s):**

- INH:TRAP
- OP:TRAP
- SET:TRAP
- STOP:TRAP

**Output Message(s):**

- ALW:TRAP

**Other Manual(s):**

- 235-200-115 *CNI Common Channel Signaling*
- 235-200-116 *Signaling Gateway Common Channel Signaling*

**MCC Display Page(s):**

- 118 (CNI FRAME AND CCS LINK STATUS)
ALW:TRFC15

Software Release: 5E14 and later
Command Group: MEAS
Application: 5
Type: Input

1. PURPOSE

Requests that the 15-minute traffic report be allowed to be output to the receive-only printer (ROP). The report will continue to be output until turned off by the INH:TRFC15 message.

2. FORMAT

ALW:TRFC15;

3. EXPLANATION OF MESSAGE

No variables.

4. SYSTEM RESPONSE

NG = No good. May also include:
- PRINT ALLOCATION EXCEEDED = The message allocation for this office has reached its limit. The requested report has not been allowed.

OK = Good. The requested report has been allowed. May also include:
- LPS SET TO DISCARD = The report has been allowed, but output may not be seen because the log/print status is set to discard messages of this class.

5. REFERENCES

Input Message(s):

INH:TRFC15
OP:MEASTAT
OP:TRFC15

Output Message(s):

OP:MEASTAT-PRNT

Other Manual(s):
235-070-100 Administration and Engineering Guidelines
ALW:TRFC30

Software Release: 5E14 and later
Command Group: MEAS
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Requests that the specified section of the 30-minute traffic report be allowed to be collected (CLCT) or output to the traffic channel (TRFCH) or receive-only printer (ROP) every 30 minutes. The specified section will continue to be collected in the administrative module (AM) or output every 30 minutes until it is inhibited using the INH:TRFC30 input message. If no section is specified, an attempt will be made to allow all sections starting with Section 1. Those sections which do not fit in the buffer will remain inhibited. Sections which require identifiers in addition to the section name are not included in ALL or the default case.

NOTE: Some recent changes may need to be done first before allowing some sections. Refer to the APP:TRFC-SECTION appendix in the Appendixes section of the Input Messages manual.

WARNING: If no sections are specified, all sections that do not require arguments will be allowed.

2. FORMAT

ALW:TRFC30,{CLCT|TRFCH|ROP}[::a::ALL];

3. EXPLANATION OF MESSAGE

NOTE: Collection must be allowed before directions to print or prior to being allowed for the traffic channel.

ALL = Allow all sections that do not require identifiers default.

a = Section name that is to be allowed. Refer to the APP:TRFC-SECTION appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

NG = No good. May also include:
- CONFIGURATION NOT SUPPORTED = The section requested represents a configuration not present in this office.
- DATABASE ERROR = A database error prevented the request from being successfully completed.
- INCOMPLETE UNIT ID = The identifiers entered incompletely specified a unit.
- INVALID UNIT IDENTIFIERS = The identifier entered did not specify a unit for which data can be collected, or too many identifiers were entered for the ALW:TRFC30-ROP when a section with multiple study sets was requested.
- MEMORY ALLOCATION EXCEEDED = The TRFC30 buffer (memory) allocation would be exceeded if the section were allowed.
- MUST INHIBIT CURRENTLY ALLOWED STUDY SET = This section is a special study section that can not have study sets allowed for collection concurrently. The study set that is currently allowed must be inhibited before any other study set from this section will be allowed for collection.
- NOT ALLOWED FOR COLLECTION = The section cannot be allowed for output because it is not allowed for collection.
- PREVIOUS SAVED STUDY SET DOES NOT EXIST = This section is a special study section that did not save the arbitrary study set or the arbitrary study set does not exist.
- PRINT ALLOCATION EXCEEDED = The printing time allocation would be exceeded if the section were allowed for output to the ROP and/or TRFCH.
- SECTION NOT ALLOWABLE FOR PRINT = The section cannot be allowed for the ROP and/or TRFCH.
- SOME NOT ALLOWED- MEMORY ALLOCATION EXCEEDED = The TRFC30 buffer (memory) allocation would be exceeded if ALL sections were allowed; some section(s) remain inhibited.
- SOME NOT ALLOWED - PRINT ALLOCATION EXCEEDED = The printing time allocation would be exceeded if ALL sections were allowed; some section(s) remain inhibited.
- SOME SECTIONS NOT ALLOWED FOR ROP|TRFCH = ALL sections were requested, one or more sections are not allowed for output because they are not allowed for collection. Use the OP:STATUS,TRFC30 input message to determine which sections are inhibited for ROP/TRFCH. OP:MEASTAT,CLCT input message can be used to determine which sections are inhibited for collection.
- NO GROUPS ENABLED = Enable group by using the recent change/verify (RC/V) view before allowing specific sections. Refer to the APP:TRFC-SECTION appendix in the Appendixes section of the Input Messages manual for information on which RC/V views are appropriate for specific sections.

NO = The requested action failed. May also include:
- FEATURE NOT AVAILABLE = The feature required to process the request is not present in the switch.

OK = Good. The section(s) were allowed that could be allowed; however, section(s) that could not be allowed for ROP and/or TRFCH will remain inhibited when ALW:TRFC30,ROP,ALL is requested. May also include:
- LPS SET TO DISCARD = The section(s) were allowed, but output may not be seen because the log print status (LPS) is set to discard messages of this class.

PF = Printout follows. The ALW:TRFC30 output message will be printed.

5. REFERENCES

Input Message(s):

INH:TRFC30
OP:OFR-FORM
OP:ST-TRFC30
OP:TRFC30

Output Message(s):

ALW:ST-TRFC30
ALW:TRFC30
INH:TRFC30
OP:MEASTAT-CLCT
OP: MEASTAT-PRNT
OP: ST-TRFC30
OP: TRFC30-ND

Input Appendix(es):
  APP: TRFC-SECTION

Output Appendix(es):
  APP: TRFC-SECTION

Other Manual(s):
235-070-100  Administration and Engineering Guidelines
235-118-216  Recent Change Procedures, Menus, Views, and Form IDs
ALW:TSESS

   Software Release: 5E14 and later  
   Command Group: SM 
   Application: 5 
   Type: Input 

1. PURPOSE

Resume a subscriber line and instrument measurement (SLIM) routine mode test session that has previously been suspended.

2. FORMAT

   ALW:TSESS,SESS=a;

3. EXPLANATION OF MESSAGE

   a = Identity of the test session to be resumed (1-40).

4. SYSTEM RESPONSE

   IP = In process.
   NG = No good. May also include:

   - TEST SESSION a NOT DEFINED
   - TEST SESSION a NOT SUSPENDED

5. REFERENCES

MCC Display Page(s):

   162 (TESTSESSION STATUS)
ALW:UMEM

**Software Release:** 5E14 and later  
**Command Group:** SFTUTIL  
**Application:** 5,3B  
**Type:** Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Causes the administrative module (AM) generic access package (GRASP) transfer trace to start monitoring the flow of execution, as previously set up with an INIT:UMEM message. The transfer trace goes into the running state with successful completion of the message. This message can be used either as an immediate action, or it can be used in the action list of a WHEN message.

WARNING: Use of this GRASP capability can degrade system performance. It should not be used without expert technical assistance.

2. FORMAT

ALW:UMEM{!|;}

3. EXPLANATION OF MESSAGE

No variables.

4. SYSTEM RESPONSE

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>IP</td>
<td>In progress. The message has been added to the WHEN action list.</td>
</tr>
<tr>
<td>NG</td>
<td>No good. No trace is defined.</td>
</tr>
<tr>
<td>PF</td>
<td>Printout follows. Followed by ALW:UMEM output message.</td>
</tr>
<tr>
<td>RL</td>
<td>Retry later or wait for the previous OP:UMEM to complete. The system is in an overload condition.</td>
</tr>
</tbody>
</table>

5. REFERENCES

Input Message(s):

INH:UMEM  
INIT:UMEM  
OP:UMEM  
OP:UTIL  
WHEN:PID  
WHEN:UID

Output Message(s):

ALW:UMEM  
OP:UTIL
ALW:UT-CMP

Software Release: 5E14 and later
Command Group: SFTUTIL
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Requests that generic utility WHEN breakpoint clauses in the communication module processors (CMP) be allowed or enabled.

This message may be used together with any of the other CMP generic utility input messages. Refer to the References section of this message.

If this message is used together with other generic utility messages, the END:UT-CMP input message may be used to signal the end of the series of messages.

WARNING: The user takes responsibility for any effects on system operation that result from the use of this input message. Know the effects of the message before using it.

2. FORMAT

ALW:UT:CMP=a,{MATE|PRIM},{UTIL|UTILFLAG=b}{!|;}

3. EXPLANATION OF MESSAGE

MATE = Execute this input message on the standby CMP.
PRIM = Execute this input message on the active CMP.
UTIL = Execute this input message on all of the WHEN clauses in the specified CMP.

a = CMP number.

b = The identification number of a specific WHEN clause, which is to be enabled to an active state. Must be a number from 0 to 127.

NOTE: When requesting the enabling of WHEN clauses which have the TIME parameter specified, a maximum of 20 WHEN clauses may be enabled in one allow input message.

4. SYSTEM RESPONSE

Refer to the APP:UT-IM-REASON appendix in the Appendixes section of the Input Messages manual.

5. REFERENCES

Input Message(s):

CLR:UT-CMP
COPY:UT-CMP
DUMP:UT-CMP
ELSE:UT-CMP
END:UT-CMP
EXC:UT-CMP
IF:UT-CMP
IF:UT-CMP-ENDIF
INH:UT-CMP
LOAD:UT-CMP
OP:UT-CMP
WHEN:UT-CMP

Output Message(s):

ALW:UT-CMP

Input Appendix(es):

APP:UT-IM-REASON

Other Manual(s):
235-105-110 System Maintenance Requirements and Tools
ALW:UT-MCTSI-PI

Software Release: 5E14 and later
Command Group: SFTUTIL
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Requests that generic utility WHEN clauses in the packet interface unit (PI) be allowed or enabled.

NOTE: This input message is only supported on PIs of the PI2 hardware type.

WARNING: The user is responsible for any effects on system operation that result from the use of this input message. Know the effects of the message before using it.

2. FORMAT

ALW:UT:MCTSI=a-b,PI,{UTIL|UTILFLAG=c}{!|;}

3. EXPLANATION OF MESSAGE

UTIL = Execute this input message on all of the WHEN clauses in the specified PI.

a = Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

b = Side of the module controller/time-slot interchanger (MCTSI). Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

c = The identification number of a specific WHEN clause, which is to be enabled to an active state.

4. SYSTEM RESPONSE

Refer to the APP:UT-IM-REASON appendix in the Appendixes section of the Input Messages manual.

5. REFERENCES

Input Message(s):

CLR:UT-MCTSI-PI
COPY:UT-MCTSI-PI
DUMP:UT-MCTSI-PI
ELSE:UT-MCTSI-PI
END:UT-MCTSI-PI
EXC:UT-MCTSI-PI
IF:UT-MCTSI-PI
IF:UT-MCTSI-PE
INH:UT-MCTSI-PI
LOAD:UT-MCTSI-PI
OP:UT-MCTSI-PI
WHEN: UT-MCTSI-PI

Input Appendix(es):

APP: RANGES
APP: UT-IM-REASON

Other Manual(s):
235-105-110 System Maintenance Requirements and Tools
235-600-400 Audits
1. PURPOSE

Requests that generic utility WHEN breakpoint clauses in the packet switch unit protocol handler (PSUPH) be allowed or enabled.

**NOTE:** This input message is only supported on PSUPHs of the PH3/PH4 hardware type (that is, not PH2 hardware types).

This message may be used together with any of the other PSUPH generic utility input messages.

If this message is used together with other generic utility messages, the END:UT-PSUPH input message may be used to signal the end of the series of messages.

**WARNING:** The user is responsible for any effects on system operation that result from the use of this input message. Know the effects of the message before using it.

2. FORMAT

```
ALW:UT:PSUPH=a-0-b-c,{UTIL|UTILFLAG=d}{!|;}
```

3. EXPLANATION OF MESSAGE

- **UTIL** = Execute this input message on all of the WHEN clauses in the specified PSUPH.
- **a** = Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
- **b** = Shelf number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
- **c** = Slot number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
- **d** = The identification number of a specific WHEN clause, which is to be enabled to an active state.

**NOTE:** When requesting the enabling of WHEN clauses which have the TIME parameter specified, a maximum of 20 WHEN clauses may be enabled in one allow input message.

4. SYSTEM RESPONSE

Refer to the APP:UT-IM-REASON appendix in the Appendixes section of the Input Messages manual.

5. REFERENCES
Input Message(s):
CLR:UT-PSUPH
COPY:UT-PSUPH
DUMP:UT-PSUPH
ELSE:UT-PSUPH
END:UT-PSUPH
EXC:UT-PSUPH
IF:UT-PSUPH
IF:UT-PSUPH-END
INH:UT-PSUPH
LOAD:UT-PSUPH
OP:UT-PSUPH
WHEN:UT-PSUPH

Output Message(s):
ALW:UT-PSUPH

Input Appendix(es):
APP:UT-IM-REASON

Other Manual(s):
235-105-110 System Maintenance Requirements and Tools
235-600-400 Audits
ALW:UT-PSUPH-B

Software Release: 5E16(1) and later
Command Group: SFTUTIL
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Requests that generic utility WHEN breakpoint clauses in the packet switch unit protocol handler (PSUPH) be allowed or enabled.

This input message is not supported on PSUPHs of the PH2 hardware type.

This message may be used together with any of the other PSUPH generic utility input messages.

If this message is used together with other generic utility messages, the END:UT-PSUPH input message may be used to signal the end of the series of messages.

WARNING: The user is responsible for any effects on system operation that result from the use of this input message. Know the effects of the message before using it.

2. FORMAT

ALW:UT:PSUPH=a-b-c-d,e{!|;}

3. EXPLANATION OF MESSAGE

a = Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

b = Packet switching unit (PSU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

c = Shelf number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

d = Slot number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

e = Extent of WHEN clauses to be included in this execution.

UTIL = Execute this input message on all of the WHEN clauses in the specified PSUPH.

UTILFLAG=f = Execute this input message on the specific WHEN clause in the specified PSUPH.

f = The identification number of a specific WHEN clause, which is to be enabled to an active state.

NOTE: When requesting the enabling of WHEN clauses which have the TIME parameter specified, a maximum of 20 WHEN clauses may be enabled in one allow input message.
4. SYSTEM RESPONSE

Refer to the APP:UT-IM-REASON appendix in the Appendixes section of the Input Messages manual.

5. REFERENCES

Input Message(s):

CLR:UT-PSUPH
COPY:UT-PSUPH
DUMP:UT-PSUPH
ELSE:UT-PSUPH
END:UT-PSUPH
EXC:UT-PSUPH
IF:UT-PSUPH
IF:UT-PSUPH-END
INH:UT-PSUPH
LOAD:UT-PSUPH
OP:UT-PSUPH
WHEN:UT-PSUPH

Output Message(s):

ALW:UT-PSUPH

Input Appendix(es):

APP:RANGES
APP:UT-IM-REASON

Other Manual(s):
235-105-110 System Maintenance Requirements and Tools
235-600-400 Audits
ALW:UT-SM

**Software Release:** 5E14 and later  
**Command Group:** SFTUTIL  
**Application:** 5  
**Type:** Input  

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Requests that generic utility WHEN breakpoint clauses in the switching module (SM) be allowed or enabled.

This message may be used together with any of the other SM generic utility input messages. If this message is used together with other generic utility messages, the END:UT-SM input message may be used to signal the end of the series of messages.

**WARNING:** The user is responsible for any effects on system operation that result from the use of this input message. Know the effects of the message before using it.

2. FORMAT

```
ALW:UT:SM=a[&&b],{UTIL|UTILFLAG=c}{!|;}
```

3. EXPLANATION OF MESSAGE

**UTIL** = Execute this input message on all of the WHEN clauses in the specified SM(s).

**a** = SM number or the lower limit of a range of SM numbers.

**b** = Upper limit of a range of SM numbers.

**c** = The identification number of a specific WHEN clause, which is to be enabled to an active state.

**NOTE:** When requesting the enabling of WHEN clauses which have the TIME parameter specified, a maximum of 20 WHEN clauses may be enabled in one allow input message.

4. SYSTEM RESPONSE

Refer to the APP:UT-IM-REASON appendix in the Appendixes section of the Input Messages manual.

5. REFERENCES

Input Message(s):

- CLR:UT-SM
- COPY:UT-SM
- DUMP:UT-SM
- ELSE:UT-SM
- END:UT-SM
- EXC:UT-SM
- IF:UT-SM
- IF:UT-SM-ENDIF
INH: UT-SM
LOAD: UT-SM
OP: UT-SM
WHEN: UT-SM

Output Message(s):

ALW: UT-SM

Input Appendix(es):

APP: UT-IM-REASON

Other Manual(s):
235-105-110  System Maintenance Requirements and Tools
ALW:UTIL

Software Release: 5E14 and later
Command Group: SFTUTIL
Application: 5,3B
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Requests that all currently defined administrative module (AM) generic access package (GRASP) breakpoints be enabled so that the associated actions are executed when the breakpoint conditions occur.

WARNING: Use of this GRASP capability can degrade system performance. It should not be used without expert technical assistance.

2. FORMAT

ALW:UTIL{; | !}

3. EXPLANATION OF MESSAGE

No variables.

4. SYSTEM RESPONSE

IP    = In progress. The message has been added to the WHEN action list.
NG    = No good. No GRASP breakpoints are currently defined.
PF    = Printout follows. Followed by ALW:UTIL output message.
RL    = Retry later. The system is in an overload condition or completing previous OP:UMEM message.

5. REFERENCES

Input Message(s):

ALW:UTILFLAG
INH:UTIL
OP:UTIL
WHEN:PID
WHEN:UID

Output Message(s):

ALW:UTIL
OP:UTIL
ALW:UTILFLAG

**Software Release:** 5E14 and later  
**Command Group:** SFTUTIL  
**Application:** 5,3B  
**Type:** Input

1. **PURPOSE**

Requests that a specific administrative module (AM) generic access package (GRASP) breakpoint be enabled so that the associated actions are executed when the breakpoint condition occurs. The ALW:UTILFLAG message can be used to enable a breakpoint immediately, or as an action associated with a breakpoint.

2. **FORMAT**

ALW:UTILFLAG=a{;|!}

3. **EXPLANATION OF MESSAGE**

a  
= Numeric identifier (one or more decimal digits) for the breakpoint to be enabled.

4. **SYSTEM RESPONSE**

**IP**  
= In progress. The message was added to the WHEN action list.

**NG**  
= No good. Identifier does not correspond to a currently defined breakpoint.

**PF**  
= Printout follows. Followed by ALW:UTILFLAG output message.

**RL**  
= Retry later. The system is in an overload condition or completing the previous OP:UMEM message.

5. **REFERENCES**

**Input Message(s):**

ALW:UTIL  
INH:UTILFLAG  
OP:UMEM  
OP:UTIL  
WHEN:PID  
WHEN:UID

**Output Message(s):**

ALW:UTILFLAG  
OP:UTIL  
WHEN:PID  
WHEN:UID
10. APPLY
APPLY:OMDB

Software Release: 5E14 and later
Command Group: SFTMGT
Application: 5,3B
Type: Input

1. PURPOSE
Applies previous updates to the new copy of the output message data base (OMDB) disk file during field update.

2. FORMAT
APPLY:OMDB;

3. EXPLANATION OF MESSAGE
No variables.

4. SYSTEM RESPONSE
IP = In progress. Followed by the APPLY:OMDB output message.

5. REFERENCES
Input Message(s):
   ACTV:OMDB
   OP:OMDB
   UPD:OMDB

Output Message(s):
   APPLY:OMDB

Other Manual(s):
235-105-250   Craft Terminal Lockout Job Aid
11. ASGN
1. PURPOSE

Requests that a dynamic overload control (DOC) response category and action be assigned for a specified common channel signaling (CCS) trunk group.

2. FORMAT

ASGN:DOC,TG=a,RESP=b[,CNTL=c];

3. EXPLANATION OF MESSAGE

a = CCS trunk group number. Must be a one-way outgoing or a two-way trunk group.

b = Response category. These categories designated 'A' through 'F' along with traffic type and level of DOC received determine the percentage of calls on which to apply DOC.

Table 1  DOC Response Category

<table>
<thead>
<tr>
<th>DOC LEVEL RECEIVED</th>
<th>TRAFFIC</th>
<th>RESPONSE CATEGORY TYPE</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>A</td>
<td>B</td>
</tr>
<tr>
<td>DOC1</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>DOC2</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>DOC3</td>
<td>100%</td>
<td>100%</td>
</tr>
</tbody>
</table>

For example, the office receives a DOC2 level. If the user assigns DOC and the response category chosen is E, DOC will be applied to 100% of the alternate route traffic and 75% of the direct route traffic.

c = Control action. Valid value(s):
CANT = DOC CANT control.
SKIP = DOC SKIP control.

4. SYSTEM RESPONSE

NG = No good. May also include:
- INVALID REQUEST = The request has been denied. This office is not equipped to process the request entered.

PF = Printout follows. Followed by the ASGN:DOC output message.

RL = Retry later. May also include:
- RESOURCE SHORTAGE = The necessary resources are not available.
5. REFERENCES

Input Message(s):

CLR: DOC
OP: DOC

Output Message(s):

ASGN: DOC

Other Manual(s):
235-190-115  Local and Toll System Features

MCC Display Page(s):
130        NM EXCEPTION
ASGN:DOC-B

Software Release: 5E16(2) and later
Command Group: NMOC
Application: 5
Type: Input

1. PURPOSE
Requests that a dynamic overload control (DOC) response category and action be assigned for a specified common channel signaling (CCS) trunk group.

2. FORMAT
ASGN:DOC,TG=a,RESP=b[,CNTL=c];

3. EXPLANATION OF MESSAGE

a = CCS trunk group number. Must be a one-way outgoing or a two-way trunk group.

b = Response category. These categories designated 'A' through 'F' along with traffic type and level of DOC received determine the percentage of calls on which to apply DOC. Traffic type can be either hard-to-reach (HTR) or non-HTR.

<table>
<thead>
<tr>
<th>DOC LEVEL RECEIVED</th>
<th>TRAFFIC TYPE</th>
<th>RESPONSE CATEGORY</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>DOC1</td>
<td>A</td>
</tr>
<tr>
<td>Alternate route to non-HTR</td>
<td>0%</td>
<td>0%</td>
</tr>
<tr>
<td>Direct route to non-HTR</td>
<td>0%</td>
<td>0%</td>
</tr>
<tr>
<td>Alternate route to HTR</td>
<td>0%</td>
<td>0%</td>
</tr>
<tr>
<td>Direct route to HTR</td>
<td>0%</td>
<td>0%</td>
</tr>
<tr>
<td>DOC2</td>
<td>Alternate route to non-HTR</td>
<td>0%</td>
</tr>
<tr>
<td>Direct route to non-HTR</td>
<td>0%</td>
<td>0%</td>
</tr>
<tr>
<td>Alternate route to HTR</td>
<td>100%</td>
<td>100%</td>
</tr>
<tr>
<td>Direct route to HTR</td>
<td>0%</td>
<td>100%</td>
</tr>
<tr>
<td>DOC3</td>
<td>All traffic</td>
<td>100%</td>
</tr>
</tbody>
</table>

For example, the office receives a DOC2 level. If the user assigns DOC and the response category chosen is E, DOC will be applied to 100% of the alternate route non-HTR traffic, 75% of the direct route non-HTR traffic, 100% of the alternate route HTR traffic and 100% of the direct route HTR traffic.

c = Control action. Valid value(s):
CANT = DOC CANT control.
SKIP = DOC SKIP control.
4. SYSTEM RESPONSE

NG  = No good. May also include:
    - INVALID REQUEST = The request has been denied. This office is not equipped to process the request entered.

PF  = Printout follows. Followed by the ASGN:DOC output message.

RL  = Retry later. May also include:
    - RESOURCE SHORTAGE = The necessary resources are not available.

5. REFERENCES

Input Message(s):

CLR : DOC
OP : DOC

Output Message(s):

ASGN : DOC

Other Manual(s):
235-190-115   Local and Toll System Features

MCC Display Page(s):
130   NM EXCEPTION
ASGN:DPSCH

Software Release: 5E14 and later
Command Group: NMOC
Application: 5
Type: Input

1. PURPOSE

Assigns trunk groups to the network management (NM) schedule (SCH). This teletypewriter (TTY) message is only valid for defense switched network (DSN) switches. This message also has options to permit the display of trunk groups in the TRUNK block of the DSN exception page. Each trunk group displayed in the TRUNK block has three indicators associated with it, the level of maintenance usage of the trunk group, the number of attempts per circuit per hour (ACH) of the trunk group, and the level of connections per circuit per hour (CCH).

2. FORMAT

ASGN:DPSCH,TG=a[-a][-a][-a][-a][-a][-a][-a][,ROW=b][,COL=c];

3. EXPLANATION OF MESSAGE

a = Trunk group number.

b = Row number of the TRUNK block in the DSN exception page. Zero is the default.

c = Column number of the TRUNK block in the DSN exception page. Zero is the default.

There are 24 display boxes in the TRUNK block with six boxes per row and four boxes per column. A particular display is identified by its row number and column number.

If neither row number nor column number is entered, one to eight trunk groups may be specified. These trunk groups will be added only to the schedule list. These trunk groups are not displayed in the TRUNK block. If only column number is entered, up to four trunk groups may be specified. These trunk groups are displayed on the designated column from top to bottom. The row defaults to 1 in the TRUNK block.

If only row number is entered, up to six trunk groups may be specified. The specified trunk groups are displayed on the designated row from left to right. The column defaults to 1 in the TRUNK block.

If both row and column numbers are entered, only one trunk group may be specified and it will be displayed in the designated box. If row=0 and col=0 is specified, the trunk group is only added to the schedule list. This trunk group is not displayed in the TRUNK block.

4. SYSTEM RESPONSE

PF = Printout follows. Followed by the ASGN:DPSCH output message.

NG = No good. May also include:
   - INVALID PARAMETER = Column/row number not in valid range.
   - TOO MANY TGS = Too many trunk groups are specified for the give column/row number. (Refer to variable 'c' for maximum number of trunk groups allowed for a column/row).

RL = Retry later. May also include:
   - RESOURCE SHORTAGE = The necessary resources are not available.
5. REFERENCES

Input Message(s):

CLR: NMSCH
CLR: TRKDP
OP: NMSCH
OP: NMTHD
SET: NMTHD

Output Message(s):

ASGN: DFSCH

Other Manual(s):
235-900-113  Product Specification

MCC Display Page(s):

130 (DSN EXCEPTION)
109 (OVERLOAD)
ASGN:MHTR
Software Release: 5E16(2) and later
Command Group: NMOC
Application: 5
Type: Input

1. PURPOSE
Requests that a destination specified by code and/or carrier be assigned to the manual hard-to-reach (MHTR) list.

NOTE: For the AUTOPLEX® application, this message will not have any effect on the application software. It can be entered, but it will not take effect.

2. FORMAT
ASGN:MHTR,{CODE=a[CARR=b]|CARR=b};

3. EXPLANATION OF MESSAGE
a  = Destination code (1 to 10 digits). (Valid character set 0-9); The string is typically of the form NPANXXX where NPA is the area code, NXX is the office code and X is the first of the last four digits of the number. Any of the leftmost subsets, however, can be entered (such as, the area code, the area code followed by one digit of the office code NPAN, and so forth.).

NOTE: The code could be a full destination code or any left-most subset thereof.

b  = The feature group D carrier (0 - 9999).

4. SYSTEM RESPONSE
NG  = Not good. Valid value(s):
   FEATURE NOT AVAILABLE = The hard-to-reach feature is not available.

PF  = Printout follows. Followed by the ASGN:MHTR output message.

RL  = Retry later. Valid value(s):
   RESOURCE SHORTAGE = The necessary resources are not available.

5. REFERENCES
Input Message(s):
CLR:MHTR
OP:HTR

Output Message(s):
ASGN:MHTR

Other Manual(s):

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235-190-115  Local and Toll System Features

MCC Display Page(s):
130      NM EXCEPTION
ASGN:NMNODES

Software Release: 5E14 and later
Command Group: NMOC
Application: 5
Type: Input

1. PURPOSE
Requests that node identifiers be assigned to the network management node schedule (NMNODES) for the collection of five-minute node-to-node data. This request is for the five-minute package LNNODE. A node is identified by a common language location identifier (CLLI) code and the voice/data indicator.

2. FORMAT
ASGN:NMNODES, NODES=a-b[-a-b][-a-b][-a-b];

3. EXPLANATION OF MESSAGE
a = CLLI code.
b = Voice/data indicator. Valid value(s):
   V = Voice indicator.
   D = Data indicator.

4. SYSTEM RESPONSE
PF = Printout follows. Followed by the ASGN:NMNODES output message.
RL = Retry later. May also include:
   - RESOURCE SHORTAGE = The request could not be accepted because the necessary resources are not available.

5. REFERENCES
Input Message(s):
   CLR:NMNODES
   OP:NMNODES

Output Message(s):
   ASGN:NMNODES

Other Manual(s):
   235-070-100   Administration and Engineering Guidelines
   235-190-115   Local and Toll System Features

MCC Display Page(s):
130 (NM EXCEPTION)
ASGN:NMSCH

Software Release: 5E14 and later  
Command Group: NMOC  
Application: 5  
Type: Input

1. PURPOSE

Requests that trunk groups be assigned to the network management (NM) schedule (SCH). The NM schedule is a list of trunk groups of interest to network managers.

2. FORMAT

ASGN:NMSCH, TG=a[-a][-a][-a][-a][-a][-a];

3. EXPLANATION OF MESSAGE

a = Valid trunk group number.

4. SYSTEM RESPONSE

PF = Printout follows. Followed by the ASGN:NMSCH output message.

RL = Retry later. May also include:
- RESOURCE SHORTAGE = The necessary resources are not available.

5. REFERENCES

Input Message(s):

CLR:NMSCH
OP:NMSCH

Output Message(s):

ASGN:NMSCH

Other Manual(s):
235-190-101  Business and Residence Modular Features

MCC Display Page(s):

130 (NM EXCEPTION)  
109 (OVERLOAD)
ASGN:SILC
Software Release: 5E14 and later
Command Group: NMOC
Application: 5
Type: Input

1. PURPOSE
Requests that a trunk group be assigned to selective incoming load control (SILC) treatment.

NOTE: For the Autoplex™ application, this message will not have any effect on the application software. It can be entered, but it will not take effect.

2. FORMAT
ASGN:SILC,TG=a;

3. EXPLANATION OF MESSAGE
a = Valid trunk group number.

4. SYSTEM RESPONSE
PF = Printout follows. Followed by the ASGN:SILC output message.
RL = Retry later. May also include:
- RESOURCE SHORTAGE = The necessary resources are not available.

5. REFERENCES
Input Message(s):
CLR:SILC
OP:SILC

Output Message(s):
ASGN:SILC

Other Manual(s):
235-190-115 Local and Toll System Features

MCC Display Page(s):
130 (NM EXCEPTION)
109 (OVERLOAD)
ASGN:SSTR

Software Release: 5E14 and later
Command Group: NMOC
Application: 5
Type: Input

1. PURPOSE

Requests that a service selective trunk reservation (SSTR) control be assigned to a specified trunk group.

2. FORMAT

ASGN:SSTR,TG=a[,RL=b][,INH=c];

3. EXPLANATION OF MESSAGE

   a = Trunk group (TG) number. Must be a one-way outgoing or a two-way trunk group. The LN TYPE attribute for the TG in the RC/V view 5.1 (TRUNK GROUP) must not be NULL.

   b = Reservation level (RL). The number of circuits to be reserved in the specified trunk group (1 - 15, default 1). RL must be assigned with a value 1 <= RL < RL2 < RL1 <= 15. RL1 and RL2 are the reservation levels possibly assigned by any ASGN:TR input message for this trunk group.

   c = Control status. Valid value(s):
      N = The control will be in effect (default).
      Y = Inhibit (INH) control until allowed by the ALW:SSTR input message.

4. SYSTEM RESPONSE

   PF = Printout follows. Followed by the ASGN:SSTR output message.

   RL = Retry later. May also include:
      - RESOURCE SHORTAGE = The request could not be accepted because the necessary resources are not available.

5. REFERENCES

Input Message(s):

   ALW:SSTR
   ASGN:TR
   CLR:SSTR
   CLR:SSTROVRD
   INH:SSTR
   OP:SSTR
   OP:TR
   SET:SSTROVRD

Output Message(s):
ASGN: SSTR

Other Manual(s):
235-190-115  Local and Toll System Features

MCC Display Page(s):
  130 (NM EXCEPTION)

RC/V View(s):
  5.1 (TRUNK GROUP)
ASGN:TESTSET

Software Release: 5E14 and later
Command Group: TRKLN
Application: AEWNC
Type: Input

1. PURPOSE

Requests that the wireless test set will be assigned to an Air Extension SM user's analog line so that the maintenance personnel can test an user's wireless service without requiring the user's handset phone. After the test set is assigned to an user's analog line it will act just like the handset (wireless phone).

2. FORMAT

ASGN:TESTSET,TSDN=a,USERDN=b{,TIME=c,d}{,UCL};

3. EXPLANATION OF MESSAGE

a = 10 digit DN of the test set to be used.
b = 10 digit DN of the analog phone to be tested.
c = Length of time the test set is to be assigned in hours (default is 1 hour).
d = Minutes.

4. SYSTEM RESPONSE

RL = Retry later. The request has been denied, probably due to system load.
PF = Printout follows. The request has been accepted and is followed by an ASGN:TESTSET output message.

5. REFERENCES

Output Message(s):

ASGN:TESTSET
OP:TESTSET

Other Manual(s):
230-701-100 Air Extension SM Reference Guide
235-701-120 Air Extension SM User Guide
1. PURPOSE

Requests that a trunk reservation (TR) control be assigned to a specified trunk group.

Note: For the Autoplex® application, this message will not have any effect on the application software. It can be entered, but it will not take effect.

2. FORMAT

ASGN:TR,TG=a,{RL1=b[,RL2=c]|RL2=c},RESP=d[,CNTL=e][,ARA=f][,INH=g];

3. EXPLANATION OF MESSAGE

a = Trunk group (TG) number. Must be a one-way outgoing or a two-way trunk group.

b = Reservation level 1 (RL1). Number of idle circuits per trunk group to be reserved - (0 - 15, default 0).

c = Reservation level 2 (RL2). Number of idle circuits per trunk group to be reserved - (0 - 15, default 0).

Note: At least one reservation level (RL1 or RL2) must be non-zero. If both are non-zero, then RL1 must be greater than RL2. If an SSTR control has been assigned for TG 'a' by an ASGN:SSTR input message, RL1 and RL2 must be assigned with a value 1 <= RL < RL2 < RL1 <= 15. RL is the reservation level possibly assigned by any ASGN:SSTR input message for this trunk group.

d = Response category (RESP). These categories, designated 'A' through 'E', along with the reservation level triggered determine the percentage of calls to control as shown in Exhibit A.

Table 1 Exhibit A: TR Response Category

<table>
<thead>
<tr>
<th>RESERVATION LEVEL</th>
<th>TRAFFIC</th>
<th>RESPONSE CATEGORY TYPE</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>RL1</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Alternate route</td>
<td>A: 0%  B: 0%  C: 0%  D: 100%  E: 0%</td>
</tr>
<tr>
<td></td>
<td>Direct route</td>
<td>A: 0%  B: 0%  C: 0%  D: 0%  E: 0%</td>
</tr>
<tr>
<td></td>
<td>RL2</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Alternate route</td>
<td>A: 0%  B: 100%  C: 100%  D: 100%  E: 0%</td>
</tr>
<tr>
<td></td>
<td>Direct route</td>
<td>A: 0%  B: 0%  C: 0%  D: 0%  E: 0%</td>
</tr>
</tbody>
</table>

Note: For example, if the RL2 reservation level is triggered and the response category chosen is 'C', TR will be applied to 100% of the alternate route traffic and 0% of the direct route traffic.

e = Control (CNTL) action. Valid value(s):
CANT = TR cancel-to control (default).
SKIP = TR skip control.
= Automatic reservation adjustment (ARA) status. Valid value(s):
N = ARA is not in effect (default).
Y = ARA is in effect.
Note: If ARA is 'Y', then RL1 and RL2 must be specified as non-zero.

= Control status. Valid value(s):
N = The control will be in effect (default).
Y = Inhibit (INH) control until allowed by the ALW:TR input message.

4. SYSTEM RESPONSE

PF = Printout follows. Followed by the ASGN:TR output message.

RL = Retry later. Valid value(s):
- RESOURCE SHORTAGE = The necessary resources are not available.

5. REFERENCES

Input Message(s):

ALW:TR
ASGN:SSTR
CLR:TR
CLR:TROVRD
INH:TR
OP:TR
SET:TROVRD

Output Message(s):

ASGN:SSTR
ASGN:TR

Other Manual(s):
235-190-115 Local and Toll System Features

MCC Display Page(s):

130 (NM EXCEPTION)
ASGN:TR-B

Software Release: 5E15 only
Command Group: NMOC
Application: 5
Type: Input

1. PURPOSE

Requests that a trunk reservation (TR) control be assigned to a specified trunk group.

NOTE: For the Autoplex® application, this message will not have any effect on the application software. It can be entered, but it will not take effect.

2. FORMAT

ASGN:TR,TG=a,{RL1=b[,]RL2=c},RESP=d[,]CNTL=e[,]ARA=f[,]INH=g;

3. EXPLANATION OF MESSAGE

a = Trunk group (TG) number. Must be a one-way outgoing or a two-way trunk group.

b = Reservation level 1 (RL1). Number of idle circuits per trunk group to be reserved (0 - 65534, default 0).

NOTE: At least one reservation level (RL1 or RL2) must be non-zero. If both are non-zero, then RL1 must be greater than RL2. If an SSTR control has been assigned for TG 'a' by an ASGN:SSTR input message, RL1 and RL2 must be assigned with a value 1 <= RL < RL2 < RL1 <= 65534. RL is the reservation level possibly assigned by any ASGN:SSTR input message for this trunk group.

c = Reservation level 2 (RL2). Number of idle circuits per trunk group to be reserved (0 - 65534, default 0).

d = Response category (RESP). These categories, designated 'A' through 'E', along with the reservation level triggered determine the percentage of calls to control.

<table>
<thead>
<tr>
<th>RESERVATION LEVEL</th>
<th>TRAFFIC</th>
<th>RESPONSE CATEGORY TYPE</th>
</tr>
</thead>
<tbody>
<tr>
<td>RL1</td>
<td>Alternate route</td>
<td>A 0%  B 0%  C 0%  D 100%  E 0%</td>
</tr>
<tr>
<td></td>
<td>Direct route</td>
<td>A 0%  B 0%  C 0%  D 0%  E 0%</td>
</tr>
<tr>
<td>RL2</td>
<td>Alternate route</td>
<td>A 0%  B 100%  C 100%  D 100%  E 0%</td>
</tr>
<tr>
<td></td>
<td>Direct route</td>
<td>A 0%  B 0%  C 0%  D 100%  E 0%</td>
</tr>
</tbody>
</table>

NOTE: For example, if the RL2 reservation level is triggered and the response category chosen is 'C', TR will be applied to 100% of the alternate route traffic and 0% of the direct route traffic.

e = Control (CNTL) action. Valid value(s):

CANT = TR cancel-to control (default).

SKIP = TR skip control.
f = Automatic reservation adjustment (ARA) status. Valid value(s):
N = ARA is not in effect (default).
Y = ARA is in effect.

NOTE: If ARA is ‘y’, then RL1 and RL2 must be specified as non-zero.

g = Control status. Valid value(s):
N = The control will be in effect (default).
Y = Inhibit control until allowed by the ALW:TR input message.

4. SYSTEM RESPONSE

PF = Printout follows. Followed by the ASGN:TR output message.

RL = Retry later. May also include:
   - RESOURCE SHORTAGE = The necessary resources are not available.

5. REFERENCES

Input Message(s):

   ALW:TR
   ASGN:SSTR
   CLR:TR
   CLR:TROVRD
   INH:TR
   OP:TR
   SET:TROVRD

Output Message(s):

   ASGN:SSTR
   ASGN:TR

Other Manual(s):
235-190-115 Local and Toll System Features

MCC Display Page(s):

   NM EXCEPTION
1. PURPOSE

Requests that a trunk reservation (TR) control be assigned to a specified trunk group.

2. FORMAT

ASGN:TR,TG=a, {RL1=b[,RL2=c]|RL2=c}, RESP=d [,CNTL=e] [,ARA=f] [,INH=g]

3. EXPLANATION OF MESSAGE

a = Trunk group (TG) number. Must be a one-way outgoing or a two-way trunk group.

b = Reservation level 1 (RL1). Number of idle circuits per trunk group to be reserved (0 - 65534, default 0).

c = Reservation level 2 (RL2). Number of idle circuits per trunk group to be reserved (0 - 65534, default 0).

NOTE: At least one reservation level (RL1 or RL2) must be non-zero. If both are non-zero, then RL1 must be greater than RL2. If an SSTR control has been assigned for TG ‘a’ by an ASGN:SSTR input message, RL1 and RL2 must be assigned with a value 1 <= RL < RL2 < RL1 <= 65534. RL is the reservation level possibly assigned by any ASGN:SSTR input message for this trunk group.

d = Response category (RESP). These categories, designated ‘A’ through ‘E’, along with the reservation level triggered determine the percentage of calls to control.

<table>
<thead>
<tr>
<th>RESERVATION LEVEL</th>
<th>TRAFFIC</th>
<th>RESPONSE CATEGORY TYPE</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>A</td>
</tr>
<tr>
<td>RL1</td>
<td>Alternate route</td>
<td>0%</td>
</tr>
<tr>
<td></td>
<td>Direct route</td>
<td>0%</td>
</tr>
<tr>
<td>RL2</td>
<td>Alternate route</td>
<td>0%</td>
</tr>
<tr>
<td></td>
<td>Direct route</td>
<td>0%</td>
</tr>
</tbody>
</table>

For example, if the RL2 reservation level is triggered and the response category chosen is ‘C’, TR will be applied to 100% of the alternate route traffic and 0% of the direct route traffic.

e = Control (CNTL) action. Valid value(s):
CANT = TR cancel-to control (default).
SKIP = TR skip control.

f = Automatic reservation adjustment (ARA) status. Valid value(s):
N = ARA is not in effect (default).
Y = ARA is in effect. RL1 and RL2 must be specified as non-zero.
Control status. Valid value(s):

N = The control will be in effect (default).
Y = Inhibit control until allowed by the ALW:TR input message.

4. SYSTEM RESPONSE

PF = Printout follows. Followed by the ASGN:TR output message.

RL = Retry later. May also include:
- RESOURCE SHORTAGE = The necessary resources are not available.

5. REFERENCES

Input Message(s):

ALW:TR
ASGN:SSTR
CLR:TR
CLR:TROVRD
INH:TR
OP:TR
SET:TROVRD

Output Message(s):

ASGN:SSTR
ASGN:TR

Other Manual(s):
235-190-115 Local and Toll System Features

MCC Display Page(s):
130 NM EXCEPTION
ASGN:TR-D

Software Release: 5E16(2) and later
Command Group: NMOC
Application: 5
Type: Input

1. PURPOSE

Requests that a trunk reservation (TR) control be assigned to a specified trunk group.

2. FORMAT

ASGN:TR,TG=a,{RL1=b[,RL2=c]|RL2=c},RESP=d[,CNTL=e][,ARA=f][,INH=g];

3. EXPLANATION OF MESSAGE

| a | = Trunk group (TG) number. Must be a one-way outgoing or a two-way trunk group. |
| b | = Reservation level 1 (RL1). Number of idle circuits per trunk group to be reserved (0 - 65534, default 0). |
| c | = Reservation level 2 (RL2). Number of idle circuits per trunk group to be reserved (0 - 65534, default 0). |

**NOTE:** At least one reservation level (RL1 or RL2) must be non-zero. If both are non-zero, then RL1 must be greater than RL2. If an SSTR control has been assigned for TG 'a' by an ASGN:SSTR input message, RL1 and RL2 must be assigned with a value $1 \leq RL < RL2 < RL1 \leq 65534$. RL is the reservation level possibly assigned by any ASGN:SSTR input message for this trunk group.

| d | = Response category (RESP). These categories, designated 'A' through 'E', along with the reservation level triggered determine the percentage of calls to control. Traffic types can be either hard-to-reach (HTR) or non-HTR. |

<table>
<thead>
<tr>
<th>TR Response Category</th>
<th>RESERVATION LEVEL</th>
<th>TRAFFIC TYPE</th>
<th>RESPONSE CATEGORY</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>RL1</td>
<td>Alternate route to non-HTR</td>
<td>A</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Direct route to non-HTR</td>
<td>0%</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Alternate route to HTR</td>
<td>100%</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Direct route to HTR</td>
<td>0%</td>
</tr>
<tr>
<td></td>
<td>RL2</td>
<td>Alternate route to non-HTR</td>
<td>0%</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Direct route to non-HTR</td>
<td>0%</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Alternate route to HTR</td>
<td>100%</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Direct route to HTR</td>
<td>75%</td>
</tr>
</tbody>
</table>

For example, if the RL2 reservation level is triggered and the response category chosen is 'C', TR will be applied to 100% of the alternate route non-HTR traffic, 0% of the direct route non-HTR traffic, 100% of the alternate route HTR traffic and 75% of the direct route HTR traffic.
= Control (CNTL) action. Valid value(s):
   CNT = TR cancel-to control (default).
   SKIP = TR skip control.

= Automatic reservation adjustment (ARA) status. Valid value(s):
   N = ARA is not in effect (default).
   Y = ARA is in effect. RL1 and RL2 must be specified as non-zero.

= Control status. Valid value(s):
   N = The control will be in effect (default).
   Y = Inhibit control until allowed by the ALW:TR input message.

4. SYSTEM RESPONSE

PF = Printout follows. Followed by the ASGN:TR output message.

RL = Retry later. May also include:
   - RESOURCE SHORTAGE = The necessary resources are not available.

5. REFERENCES

Input Message(s):

ALW:TR
ASGN:SSTR
CLR:TR
CLR:TROVRD
INH:TR
OP:TR
SET:TROVRD

Output Message(s):

ASGN:SSTR
ASGN:TR

Other Manual(s):
235-190-115 Local and Toll System Features

MCC Display Page(s):
130 NM EXCEPTION
12. AUD
AUD:0

Software Release: 5E14 and later
Command Group: N/A
Application: 5
Type: Input

1. PURPOSE
   To verify the dynamic data of an application audit. Refer to the Audits manual for specific information.

2. FORMAT
   AUD: [a], [SM=b [&&c]] [ENV=d] [CMP=e];

3. EXPLANATION OF MESSAGE
   a = Audit name. Refer to the Audits manual for specific information.
   b = Switching module (SM) number or beginning of the range of numbers.
   c = End of the range of SM numbers.
   d = Kernel process. Valid value(s):
       OKP = Operational.
       SMKP = Switch maintenance.
   e = Communication module processor (CMP) number.

4. SYSTEM RESPONSE
   Refer to Table 2-1 in the Input Messages User Guidelines.

5. REFERENCES

IM/OM References:
   None.

Other Manual(s):
   235-600-400 Audits
AUD:_CMP

Software Release: 5E14 and later
Command Group: AUDIT
Application: 5
Type: Input

1. PURPOSE

Requests a communication module processor (CMP) audit to be run in one CMP.

2. FORMAT

AUD:a,CMP=b[,PRIM|,MATE];

3. EXPLANATION OF MESSAGE

a = Audit ID for an application audit.
b = CMP number.

4. SYSTEM RESPONSE

NG = No good. May also include:
- AUDIT NOT AVAILABLE IN CMP = The request has been denied because the specified audit
does not exist in the specified processor type.
- INVALID REQUEST FOR INTERPROCESSOR AUDIT = The requested audit is not valid on the
specified processor.
- UNAVAILABLE OR INVALID CMP = The specified CMP is unavailable or does not exist.

PF = Printout follows. The request has been received. One or more of the following audit output
messages are printed: AUD:CMP-ABORTED, AUD:CMP-COMPL, AUD:CMP-DUMP,
AUD:CMP-ERROR, and AUD:CMP-FAILURE.

5. REFERENCES

Output Message(s):

AUD:CMP-ABORTED
AUD:CMP-COMPL
AUD:CMP-DUMP
AUD:CMP-ERROR
AUD:CMP-FAILURE

Other Manual(s):
235-600-400 Audits
AUD:CNC

Software Release: 5E14 and later
Command Group: AUDIT
Application: 5
Type: Input

1. PURPOSE

Requests that the central node control (CNC) audit be initiated. Internal ring node maintenance records are audited for inconsistencies which could prevent jobs (such as RST:LN) from progressing or cause jobs to be aborted unnecessarily. (This audit is also executed automatically.)

2. FORMAT

AUD:CNC=1[:{a|b|a,b}];

3. EXPLANATION OF MESSAGE

Routine execution of this audit may be inhibited by UNIX® RTR Operating System Administration Module (AM) during outages of the interprocess message switch (IMS) subsystem. This can be checked by using the OP:AUD input message and routine execution can be resumed by using the ALW:AUD input message.

a = Specifies whether the audit should correct errors. Valid value(s):
   CORR = Correction should occur (default).
   NCG  = Inhibit error correction.

b = Specifies the level of detail of error reporting. Valid value(s):
   DETL = Generate a raw data report for each error found (default).
   SUM  = Generate only an audit completion message when the audit terminates.

4. SYSTEM RESPONSE

Refer to the System Responses Table in the Input Messages User Guidelines.

5. REFERENCES

Input Message(s):
   ALW:AUD
   INH:AUD
   OP:AUD
   OP:AUDERR
   STOP:AUD

Other Manual(s):
   235-600-400  Audits
   235-200-115  CNI Common Channel Signaling
   235-200-116  Signaling Gateway Common Channel Signaling
AUD:CUMEM

Software Release: 5E14 and later
Command Group: AUDIT
Application: 5,3B
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Requests that the standby control unit memory (CUMEM) audit be run in the standby control unit (CU), comparing the contents of the online and off-line main stores when in the ACT/ACT or ACT/STBY modes.

WARNING: This audit can take more than 180 minutes to run and can degrade the performance of other UNIX® RTR system audits. Excessive audit errors may result in a hardware reconfiguration with one CU being left out-of-service.

2. FORMAT

AUD:CUMEM=1 [::a|:b|:a,b];

3. EXPLANATION OF MESSAGE

a = Indicates whether audit should correct errors. Valid value(s):
   CORR = Audit should correct errors (default).
   NCG = Audit does not correct errors.

b = Indicates what type of report or message to generate. Valid value(s):
   DETL = Generate a raw data report for each error found followed by an audit completion message. (Default). (A limited number of reports is generated.)
   SUM = Generate only an audit completion message when the audit terminates. Raw data reports are not created for any errors that are found.

4. SYSTEM RESPONSE

Refer to the APP:AUD appendix in the Appendixes section of the Output Messages manual.

5. REFERENCES

Input Message(s):
   OP:AUD
   RST:CU
   STOP:AUD
   STP:AUD

Output Message(s):
   AUD:CUMEM
**AUD:CUSTAT**

**Software Release:** 5E14 and later  
**Command Group:** AUDIT  
**Application:** 5,3B  
**Type:** Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. **PURPOSE**

Requests that the control unit hardware status (CUSTAT) audit be run in the manual mode.

**WARNING:** Excessive audit errors may result in a hardware reconfiguration with one control unit (CU) being left out-of-service.

2. **FORMAT**

AUD:CUSTAT=1[:a|:b|:a,b];

3. **EXPLANATION OF MESSAGE**

a = Indicates whether audit should correct errors. Valid value(s):
   - **CORR** = Audit should correct errors (default).
   - **NCG** = Audit does not correct errors.

b = Indicates what type of report or message to generate. Valid value(s):
   - **DETL** = Generate a raw data report for each error found followed by an audit completion message (default). (A limited number of reports is generated.)
   - **SUM** = Generate only an audit completion message when the audit terminates. Raw data reports are not created for any errors that are found.

4. **SYSTEM RESPONSE**

Refer to the APP:AUD appendix in the Appendixes section of the Output Messages manual.

5. **REFERENCES**

**Input Message(s):**

- OP:AUD
- STOP:AUD
- STP:AUD

**Input Appendix(es):**

- APP:AUD

**Output Message(s):**
AUD: CUSTAT
OP: AUD

Other Manual(s):
235-600-400   Audits
AUD:ECD

Software Release: 5E14 and later
Command Group: AUDIT
Application: 5,3B
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Requests that the equipment configuration database (ECD) be audited.

Format 1 audits the incore ECD. Format 2 runs a structural audit of the minimum configuration ECD. Format 3 runs a structural audit of the full configuration ECD.

WARNING: Running ECD audit 1 or 3; while diagnostics are running can result in mutilation of database records.

2. FORMAT

[1] AUD:ECD=a[:b|:c]:b,c;
[2] AUD:ECD=2,INS="ecd"[:b|:c]:b,c;
[3] AUD:ECD=2,INS="appecd"[:b|:c]:b,c;

3. EXPLANATION OF MESSAGE

a

= Specifies the type of incore ECD audit. Valid value(s):
1 = Structural audit.
3 = Raw data audit.

b

= Indicates whether audit should correct errors. Valid value(s):
CORR = Audit should correct errors (default).
NCG = Audit does not correct errors.

c

= Indicates what type of report or message to generate. Valid value(s):
DETL = Generate a raw data report for each error found followed by an audit completion message (default). (A limited number of reports is generated.)
SUM = Generate only an audit completion message when the audit terminates. Raw data reports are not created for any errors that are found.

4. SYSTEM RESPONSE

Refer to the APP:AUD appendix in the Appendixes section of the Output Messages manual.

5. REFERENCES

Input Message(s):
OP: AUD
STOP: AUD
STP: AUD

Input Appendix(es):
APP: AUD

Output Message(s):
AUD: ECD
OP: AUD

Other Manual(s):
235-600-400  Audits
AUD:ECDOWN

Software Release: 5E14 and later
Command Group: AUDIT
Application: 5,3B
Type: Input

1. PURPOSE

Requests that the equipment configuration database manager (ECDMAN) audit of record ownership be run. This audit releases reserved records for processes that have died.

2. FORMAT

AUD:ECDOWN=1[:a|:b|:a,b];

3. EXPLANATION OF MESSAGE

a = Indicates whether audit should correct errors. Valid value(s):
CORR = Audit should correct errors (default).
NCG = Audit does not correct errors.

b = Indicates what type of report or message to generate. Valid value(s):
DETL = Generate a raw data report for each error found followed by an audit completion message. (default). (A limited number of reports is generated.)
SUM = Generate only an audit completion message when the audit terminates. Raw data reports are not created for any errors that are found.

4. SYSTEM RESPONSE

Refer to the APP:AUD appendix in the Appendixes section of the Output Messages manual.

5. REFERENCES

Input Message(s):
OP:AUD
STOP:AUD
STP:AUD

Output Message(s):
AUD:ECDOWN
OP:AUD

Input Appendix(es):
APP:AUD

Other Manual(s):
235-600-400 Audits
AUD:ENV

Software Release: 5E14 and later
Command Group: AUDIT
Application: 5
Type: Input

1. PURPOSE
Requests a kernel process environment (OKP or SMKP) audit to be run in the administrative module.

2. FORMAT
AUD:a,ENV=b;

3. EXPLANATION OF MESSAGE

a = Audit ID for an application audit.

b = Kernel process. Valid value(s):
   OKP = Operational.
   SMKP = Switch maintenance.

4. SYSTEM RESPONSE
NG = No good. May also include:
   - AUDIT NOT AVAILABLE IN SPECIFIED ENV = The request has been denied because the specified audit is not available in the requested kernel process.
   - AUDIT NOT AVAILABLE IN SPECIFIED ENV=SMKP = The request has been denied because the specified audit is not available in the requested kernel process. Specifically, ENV=SMKP audits are not available in the very compact digital exchange (VCDX) application.
   - SM TYPE NOT VALID FOR THIS REQUEST = The request has been denied because an SM type was specified for a kernel process environment.

PF = Printout follows. The AUD:ENV-COMPL output message follows. One or more of the following output messages may also be printed: AUD:ENV-ABORTED, AUD:ENV-DUMP, AUD:ENV-ERROR, AUD:ENV-FAILURE.

5. REFERENCES

Output Message(s):
   AUD:ENV-ABORTED
   AUD:ENV-COMPL
   AUD:ENV-DUMP
   AUD:ENV-ERROR
   AUD:ENV-FAILURE

Other Manual(s):
235-600-400 Audits
AUD:FILES

Software Release: 5E14 and later
Command Group: FHADM
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Requests that a simple existence audit of files on the disks be run.

WARNING: This message is intended to be used as an aid for filesystem maintenance. Improper corrective action could result in missing system files which could lead to system degradation and/or loss of call processing.

2. FORMAT

AUD:FILES;

3. EXPLANATION OF MESSAGE

No variables.

4. SYSTEM RESPONSE

PF = Printout follows. Followed by the AUD:FILES output message.

5. REFERENCES

Output Message(s):

AUD:FILES
AUD:FMGR

Software Release: 5E14 and later
Command Group: AUDIT
Application: 5,3B
Type: Input

1. PURPOSE

Requests that the resources of the file manager (FMGR) be audited.

2. FORMAT

AUD:FMGR=a[:b|:c|:b,c];

3. EXPLANATION OF MESSAGE

a
  = Specifies the member number of the FMGR audit. Valid value(s):
  1   = Task queue audit.
  2   = Internal inode table audit.
  3   = Hash table and internal inode pointer table audit.
  4   = File table audit.
  5   = Internal capability table audit.
  6   = Buffer audit.
  7   = Mount table audit.
  8   = Delayed queue audit.
  9   = Message queue audit.

b
  = Indicates whether audit should correct errors. Valid value(s):
  CORR = Audit should correct errors (default).
  NCG  = Audit does not correct errors.

c
  = Indicates what type of report or messages should be generated. Valid value(s):
  DETL = Generate a raw data report for each error found followed by an audit completion message. (Default). (A limited number of reports is generated.)
  SUM  = Generate only an audit completion message when the audit terminates. Raw data reports are not created for any errors that are found.

4. SYSTEM RESPONSE

Refer to the APP:AUD appendix in the Appendixes section of the Input Messages manual.

5. REFERENCES

Input Message(s):

  OP:AUD
  STOP:AUD
  STP:AUD
Output Message(s):

AUD:FMGR1
AUD:FMGR2
AUD:FMGR3
AUD:FMGR4
AUD:FMGR5
AUD:FMGR6
AUD:FMGR7
AUD:FMGR8
AUD:FMGR9
OP:AUD

Input Appendix(es):

APP:AUD

Other Manual(s):
235-600-400  Audits
AUD:FSBLK
Software Release: 5E14 and later
Command Group: AUDIT
Application: 5,3B
Type: Input

1. PURPOSE
Requests that the file system block audit be run. This audit can be run on a mounted or unmounted file system.

2. FORMAT
AUD:FSBLK=a,INS="b"[:c|:d|:c,d] [PARAM="e"];

3. EXPLANATION OF MESSAGE

a = Member number to be audited.

NOTE: The value input for 'a' is dependent upon the instance. Refer to the APP:AUD-SDF appendix in the Appendixes section of the Input Messages manual.

b = Instance to be audited. Instance names are the special device files corresponding to the file system audited. Refer to the APP:AUD-SDF appendix in the Appendixes section of the Input Messages manual for a complete list of device file names.

c = Audit action. Valid value(s):
CORR = Audit should correct errors.
NCG = Audit does not correct errors (default).

d = Type of report. Valid value(s):
DETL = Generate a detailed raw data report for each error found followed by an audit completion message (default). (A limited number of reports is generated.)
SUM = Generate only a summary audit completion message when the audit terminates. Raw data reports are not created for any errors that are found.

e = Backup parameter. This field is used to check the file system for the appropriateness of generating a backup tape. When specified, the audit may report error conditions that, normally, would not be considered errors, but could result in the creation of an improper backup tape. These errors are not correctable.

4. SYSTEM RESPONSE
Refer to the APP:AUD appendix in the Appendixes section of the Input Messages manual.

5. REFERENCES
Input Message(s):
AUD:FSLINK
OP:AUD
OP:FNAME
STOP:AUD
STP: AUD

Output Message(s):
    AUD: FSBLK
    OP: AUD

Input Appendix(es):
    APP: AUD
    APP: AUD–SDF

Other Manual(s):
    235-105-210  Routine Operations and Maintenance
    235-600-400  Audits
AUD:FSCMPT

Software Release: 5E14 and later
Command Group: AUDIT
Application: 5,3B
Type: Input

1. PURPOSE

Requests that the file system compaction audit be run. This audit can be run on a mounted or unmounted file system.

2. FORMAT

AUD:FSCMPT=a,INS "b[:c|:d|:c,d][:PARAM "{e|f|e,f}"];

3. EXPLANATION OF MESSAGE

a = Member number of the FSCMPT audit. Valid value(s):
   1 = The administrative module (AM) audit member number.

b = Instance to be audited. Instance names are the special device files corresponding to the file system audited. Refer to the APP:AUD-SDF appendix in the Appendixes section of the Input Messages manual for specific device file names.

c = Audit action. Valid value(s):
   CORR = Audit should correct errors, and complete the compaction (default).
   NCG = Audit should not correct errors, and should not do the compaction.

d = Type of report. Valid value(s):
   DETL = Generate a raw data report for each error found followed by an audit completion message (default). (A limited number of reports is generated.)
   SUM = Generate only an audit completion message when the audit terminates. Raw data reports are not created for any errors that are found.

e = Type of effort compaction. Valid value(s):
   MIN = Perform or report for a minimum effort compaction (default).
   MAX = Perform or report for a maximum effort compaction.

f = Amount of regular file blocks to be relocated. Valid value(s):
   COND = Limit number of regular file blocks relocated to achieve compaction (default).
   UCL = An unlimited number of regular file blocks may be relocated to achieve compaction.

4. SYSTEM RESPONSE

Refer to the APP:AUD appendix in the Appendixes section of the Input Messages manual.

5. REFERENCES
Input Message(s):

AUD:FSBLK
AUD:FSLINK
OP:AUD
OP:FNAME

Input Appendix(es):

APP:AUD
APP:AUD-SDF

Output Message(s):

AUD:FSCMPT
OP:AUD

Other Manual(s):
235-105-210  Routine Operations and Maintenance
235-600-400  Audits
AUD:FSLINK

**Software Release:** 5E14 and later  
**Command Group:** AUDIT  
**Application:** 5,3B  
**Type:** Input

1. **PURPOSE**

Requests that the file system link audit be run. This audit can be run on a mounted or unmounted file system.

2. **FORMAT**

AUD:FSLINK=a,INS="b"[:c|:d|:c,d][:PARAM="e"];

3. **EXPLANATION OF MESSAGE**

   a = Member number to be audited.  

   **NOTE:** The value input for 'a' is dependent upon the instance. Refer to the APP:AUD-SDF appendix in the Appendixes section of the Input Messages manual.

   b = Instance to be audited. Instance names are the special device files corresponding to the file system audited. Refer to the APP:AUD-SDF appendix in the Appendixes section of the Input Messages manual for a complete list of special device file names.

   c = Audit action. Valid value(s):

   - **CORR** = Audit should correct errors.
   - **NCG** = Audit does not correct errors (default).

   d = Type of report. Valid value(s):

   - **DETL** = Generate a raw data report for each error found followed by an audit completion message (default). (A limited number of reports is generated.)
   - **SUM** = Generate only an audit completion message when the audit terminates. Raw data reports are not created for any errors that are found.

   e = BACKUP parameter. This field is used to check the file system for the appropriateness of generating a backup tape. When specified, the audit may report error conditions that, normally, would not be considered errors, but could result in the creation of an improper backup tape. These errors are not correctable.

4. **SYSTEM RESPONSE**

Refer to the APP:AUD appendix in the Appendixes section of the Input Messages manual.

5. **REFERENCES**

Input Message(s):

- **AUD:FSBLK**
- **OP:AUD**
- **OP:FNAME**
- **STOP:AUD**
STP: AUD

Output Message(s):

AUD: FSLINK
OP: AUD

Input Appendix(es):

APP: AUD
APP: AUD-SDF

Other Manual(s):
235-105-210  Routine Operations and Maintenance
235-600-400  Audits
AUD:LKBDST

Software Release: 5E14 and later
Command Group: AUDIT
Application: 5,CNI
Type: Input

1. PURPOSE

To initiate the link status and band status audit. This audit compares link status data and band-related status data in
the link node and in the administrative module (AM) with associated reference data in the AM. When requested
without specifying a particular node or the ALL option, the system will select a single node to be audited. The node
selected will be the next node in the routine audit sequence.

NOTE: Routine execution of this audit may be inhibited by the UNIX® RTR system during outages of the common
network interface (CNI) subsystem. This may be verified using the OP:AUD input message. Routine
execution may be resumed by using the ALW:AUD input message.

2. FORMAT

AUD:LKBDST=1[:a][:PARAM="NODE{ ALL|(b,c)}"];

3. EXPLANATION OF MESSAGE

ALL = Audit all nodes. If a particular node is desired, use the group-member number designation.

a = Level of detail of error reporting. Valid value(s):
DETL = Generate a raw data report for each error found. This is the default value.
SUM = Generate only an audit completion message when the audit terminates.

b = Group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input
Messages manual.

c = Member number. Refer to the APP:RANGES appendix in the Appendixes section of the Input
Messages manual.

4. SYSTEM RESPONSE

PF = Printout follows. Followed by the AUD:ENV-LKBDST output message.

5. REFERENCES

Input Message(s):

ALW:AUD
INH:AUD
OP:AUD
OP:AUDERR
STOP:AUD

Output Message(s):
AUD:MMGR

Software Release: 5E14 and later
Command Group: AUDIT
Application: 5,3B
Type: Input

1. PURPOSE

Requests that the memory manager audits be run. The first three audits validate the segment descriptor table, page tables and the page descriptor table, and recover lost pages and page tables. The segment release audit completes an interrupted segment breakdown procedure. The segment unlock audit releases old iolocked segments.

2. FORMAT

AUD:MMGR=a[:b|:c|:b,c];

3. EXPLANATION OF MESSAGE

a

= Member number of the audit. Valid value(s):
1 = Segment descriptor table audit.
2 = Page table audit.
3 = Page descriptor table audit.
4 = Segment release audit.
5 = Segment unlock audit.
9 = Swap space compaction audit.

b

= Audit action. Valid value(s):
CORR = Audit should correct errors (default).
NCG = Audit does not correct errors.

C

= Type of report. Valid value(s):
DETL = Generate a raw data report for each error found followed by an audit completion message (default). (A limited number of reports is generated.)
SUM = Generate only an audit completion message when the audit terminates. Raw data reports are not created for any errors that are found.

4. SYSTEM RESPONSE

Refer to the APP:AUD appendix in the Appendixes section of the Input Messages manual.

5. REFERENCES

Input Message(s):

OP:AUD
STOP:AUD
STP:AUD

Output Message(s):
AUD:MSGBUF

**Software Release:** 5E14 and later
**Command Group:** AUDIT
**Application:** 5,3B
**Type:** Input

1. **PURPOSE**

Requests that the message buffer (MSGBUF) resources be audited.

2. **FORMAT**

AUD:MSGBUF=a[:b|:c|:b,c];

3. **EXPLANATION OF MESSAGE**

a  = Member number of the audit. Valid value(s):
   1  = Message buffer queue audit.
   2  = Message buffer extender block audit.

b  = Audit action. Valid value(s):
   CORR  = Audit should correct errors (default).
   NCG   = Audit does not correct errors.

c  = Type of report. Valid value(s):
   DETL  = Generate a raw data report for each error found followed by an audit completion message (default). (A limited number of reports is generated.)
   SUM   = Generate only an audit completion message when the audit terminates. Raw data reports are not created for any errors that are found.

4. **SYSTEM RESPONSE**

Refer to the APP:AUD appendix in the Appendixes section of the Input Messages manual.

5. **REFERENCES**

**Input Message(s):**

- OP:AUD
- STOP:AUD
- STP:AUD

**Output Message(s):**

- AUD:MSGBUF
- OP:AUD
- REPT:KAUDPRC

**Input Appendix(es):**
APP : AUD

Other Manual(s):
235-600-400  Audits
AUD:NIDATA

Software Release: 5E14 and later
Command Group: AUDIT
Application: 5
Type: Input

1. PURPOSE

Requests that the internal data audits be run on the recent changeable tables. These audits compare data table copies stored on disk with copies of the same tables residing in memory in the administrative module (AM) and report any mismatches. Tables are also checked for invalid data within tables and for inconsistencies across tables. Errors that cannot be corrected using recent change will be corrected by the audit mechanism.

2. FORMAT

AUD:NIDATA=a[:DETL|:SUM];

3. EXPLANATION OF MESSAGE

DETL = Generate a raw data report for each error found. (Only a limited number of such reports can be generated.)

SUM = Generate an audit completion message when the audit terminates. Do not create raw data reports for any errors that are found.

a = The type of data table to be audited. Valid value(s):
1 = Office identification data.
2 = Link configuration data.
3 = Logical-physical translation data.
4 = Common channel signaling system 7 (CCS7) routing data.
5 = Subsystem information data.
8 = Global title translator data.

NOTE: NIDATA8 has a special trigger mechanism. This audit does not run until after a common network interface (CNI) recent change/verify (RC/V) of screen 15.11 in any mode (I,U,D,R). Any message received before a RC/V transaction is invalid.

10 = Protocol timers/parameters data

4. SYSTEM RESPONSE

PF = Printout follows. The AUD:NIDATA output message follows.

5. REFERENCES

Input Message(s):

ALW:AUD
INH:AUD
OP:AUD
OP:AUDERR

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STOP: AUD

Output Message(s):

AUD: ENV-NIDATA01
AUD: ENV-NIDATA02
AUD: ENV-NIDATA03
AUD: ENV-NIDATA04
AUD: ENV-NIDATA05
AUD: ENV-NIDATA08
AUD: ENV-NIDATA10

Other Manual(s):
235-190-120 Common Channel Signaling Service Features
235-600-400 Audits Manual
1. PURPOSE

NMDATA is the audit family name for the group of audits concerned with the integrity of network management dynamic data.

NMDATA 1 audits the routing tables. The routing tables consist of the network table, cluster table, page access table, the member table, the link set translation table, the routing priority index (RPI) status table, and the director index to network table. One aspect of the routing tables structure is the dynamic allocation and deallocation of slots in the page access table and the member table (those tables are also referred to as the paging tables) as different network events (such as remote link failures or congestion) occur. Common network interface (CNI) processes and maintains status information for the point code affected by those events. Those paging tables that are used in the allocation/deallocation of slots are audited to ensure that pointers connecting the tables are valid. The free entries for the paging tables are audited as well as the used entries. The fields in the routing tables that are used when routing or updating status information about a point code are also audited by NMDATA 1. The audit looks at inconsistencies between the different fields and among the different routing tables. A copy of the data being audited is also found in the direct link node (DLN). When changes are made to the administrative module (AM) master copy as a result of error correction, the remote node copy is updated by using REMACS.

NOTE: The application is not notified of the change to the data as a result of error correction. For this reason, it is recommended that NMDATA 1 always runs in error detection mode only.

NMDATA 2 audits the loadshare tables in the AM. The loadshare tables are used for message routing in the direct link node (DLN), the D-channel node (DCHN) and the AM. The copy of the loadshare tables in the AM is the master copy and the remote nodes are updated using REMACS if error correction results in any changes to the master copy.

NOTE: NMDATA 2 is different than NMDATA 1 in that a loadshare table update report will be sent to the application if error correction results in any changes to the master copy of the tables.

WARNING: CNI does not recommend running this audit in error correction mode. Error correction mode should only be used under the guidance of CNI customer support because of the critical nature of the data being audited. CNI customer support should always be notified in the event of an error.

2. FORMAT

AUD:NMDATA={a[:b|:c|:b,c];}

3. EXPLANATION OF MESSAGE

a  = Specifies the audit member to be run. Valid value(s):
    1  = Routing tables linked list and consistency check audit.
    2  = Loadshare tables audit.

b  = Audit action. Valid value(s):
CORR = Indicates error-correction mode.
NCG = Indicates error-detection mode.

The default value is contained within the equipment configuration database (ECD) record for this audit (audrec).

c = Type of report. Valid value(s):
DETL = Indicates a raw data report for each error found should be generated (default). The raw data report(s) are followed by an audit completion message. A limited number of reports is generated.
SUM = Indicates only an audit completion message is generated when the audit terminates and in that case raw data reports are not created for any errors that are found.

4. SYSTEM RESPONSE

PF = Printout follows. Followed by the AUD:NMDATA output message.

5. REFERENCES

Input Message(s):
ALW: AUD
INH: AUD
OP: AUD
OP: AUDERR
STOP: AUD

Output Message(s):
AUD: ENV-NMDATA1
AUD: ENV-NMDATA2

Other Manual(s):
235-600-400 Audits
AUD:NODEST

Software Release: 5E14 and later
Command Group: AUDIT
Application: 5,CNI
Type: Input

1. PURPOSE

Requests that ring node (RN) state audits be initiated.

The node availability map audit compares the two principal records within the Interface Module System (IMS) driver process of the states of ring nodes. It does not check the major state in the equipment configuration database (ECD). This map contains a flag for each ring node indicating whether the node is an IMS user node (IUN) in the active (ACT) state. It is used primarily by the neighboring "audit" and to send state updates after changes in ring configuration and after initializations. The audit compares the map to the major states of the nodes recorded in the IMS driver process. When errors are detected the map is corrected to agree with the major states. Routine execution of these audits may be inhibited by UNIX® RTR during outages of the IMS subsystem. This can be checked by using the OP:AUD input message and routine execution can be resumed by using the ALW:AUD input message.

2. FORMAT

AUD:NODEST=1[:{a|b|a,b}];

3. EXPLANATION OF MESSAGE

1 = Audit the node availability map. (This audit is also automatically scheduled.)

a = Specifies whether the audit should correct errors. Valid value(s):
   CORR = Indicates correction should occur (default).
   NCG  = Inhibits error correction.

b = Specifies the level of detail of error reporting. Valid value(s):
   DETL = Generate a raw data report for each error found (default).
   SUM  = Generate only an audit completion message when the audit terminates.

4. SYSTEM RESPONSE

PF = Printout follows.

5. REFERENCES

Input Message(s):

   ALW:AUD
   INH:AUD
   OP:AUD
   OP:AUDERR
   STOP:AUD
Other Manual(s):
235-600-400  Audits
235-190-120  Common Channel Signaling Service Features
AUD:PMS

Software Release: 5E14 and later
Command Group: AUDIT
Application: 5,3B
Type: Input

1. PURPOSE
Requests that the plant measurements system (PMS) database audit be run.

2. FORMAT
AUD:PMS=1[:a|:b|:a,b];

3. EXPLANATION OF MESSAGE

a = Audit action. Valid value(s):
   CORR = Audit should correct errors (default).
   NCG = Audit does not correct errors.

b = Type of report. Valid value(s):
   DETL = Generate a raw data report for each error found followed by an audit completion message (default). (A limited number of reports is generated.)
   SUM = Generate only an audit completion message when the audit terminates. Raw data reports are not created for any errors that are found.

4. SYSTEM RESPONSE
Refer to the APP:AUD appendix in the Appendixes section of the Input Messages manual.

5. REFERENCES
Input Message(s):
   OP:AUD
   STOP:AUD
   STP:AUD

Output Message(s):
   AUD:PMS
   OP:AUD

Input Appendix(es):
   APP:AUD

Other Manual(s):
235-600-400 Audits
**AUD:PROAD**

Software Release: 5E14 and later  
Command Group: AUDIT  
Application: 5,3B  
Type: Input

1. **PURPOSE**

Audits the directly connected trunks (DCT) extended (DCTEXT), searching for suspended process creations (including forks) and terminations. It also searches for processes which have been suspended from execution for over 30 minutes and terminates them.

2. **FORMAT**

```
AUD:PROAD=1[:a|:b|:a,b];
```

3. **EXPLANATION OF MESSAGE**

   a  = Audit action. Valid value(s):
      CORR  = Audit should correct errors (default).
      NCG   = Audit does not correct errors.

   b  = Type of report. Valid value(s):
      DETL  = Generate a raw data report for each error found followed by an audit completion message (default). A limited number of reports is generated.
      SUM   = Generate only an audit completion message when the audit terminates. Raw data reports are not created for any errors that are found.

4. **SYSTEM RESPONSE**

Refer to the APP:AUD appendix in the Appendixes section of the Input Messages manual.

5. **REFERENCES**

Input Message(s):

   OP:AUD  
   STOP:AUD  
   STP:AUD

Output Message(s):

   AUD:PROAD  
   OP:AUD

Input Appendix(es):

   APP:AUD

Other Manual(s):
AUD:SM

Software Release: 5E14 and later
Command Group: AUDIT
Application: 5
Type: Input

1. PURPOSE

Requests a switching module (SM) audit to be run in one SM or a range of SMs.

2. FORMAT

AUD:a,SM=b[&&c][,RSM][,LSM][,HSM][,ORM][,TRM];

3. EXPLANATION OF MESSAGE

NOTE: Refer to the Acronym section of the Input Messages manual for the full expansion of acronyms shown in the format.

a = Audit ID for an application audit.
b = SM number, or lower limit of a range of SM numbers.
c = Upper limit of a range of SM numbers.

4. SYSTEM RESPONSE

NG = No good. May also include:
   - AUDIT NOT AVAILABLE IN SM TYPE = The request has been denied because the specified audit does not exist in the specified processor type.
   - INVALID SM RANGE/TYPe COMBINATION = The request has been denied because of incorrect order of specified range or no equipped SMs in range.

PF = Printout follows. The request has been received. One or more of the following audit output message(s) are printed: AUD:SM-ABORTED, AUD:SM-COMPLETED, AUD:SM-DUMP, AUD:SM-ERROR, and AUD:SM-FAILURE.

5. REFERENCES

Output Message(s):

AUD:SM-ABORTED
AUD:SM-COMPLETED
AUD:SM-DUMP
AUD:SM-ERROR
AUD:SM-FAILURE

Other Manual(s):
235-600-400 Audits
13. BKUP
BKUP:ODD

Software Release: 5E14 and later
Command Group: ODD
Application: 5
Type: Input

1. PURPOSE

Requests a backup of the office-dependent data (ODD) to disk.

Format 1 requests a backup of the administrative module (AM) ODD, the communications module processor (CMP) ODD, non-redundant ODD (NRODD), redundant ODD (RODD), or the entire system. Format 2 requests to schedule the ODD backup to run periodically at specific intervals.

NOTE: During heavy recent change activity, an ODD backup has a slight chance of aborting because of a lack of resources for the backup to execute. Requesting ODD backup during heavy recent change activity is not recommended because this will affect the ODD backup and recent change performance and response time. If a backup aborts, re-request the ODD backup during a period of light recent change activity.

Failure of ODD backup will cause a minor alarm.

Format 3 requests the ODD backup in preparation for ODD evolution. This message should be entered immediately prior to the final ODD dump and should be used only once during a retrofit or a large terminal growth. This message removes recent change evolution files if they exist, and starts double-logging of recent changes (RCs) and customer originated recent changes (CORCs). Consult the Retrofit Procedures manual or the Large Terminal Growth Procedures manual before using this message.

2. FORMAT

[1] BKUP:ODD[,FULL][,AM][,CMP=0][,NRODD=a[&b]][,RODD=a][,COUNT];
[2] BKUP:ODD[,FULL][,AM][,CMP=0][,NRODD=a[&b]][,RODD=a][,EVERY=c,AT=d;
[3] BKUP:ODD[,FULL],ODDEVOL,TOGENERIC=e;

3. EXPLANATION OF MESSAGE

NOTE: Refer to the Acronym section of the Input Messages manual for the full expansion of acronyms shown in the format.

COUNT = Report the number of kilobytes of ODD backed up.

FULL = Back up the entire ODD unconditionally. If FULL is not specified, only those ODD blocks that have been altered since the last ODD backup will be backed up (a differential backup). The AM ODD backup is always a full backup (that is, a differential backup of the AM ODD is not available).

NOTE: The default is the entire system (the AM, the CMP, NRODDs of all SMs and RODD) if none is specified.

a = SM number or the lower limit of a range of SM numbers.

b = Upper limit of a range of SM numbers.

c = Interval in days (0-90) between successive ODD backup runs.
d = Time of day in hours and minutes when ODD is to be backed up.

e = Number of the software release to which the ODD is being evolved (for example, 6 for 5E6(1) software release).

4. SYSTEM RESPONSE

NG = No good. May also include:
   - INVALID SM RANGE = The input request is not valid.
   - INVALID CMP RANGE = The input request is not valid.

PF = Printout follows. Request accepted and the BKUP: ODD output message follows.

RL = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

Input Message(s):

ABT: ODDBKUP
CLR: ODDBKUP
OP: BKUPSTAT
STP: ODDEVOL

Output Message(s):

BKUP: ODD

Other Manual(s):

Where (x) is the release-specific version of the specified manual.

235-105-210 Routine Operations and Maintenance
235-105-24x Software Release Retrofit Procedures
235-105-44x Large Terminal Growth Procedures
BKUP:TRFM
Software Release: 5E16(1) and later
Command Group: TRFM
Application: 5
Type: Input

1. PURPOSE
Requests a backup of the traffic measurements settings to disk.

2. FORMAT
BKUP:TRFM[,UCL];

3. EXPLANATION OF MESSAGE
UCL = If this parameter is given then backup is performed unconditionally. All data in the relation will be removed!

4. SYSTEM RESPONSE
NG = No good. May also include:
- Found stored data, remove it or use parameter UCL to override. =
  Previously stored data wasn't restored and relation is not empty. Backup will not be performed. To avoid this error use UCL parameter or remove data using the RST:TRFM input message with the NOCHG option.

OK = Okay. May also include:
- Process completed successfully = Backup completed successfully.

5. REFERENCES
Other Manual(s):
235-040-100 Switch Operations, Administration and Maintenance Planning Guide
235-070-100 Administration and Engineering Guidelines
14. CFR
1. PURPOSE

Configure MHD0 and MHD1 to be the duplex boot disks.

This is only supported on a 3B21D Hardware Platform that is configured to support the recovery from the alternate boot disk feature. For this to complete successfully, the 3B21D must be booted with an alternate boot disk selected as one of the duplex boot disks and the UCB states of the system and alternate boot disks must meet the following criteria:

- If MHD0 is one of the current duplexed boot disks, its state must be ACT. MHD1 and the alternate boot disk must not be in the ACT, STBY, or INIT states.
- If MHD1 is one of the current duplexed boot disks, its state must be ACT. MHD0 and the alternate boot disk must not be in the ACT, STBY, or INIT states.

2. FORMAT

CFR:DUPLEXDISKS!

3. EXPLANATION OF MESSAGE

No variables.

4. SYSTEM RESPONSE

PF  Printout follows. Followed by the CFR:DUPLEXDISKS output message.

5. REFERENCES

Output Message(s):

CFR:DUPLEXDISKS
CFR:PMEM

Software Release: 5E14 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

This message configures the switching modules (SMs) physical memory after memory board growth to incorporate the memory added into the spare memory hole. The spare memory hole is located after standalone billing memory and before any peripheral images that may be loaded. After growing in physical memory, this input message is used to move the peripheral images into the new memory board and to merge the extra amount of memory into the spare memory hole. The SM will not be able to use the extra memory grown in until this input message is executed.

2. FORMAT

CFR:PMEM,SM=a[,REQST={GROW}];

3. EXPLANATION OF MESSAGE

a = SM number.

4. SYSTEM RESPONSE

PF = Printout follows. Request accepted and the CFR:PMEM output message follows.
RL = Retry later. Memory growth terminal process could not be created.

5. REFERENCES

Input Message(s):

DUMP:SMMAP

Output Message(s):

CFR:PMEM
DUMP:SMMAP
CFR:RING

**Software Release:** 5E14 and later  
**Command Group:** CCS  
**Application:** 5  
**Type:** Input

### 1. PURPOSE

Requests that the common network interface (CNI) ring be configured to include or exclude ring node(s) from the active ring segment, or if the ring is down, to initialize it.

**NOTE:** Ring reconfigurations abort diagnostics of ring nodes.

Ring configurations established by this request have no special permanence -- they are not remembered as having been requested manually and they do not change the ring interface hardware maintenance states of the nodes. For example, a ring segment isolated by this request and not containing a ring fault may be included back into the active ring segment by any subsequent ring configuration change, such as by a fault recovery, diagnostic, restore or subsequent CFR:RING request. An exception is that nodes in the GROW major state will always be kept isolated to prevent installation from causing ring recoveries.

The ring can not be reconfigured using the INCLUDE or EXCLUDE options if either the current BISO and/or EISO ring node is not active. A ring with an inactive BISO and/or EISO node is in a transient state. Restoration of this node(s) will be given top priority. The MOVFLT option may be used subject to limitations described above.

### 2. FORMAT

```
CFR:RING[[{[,RPCNa=b[,RPCNc=d]]|[,LNa=b[,LNC=d]]}],[,RPCNa=b[,RPCNc=d]|LNa=b[,LNC=d]]:EXCLUDE]|{[,RPCNa=b[,RPCNc=d]|LNa=b[,LNC=d]]:INCLUDE}|
[,RPCNa=b|LNa=b]:MOVFLT]);
```

### 3. EXPLANATION OF MESSAGE

**NOTE:** Refer to the Acronym section of the Input Messages manual for the full expansion of acronyms shown in the format.

**EXCLUDE**

= Isolate specified node(s) from the active ring segment. This may cause inclusion or isolation of other nodes to form a workable ring.

Active ring nodes can not be isolated.

A section of the ring can not be isolated such that the remaining active ring segment is too short. That is, the active ring segment must contain a minimum combination of ring nodes and interframe buffers to allow simultaneous propagation of long messages plus the token message. Note that when the system attempts to choose active BISO and EISO ring nodes to isolate a given requested range of node(s), this threshold could be crossed.

As with INCLUDE requests, if an isolated segment currently exists, the node or nodes requested must either include the BISO and/or EISO node(s) or, must already be excluded from the active ring segment.

**INCLUDE**

= Make ring nodes part of the active ring segment (default).

If node(s) are specified then only those nodes will be added to the active ring segment in response to this request.
If no nodes are specified then the new configuration will include as many nodes as possible. If the ring is down, it will be initialized.

If an isolated ring segment currently exists, the requested node or nodes must include the nearest isolated neighbor node or segment of the beginning of isolation (BISO) and/or end of isolation (EISO) nodes so as not to fragment the existing isolated segment.

**LN** = Link node.

**MOVFLT** = Move an indication of a faulty ring interface from the currently isolated ring node to the adjacent ring node, ‘a’, and reconfigure the ring so that ‘a’ becomes the isolated node.

Automatic ring error analysis cannot always determine which of two adjacent nodes is at fault. When manual maintenance indicates that the wrong ring node has been isolated, this request is used to correct the ring configuration. Such correction may not be possible using other methods because it may be essential to have an isolated node adjacent to the fault and the ring may be too small to allow both nodes to be isolated, even temporarily.

This form of the request is accepted only when a single node is currently isolated and the specified node, ‘a’, is adjacent (that is, ‘a’ is the BISO or EISO ring node) and is not undergoing restoration.

**NOTE:** The ring can not be reconfigured if either the current BISO or EISO ring node is not active. A ring with an inactive BISO or EISO node is in a transient state, its restoration is given top priority. The MOVFLT option may be used subject to limitations described above.

When the ring is down, the CFR:RING request (without options) will attempt to initialize the ring. This requires at least one RPCN node in the standby (STBY) state. (A successful RST:RPCN input request will leave the RPCN node in the STBY state when the ring is down). The ring initialization will not, in itself, restore any interprocess message switch (IMS) user node (IUN)s to service.

Ring initializations are much slower than ring reconfigurations. Allow several minutes per one hundred nodes equipped in the office.

**NOTE:** If the ring initialization is successful, any subsequent problems that cause it to go down will probably abort IMS unless manual ring mode is in effect. Refer to the REPT:MANUAL-RING output message for details.

The ring is reconfigured or initialized as per the INCLUDE or EXCLUDE keyword explanation above.

a = A ring node (RN) group number or lower limit of a range of RN group numbers (in the direction of flow of ring 0).

b = The RN member number or lower limit of a range of RN member numbers.

c = Upper limit of a range of RN's group numbers.

d = Upper limit of a range of RN's member numbers.

### 4. SYSTEM RESPONSE

**PF** = Printout follows. The CFR:RING output message follows.
5. REFERENCES

Input Message(s):

   RST: RPCN

Output Message(s):

   CFR: RING
   REPT: MANUAL-RING

Other Manual(s):
235-190-120  Common Channel Signaling Service Features

MCC Display Page(s):

   118 (CNI RING STATUS PAGE)
   1520 (RING NODE STATUS PAGE)
1. PURPOSE

Requests that the size of the Real Time Billing Memory (RTBM) on switching modules (SM's) be configured. Physical memory is allocated to the SM real time billing buffer for growth. The amount specified in the kbytes parameter will become the newly configured real time memory size and must be a multiple of 4. This message is used to configure the RTBM for all module types.

2. FORMAT

CFR:RTBM,SM=a,KBYTES=b;

3. EXPLANATION OF MESSAGE

a = SM number.
b = Number of kilobytes.

4. SYSTEM RESPONSE

NG = No good. May also include:
- MINIMUM SIZE MUST BE MAINTAINED = Real time memory must be greater than or equal to a minimum size.
- REQUEST EXCEEDS AVAILABLE MEMORY = The amount of real time memory specified exceeds the sum of the current size of real time memory plus the amount of available spare memory.
- REQUESTED SIZE NOT A MULTIPLE OF 4 = The size of real time billing memory specified by kbytes must be even. All sections of SM memory must be multiples of 4K.

PF = Printout follows. Request accepted. The CFR RTBM output message follows.

RL = Retry later. May also include:
- REAL TIME MEMORY NOT EMPTY = Real time memory is in use.

5. REFERENCES

Input Message(s):
DUMP:SMMAP
VFY:RTBM

Output Message(s):
CFR:RTBM
DUMP:SMMAP
CFR:SAMEM-A

Software Release: 5E14 only
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Requests that the size of the Stand Alone Billing Memory (SABM) on switching modules (SM’s) be configured. Physical memory is allocated to the SM standalone billing buffer for growth. The amount specified in the kbytes parameter will become the newly configured standalone memory size and must be a multiple of 4. This message is used to configure the SAMEM for all module types.

2. FORMAT

CFR:SAMEM,SM=a,KBYTES=b;

3. EXPLANATION OF MESSAGE

a = SM number.

b = Number of kilobytes.

4. SYSTEM RESPONSE

NG = No good. May also include:
- MINIMUM SIZE MUST BE MAINTAINED = Standalone memory must be greater than or equal to a minimum size.
- REQUEST EXCEEDS AVAILABLE MEMORY = The amount of standalone memory specified exceeds the sum of the current size of standalone memory plus the amount of available spare memory.
- REQUESTED SIZE NOT A MULTIPLE OF 4 = The size of standalone billing memory specified by kbytes must be even. All sections of SM memory must be multiples of 4K.

PF = Printout follows. Request accepted. The CFR SAME M output message follows.

RL = Retry later. May also include:
- STANDALONE MEMORY NOT EMPTY = Standalone memory is in use.

5. REFERENCES

Input Message(s):

DUMP:SMMAP
VFY:SAMEM

Output Message(s):

CFR:SAMEM
DUMP:SMMAP
VFY : SAMEM

Other Manual(s):
235-190-115  Local and Toll System Features
235-190-130  Local Area Services Features
235-900-113  Product Specification
CFR:SAMEM-B

Software Release: 5E15 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

The CFR:SAMEM command is used to configure the size of the Stand Alone Billing Memory (SABM) on switching modules (SMs). Physical memory is allocated to the SM SABM buffer for growth. The amount specified in the KBYTES parameter will become the new standalone memory size. The size of the SABM must be a multiple of four. This message is used to configure the SABM for all module types.

2. FORMAT

CFR:SAMEM,SM=a,KBYTES=b;

3. EXPLANATION OF MESSAGE

a = SM number.
b = Number of kilobytes.

4. SYSTEM RESPONSE

PF = Printout follows. Request accepted. The CFR SAMEM output message will follow. If there are problems in the request they will be reported in the CFR SAMEM output message. Successful SABM updates will also be reported in the CFR SAMEM report. See the CFR SAMEM output message manual page for more information.

RL = Retry later. SM is isolated.

5. REFERENCES

Input Message(s):

DUMP:SMMAP
VFY:SAMEM

Output Message(s):

CFR:SAMEM
DUMP:SMMAP
VFY:SAMEM

Other Manual(s):
235-190-115 Local and Toll System Features
235-190-130 Local Area Signaling Services
235-900-113 Product Specification
1. PURPOSE

Requests that a section or sections of switching module (SM) memory be allocated/deallocated from the spare memory hole for the peripheral image or images that resides in the peripheral unit specified on the input message line. The SM memory layout need no longer contain images for peripherals that are not equipped. This input message must be executed with a request type of GROW during the growth procedures for the first peripheral unit of each type grown on an SM. It should also be executed with a request type of DEGROW after the last peripheral unit of each type is degrown on an SM to reclaim memory and consolidate spare memory. If a request type of growth or degrowth is not specified, growth is the default.

2. FORMAT

CFR:SPRMEM,ODRID=a,SM=b[,REQST={c}][,UCL];

3. EXPLANATION OF MESSAGE

<table>
<thead>
<tr>
<th>UCL</th>
<th>SM peripheral hardware unit. Valid value(s):</th>
</tr>
</thead>
<tbody>
<tr>
<td>a</td>
<td>The set of two digital network unit - synchronous optical network (SONET) (DNU-S) resident software images and hashsums are allocated. This includes the DNUSCC and DNUSTMX images and hashsums.</td>
</tr>
<tr>
<td>DNUS</td>
<td>The 13K DSP software image and hashsum are allocated, for use with the PHV3 speech handlers.</td>
</tr>
<tr>
<td>DSP13K</td>
<td>The ACELP DSP software image and hashsum are allocated, for use with the PHV3 speech handlers.</td>
</tr>
<tr>
<td>DSPACELP</td>
<td>The EVRC DSP software image and hashsum are allocated, for use with the PHV3 speech handlers.</td>
</tr>
<tr>
<td>DSPVSELP</td>
<td>The VSELP DSP software image and hashsum are allocated, for use with the PHV3 speech handlers.</td>
</tr>
<tr>
<td>GDSF</td>
<td>The global digital services function (GDSF) resident operational software image and hashsum are allocated. The DSC3 diagnostic software image and hashsum are allocated in conjunction with this request if not already allocated.</td>
</tr>
<tr>
<td>IDCU</td>
<td>The set of three integrated digital carrier unit (IDCU) resident software images and hashsums are allocated. This includes the IDCUCCP, IDCULSI, and IDCUDLP images and hashsums.</td>
</tr>
<tr>
<td>ISLU</td>
<td>The integrated services line unit (ISLU) resident software image and hashsum are allocated.</td>
</tr>
<tr>
<td>ISLU2</td>
<td>The integrated services line unit model 2 (ISLU2) resident software image and hashsum are allocated.</td>
</tr>
<tr>
<td>ISTF</td>
<td>The integrated services test function (ISTF) resident operational software image and hashsum are allocated. The hardware digital service unit (HDSU) diagnostic software image and hashsum are allocated in conjunction with this request if not already allocated.</td>
</tr>
<tr>
<td>LDSF</td>
<td>The local digital service function (LDSF) resident operational software image and hashsum are allocated. The DSC3 diagnostic software image and hashsum are</td>
</tr>
</tbody>
</table>
allocated in conjunction with this request if not already allocated.

**LDSF2**  
The local digital service function 2 (LDSF2) resident operational software image and hashsum are allocated. The DSC4 diagnostic software image and hashsum are allocated in conjunction with this request if not already allocated.

**LDSU**  
The local digital service unit (LDSU) resident operational software image and hashsum are allocated. The HDSU diagnostic software image and hashsum are allocated in conjunction with this request if not already allocated.

**PH2**  
The set of four protocol handler model 2 (PH2) resident software images and hashsums are allocated. This includes the PH2A, PH2G, DDMA, and ODMA images and hashsums.

**PH22S**  
The set of two protocol handler model 22 (PH22) common channel signaling (CCS) resident software images and hashsums are allocated. This includes the PH22S and IP22S images and hashsums.

**PH3C**  
The set of two PH3 ISDN resident software images and hashsums are allocated. This includes the PH3C and OIOP images and hashsums.

**PH3S**  
The set of two protocol handler model 3 (PH3) common channel signaling (CCS) resident software images and hashsums are allocated. This includes the PH3S and IP3S images and hashsums.

**PH4ACC**  
The set of two protocol handler model 4 (PH4) resident access software images and hashsums are allocated. This includes the PH4ACCAP and the PH4ISDNIP images and hashsums.

**PH4GWY**  
The set of two PH4 resident gateway software images and hashsums are allocated. This includes the PH4GWYAP and the PH4ISDNIP images and hashsums.

**PH4IFR**  
The PH4 resident ISDN frame relay software IOP image (PH4IFRIP) and hashsum regions are allocated. If not already loaded, the PH4WLAP and the PH4ISDNIP (needed for diagnostics) images and hashsums will be allocated as well.

**PH4PP**  
The PH4 resident package pipe software IOP image (PH4PPIP) and hashsum regions are allocated. If not already loaded, the PH4WLAP and the PH4ISDNIP (needed for diagnostics) images and hashsums will be allocated as well. These images are used for CDMA and TDMA packet pipe applications.

**PHA1**  
The protocol handler for ATM (PHA1) resident software image (PHA1A) and hashsum are allocated.

**PHE1**  
The set of two protocol handler (PHE1) with SCSI/ethernet resident software images and hashsums are allocated.

**PHV1**  
The speech handler (PHV1) resident software image (PHV1C) and hashsum are allocated.

**PHV3C**  
The set of two speech handler (PHV3) resident software images and hashsums are allocated. This includes the PHV3C and DSP8K images and hashsums.

**PHV4C**  
The set of two speech handler (PHV4) resident software images and hashsums are allocated. This includes the PHV4C and V4DSP8K images and hashsums.

**PI**  
The packet interface (PI) resident software image and hashsum are allocated.

**PI2**  
The packet interface model 2 (PI2) resident software image and hashsum are allocated.

**RAF**  
The recorded announcement function (RAF) resident operational software image and hashsum are allocated. The HDSU diagnostic software image and hashsum are allocated in conjunction with this request if not already allocated.

**SAS**  
The operational and diagnostic service announcement system (SAS) resident software images and hashsums are allocated. This includes the SAS and HSAS images and hashsums.

**V4DSPEVRC**  
The EVRC DSP software images and hashsums are allocated, for use with the PHV4 speech handlers.
V4DSP13K = The 13K DSP software image and hashsum are allocated, for use with the PHV4 speech handlers.

V4DSPACELP = The ACELP DSP software image and hashsum are allocated, for use with the PHV4 speech handlers.

V4DSPISLP = The ISLP DSP software image and hashsum are allocated, for use with the PHV4 speech handlers.

V4DSPVSELP = The VSELP DSP software image and hashsum are allocated, for use with the PHV4 speech handlers.

\[ b \] = SM number.

\[ c \] = Request type. Valid value(s):

- DEGROW
- GROW

4. SYSTEM RESPONSE

PF = Printout follows. Request accepted and the CFR:SPRMEM output message follows.

RL = Retry later. Memory growth terminal process could not be created.

5. REFERENCES

Input Message(s):

DUMP:SMMAP

Output Message(s):

CFR:SPRMEM
DUMP:SMMAP
1. PURPOSE

Requests that a section or sections of switching module (SM) memory be allocated/deallocated from the spare memory hole for the peripheral image or images that resides in the peripheral unit specified on the input message line. The SM memory layout need no longer contain images for peripherals that are not equipped. This input message must be executed with a request type of GROW during the growth procedures for the first peripheral unit of each type grown on an SM. It should also be executed with a request type of DEGROW after the last peripheral unit of each type is degrown on an SM to reclaim memory and consolidate spare memory.

2. FORMAT

CFR:SPRMEM,ODRID=a,SM=b[,REQST=(c)][,UCL];

3. EXPLANATION OF MESSAGE

UCL = Unconditionally process the image(s) for the specified unit, ignoring checks for hardware equipage.

a = SM peripheral hardware unit. Valid value(s):
DNUS = The set of two digital network unit - synchronous optical network (SONET) (DNU-S) resident software images and hashsums are allocated. This includes the DNUSCC and DNUSTMX images and hashsums.
DSP13K = The 13K DSP software image and hashsum are allocated, for use with the PHV3 speech handlers.
DSPACELP = The ACELP DSP software image and hashsum are allocated, for use with the PHV3 speech handlers.
DSPEVRC = The EVRC DSP software image and hashsum are allocated, for use with the PHV3 speech handlers.
DSPVSELP = The VSELP DSP software image and hashsum are allocated, for use with the PHV3 speech handlers.
GDSF = The global digital services function (GDSF) resident operational software image and hashsum are allocated. The DSC3 diagnostic software image and hashsum are allocated in conjunction with this request if not already allocated.
IDCU = The set of three integrated digital carrier unit (IDCU) resident software images and hashsums are allocated. This includes the IDCUCCP, IDCULSI, and IDCUDLP images and hashsums.
ISLU = The integrated services line unit (ISLU) resident software image and hashsum are allocated.
ISLU2 = The integrated services line unit model 2 (ISLU2) resident software image and hashsum are allocated.
ISTF = The integrated services test function (ISTF) resident operational software image and hashsum are allocated. The hardware digital service unit (HDSU) diagnostic software image and hashsum are allocated in conjunction with this request if not already allocated.
LDSF = The local digital service function (LDSF) resident operational software image and hashsum are allocated. The DSC3 diagnostic software image and hashsum are allocated in conjunction with this request if not already allocated.
LDSF2 = The local digital service function 2 (LDSF2) resident operational software image and hashsum are allocated. The DSC4 diagnostic software image and hashsum are allocated in conjunction with this request if not already allocated.

LDSU = The local digital service unit (LDSU) resident operational software image and hashsum are allocated. The HDSU diagnostic software image and hashsum are allocated in conjunction with this request if not already allocated.

PH2 = The set of four protocol handler model 2 (PH2) resident software images and hashsums are allocated. This includes the PH2A, PH2G, DDMA, and ODMA images and hashsums.

PH22S = The set of two protocol handler model 22 (PH22) common channel signaling (CCS) resident software images and hashsums are allocated. This includes the PH22S and IP22S images and hashsums.

PH22W = The set of two protocol handler model 22 (PH22) wireless resident software images and hashsums are allocated. This includes the PH22W and IP22W images and hashsums.

PH3 = The set of two PH3 ISDN resident software images and hashsums are allocated. This includes the PH3C and OIOP images and hashsums.

PH3S = The set of two protocol handler model 3 (PH3) common channel signaling (CCS) resident software images and hashsums are allocated. This includes the PH3S and IP3S images and hashsums.

PH4ACC = The set of two protocol handler model 4 (PH4) resident access software images and hashsums are allocated. This includes the PH4ACCAP and the PH4ISDNIP images and hashsums.

PH4GWY = The set of two PH4 resident gateway software images and hashsums are allocated. This includes the PH4GWYAP and the PH4ISDNIP images and hashsums.

PH4IFR = The PH4 resident ISDN frame relay software IOP image (PH4IFRIP) and hashsum regions are allocated. If not already loaded, the PH4WLAP and the PH4ISDNIP (needed for diagnostics) images and hashsums will be allocated as well.

PH4PP = The PH4 resident package pipe software IOP image (PH4PPIP) and hashsum regions are allocated. If not already loaded, the PH4WLAP and the PH4ISDNIP (needed for diagnostics) images and hashsums will be allocated as well. These images are used for CDMA and TDMA packet pipe applications.

PHA1 = The protocol handler for ATM (PHA1) resident software image (PHA1A) and hashsum are allocated.

PHE1 = The set of two protocol handler (PHE1) with SCSI/Ethernet resident software images and hashsums are allocated.

PHV1 = The speech handler (PHV1) resident software image (PHV1C) and hashsum are allocated.

PHV3C = The set of two speech handler (PHV3) resident software images and hashsums are allocated. This includes the PHV3C and DSP8K images and hashsums.

PHV4C = The set of two speech handler (PHV4) resident software images and hashsums are allocated. This includes the PHV4C and V4DSP8K images and hashsums.

PHV5C = The set of two speech handler (PHV5) resident software images and hashsums are allocated. This includes the PHV5C and V5DSPCDMA images and hashsums.

PI = The packet interface (PI) resident software image and hashsum are allocated.

PI2 = The packet interface model 2 (PI2) resident software image and hashsum are allocated.

RAF = The recorded announcement function (RAF) resident operational software image and hashsum are allocated. The HDSU diagnostic software image and hashsum are allocated in conjunction with this request if not already allocated.

SAS = The operational and diagnostic service announcement system (SAS) resident
software images and hashsums are allocated. This includes the SAS and HSAS images and hashsums.

**V4DSPEVRC1** = The set of three EVRC DSP software images and hashsums are allocated, for use with the PHV4 speech handlers. This includes the V4DSPEVRC(FDTMF +TTY/TDD), V4DSPEVRC2(EC+TTY/TDD) and V4DSPEVRC3(EC+FDTMF) images and hashsums.

**V4DSP13K** = The 13K DSP software image and hashsum are allocated, for use with the PHV4 speech handlers.

**V4DSPACELP** = The ACELP DSP software image and hashsum are allocated, for use with the PHV4 speech handlers.

**V4DSPISLP** = The ISLP DSP software image and hashsum are allocated, for use with the PHV4 speech handlers.

**V4DSPVSELP** = The VSELP DSP software image and hashsum are allocated, for use with the PHV4 speech handlers.

**V5DSPCDMA** = The consolidated CDMA QCELP (which include QCELP 13K and all EVRC algorithm variations) image and hashsums are allocated, for use with the PHV5 speech handlers.

**V5DSPISLP** = The ISLP DSP software image and hashsum are allocated, for use with the PHV5 speech handlers.

**V5DSPTDMA** = The consolidated TDMA QCELP (which include ACELP and VSELP) image and hashsums are allocated, for use with the PHV5 speech handlers.

b = SM number.

c = Request type. Valid value(s):
   DEGROW
   GROW = Default.

4. SYSTEM RESPONSE

**PF** = Printout follows. Request accepted. Followed by the CFR:SPRMEM output message.

**RL** = Retry later. Memory growth terminal process could not be created.

5. REFERENCES

Input Message(s):
   DUMP:SMMAP

Output Message(s):
   CFR:SPRMEM
   DUMP:SMMAP
1. PURPOSE

Requests that a section or sections of switching module (SM) memory be allocated/deallocated from the spare memory hole for the peripheral image or images that resides in the peripheral unit specified on the input message line. The SM memory layout need no longer contain images for peripherals that are not equipped. This input message must be executed with a request type of GROW during the growth procedures for the first peripheral unit of each type grown on an SM. It should also be executed with a request type of DEGROW after the last peripheral unit of each type is degrown on an SM to reclaim memory and consolidate spare memory.

2. FORMAT

CFR:SPRMEM,ODRID=a,SM=b[,REQST={c}][,UCL];

3. EXPLANATION OF MESSAGE

UCL = Unconditionally process the image(s) for the specified unit, ignoring checks for hardware equipage.

a = SM peripheral hardware unit. Valid value(s):

CFCBUF = The configuration control buffer area and hashsums are allocated.
DNUS = The set of two digital network unit - synchronous optical network (SONET) (DNU-S) resident software images and hashsums are allocated. This includes the DNUSSCC and DNUSTMX images and hashsums.
DSP13K = The 13K DSP software image and hashsum are allocated, for use with the PHV3 speech handlers.
DSPACELP = The ACELP DSP software image and hashsum are allocated, for use with the PHV3 speech handlers.
DSPEVRC = The EVRC DSP software image and hashsum are allocated, for use with the PHV3 speech handlers.
DSPVSELP = The VSELP DSP software image and hashsum are allocated, for use with the PHV3 speech handlers.
GDSF = The global digital services function (GDSF) resident operational software image and hashsum are allocated. The DSC3 diagnostic software image and hashsum are allocated in conjunction with this request if not already allocated.
IDCU = The set of three integrated digital carrier unit (IDCU) resident software images and hashsums are allocated. This includes the IDCUCCP, IDCULSI, and IDCUDLP images and hashsums.
ISLU = The integrated services line unit (ISLU) resident software image and hashsum are allocated.
ISLU2 = The integrated services line unit model 2 (ISLU2) resident software image and hashsum are allocated.
ISTF = The integrated services test function (ISTF) resident operational software image and hashsum are allocated. The hardware digital service unit (HDSU) diagnostic software image and hashsum are allocated in conjunction with this request if not already allocated.
LDSF = The local digital service function (LDSF) resident operational software image and hashsum are allocated. The DSC3 diagnostic software image and hashsum are
allocated in conjunction with this request if not already allocated.

**LDSF2**
- The local digital service function 2 (LDSF2) resident operational software image and hashsum are allocated. The DSC4 diagnostic software image and hashsum are allocated in conjunction with this request if not already allocated.

**LDSU**
- The local digital service unit (LDSU) resident operational software image and hashsum are allocated. The HDSU diagnostic software image and hashsum are allocated in conjunction with this request if not already allocated.

**OIU24**
- The 24-channel optical interface unit (OIU) resident software image and hashsum are allocated.

**PH2**
- The set of four protocol handler model 2 (PH2) resident software images and hashsums are allocated. This includes the PH2A, PH2G, DDMA, and ODMA images and hashsums.

**PH22I**
- The protocol handler model 22 (PH22) ISDN-wireless resident software image (PH22I) and hashsums are allocated. If not already allocated, the PH22 IOP (IP22) image and hashsums will also be allocated.

**PH22S**
- The set of two PH22 common channel signaling (CCS) resident software images and hashsums are allocated. This includes the PH22S and IP22S images and hashsums.

**PH31S**
- The protocol handler 31 for high speed signaling links image and hashsums are allocated.

**PH3C**
- The set of two PH3 ISDN resident software images and hashsums are allocated. This includes the PH3C and OIOP images and hashsums.

**PH3S**
- The set of two protocol handler model 3 (PH3) CCS resident software images and hashsums are allocated. This includes the PH3S and IP3S images and hashsums.

**PH4ACC**
- The set of two protocol handler model 4 (PH4) resident access software images and hashsums are allocated. This includes the PH4ACCAP and the PH4ISDNIP images and hashsums.

**PH4GWY**
- The set of PH4 resident gateway software images and hashsums are allocated. This includes the PH4GWYAP and the PH4ISDNIP images and hashsums.

**PH4IFR**
- The PH4 resident ISDN frame relay software image (PH4IFRIP) and hashsum regions are allocated. If not already loaded, the PH4WLAP and the PH4ISDNIP (needed for diagnostics) images and hashsums will be allocated as well.

**PH4PP**
- The PH4 resident package pipe software IOP image (PH4PPPIP) and hashsum regions are allocated. If not already loaded, the PH4WLAP and the PH4ISDNIP (needed for diagnostics) images and hashsums will be allocated as well. These images are used for CDMA and TDMA packet pipe applications.

**PHA1**
- The protocol handler for ATM (PHA1) resident software image (PHA1A) and hashsum are allocated.

**PHA2A**
- The protocol handler for ATM (PHA2) version 2 resident software image and hashsum are allocated.

**PHE1**
- The set of two protocol handler with SCSI/Ethernet version 1 (PHE1) resident software images and hashsums are allocated.

**PHE2E**
- The protocol handler with SCSI/Ethernet version 2 (PHE2) resident software images and hashsums are allocated.

**PHV1**
- The speech handler (PHV1) resident software image (PHV1C) and hashsum are allocated.

**PHV3C**
- The set of two speech handler (PHV3) resident software images and hashsums are allocated. This includes the PHV3C and DSP8K images and hashsums.

**PHV4C**
- The set of two speech handler (PHV4) resident software images and hashsums are allocated. This includes the PHV4C and V4DSP8K images and hashsums.

**PHV5C**
- The set of two speech handler (PHV5) resident software images and hashsums

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are allocated. This includes the PHV5C and V5DSPCDMA images and hashsums.

PI = The packet interface (PI) resident software image and hashsum are allocated.
PI2 = The packet interface model 2 (PI2) resident software image and hashsum are allocated.
RAF = The recorded announcement function (RAF) resident operational software image and hashsum are allocated. The HDSU diagnostic software image and hashsum are allocated in conjunction with this request if not already allocated.

SAS = The operational and diagnostic service announcement system (SAS) resident software images and hashsums are allocated. This includes the SAS and HSAS images and hashsums.
V4DSPEVRC1 = The set of three EVRC DSP software images and hashsums are allocated, for use with the PHV4 speech handlers. This includes the V4DSPEVRC(FDTMF+TTY/TDD), V4DSPEVRC2(EC+TTY/TDD) and V4DSPEVRC3(EC+FDTMF) images and hashsums.

V4DSP13K = The 13K DSP software image and hashsum are allocated, for use with the PHV4 speech handlers.
V4DSPACELP = The ACELP DSP software image and hashsum are allocated, for use with the PHV4 speech handlers.
V4DSPISLP = The ISLP DSP software image and hashsum are allocated, for use with the PHV4 speech handlers.
V4DSPVSELP = The VSELP DSP software image and hashsum are allocated, for use with the PHV4 speech handlers.

V5DSPCDMA = The consolidated CDMA QCELP (which include QCELP 13K and all EVRC algorithm variations) image and hashsums are allocated, for use with the PHV5 speech handlers.
V5DSPISLP = The ISLP DSP software image and hashsum are allocated, for use with the PHV5 speech handlers.

b = SM number.
c = Request type. Valid value(s):
DEGROW
GROW = Default.

4. SYSTEM RESPONSE

PF = Printout follows. Request accepted. Followed by the CFR:SPRMEM output message.

RL = Retry later. Memory growth terminal process could not be created.

5. REFERENCES

Input Message(s):

DUMP:SMMAP

Output Message(s):

CFR:SPRMEM
DUMP:SMMAP
1. PURPOSE

Requests that a section or sections of switching module (SM) memory be allocated/deallocated from the spare memory hole for the peripheral image or images that resides in the peripheral unit specified on the input message line. The SM memory layout need no longer contain images for peripherals that are not equipped. This input message must be executed with a request type of GROW during the growth procedures for the first peripheral unit of each type grown on an SM. It should also be executed with a request type of DEGROW after the last peripheral unit of each type is degrown on an SM to reclaim memory and consolidate spare memory.

2. FORMAT

CFR:SPRMEM,ODRID=a,SM=b[,REQST={c}][,UCL];

3. EXPLANATION OF MESSAGE

UCL = Unconditionally process the image(s) for the specified unit, ignoring checks for hardware equipage.

a = SM peripheral hardware unit. Valid value(s):
   CFCBUF = The configuration control buffer area and hashsums are allocated.
   DNUS = The set of two digital network unit - synchronous optical network (SONET) (DNU-S) resident software images and hashsums are allocated. This includes the DNUSSC and DNUSTMX images and hashsums.
   DSP13K = The 13K DSP software image and hashsum are allocated, for use with the PHV3 speech handlers.
   DSPACELP = The ACELP DSP software image and hashsum are allocated, for use with the PHV3 speech handlers.
   DSPPEVRC = The EVRC DSP software image and hashsum are allocated, for use with the PHV3 speech handlers.
   DSPVSELP = The VSELP DSP software image and hashsum are allocated, for use with the PHV3 speech handlers.
   GDSF = The global digital services function (GDSF) resident operational software image and hashsum are allocated. The DSC3 diagnostic software image and hashsum are allocated in conjunction with this request if not already allocated.
   GDSF2 = The global digital services function 2 (GDSF2) resident operational software image and hashsum are allocated. The DSC4 diagnostic software image and hashsum are allocated in conjunction with this request if not already allocated.
   IDCU = The set of three integrated digital carrier unit (IDCU) resident software images and hashsums are allocated. This includes the IDCUCCP, IDCLUDSI, and IDCUDLP images and hashsums.
   ISLU = The integrated services line unit (ISLU) resident software image and hashsum are allocated.
   ISLU2 = The integrated services line unit model 2 (ISLU2) resident software image and hashsum are allocated.
   ISTF = The integrated services test function (ISTF) resident operational software image and hashsum are allocated. The hardware digital service unit (HDSU) diagnostic software image and hashsum are allocated in conjunction with this request if not...
already allocated.

LDSF = The local digital service function (LDSF) resident operational software image and hashsum are allocated. The DSC3 diagnostic software image and hashsum are allocated in conjunction with this request if not already allocated.

LDSF2 = The local digital service function 2 (LDSF2) resident operational software image and hashsum are allocated. The DSC4 diagnostic software image and hashsum are allocated in conjunction with this request if not already allocated.

LDSU = The local digital service unit (LDSU) resident operational software image and hashsum are allocated. The HDSU diagnostic software image and hashsum are allocated in conjunction with this request if not already allocated.

OIU24 = The 24-channel optical interface unit (OIU) resident software image and hashsum are allocated.

OIUATM = The asynchronous transfer mode (ATM) OIU resident software image and hashsum are allocated.

OIUIP = The internet protocol (IP) OIU resident software image and hashsum are allocated.

PH2 = The set of four protocol handler model 2 (PH2) resident software images and hashsums are allocated. This includes the PH2A, PH2G, DDMA, and ODMA images and hashsums.

PH22I = The protocol handler model 22 (PH22) ISDN-wireless resident software image (PH22I) and hashsums are allocated. If not already allocated, the PH22 IOP (IP22) image and hashsums will also be allocated.

PH22S = The set of two PH22 common channel signaling (CCS) resident software images and hashsums are allocated. This includes the PH22S and IP22S images and hashsums.

PH31S = The protocol handler model 31 (PH31) high speed common channel signaling resident software image (PH31S) and hashsums are allocated.

PH3C = The set of two PH3 ISDN resident software images and hashsums are allocated. This includes the PH3C and OIOP images and hashsums.

PH3S = The set of two protocol handler model 3 (PH3) CCS resident software images and hashsums are allocated. This includes the PH3S and IP3S images and hashsums.

PH4ACC = The set of two protocol handler model 4 (PH4) resident access software images and hashsums are allocated. This includes the PH4ACCAP and the PH4ISDNIP images and hashsums.

PH4GWY = The set of two PH4 resident gateway software images and hashsums are allocated. This includes the PH4GWYAP and the PH4ISDNIP images and hashsums.

PH4IFR = The PH4 resident ISDN frame relay software IOP image (PH4IFRIP) and hashsum regions are allocated. If not already loaded, the PH4WLAP and the PH4ISDNIP (needed for diagnostics) images and hashsums will be allocated as well.

PH4PP = The PH4 resident package pipe software IOP image (PH4PPIP) and hashsum regions are allocated. If not already loaded, the PH4WLAP and the PH4ISDNIP (needed for diagnostics) images and hashsums will be allocated as well. These images are used for CDMA and TDMA packet pipe applications.

PHA1 = The protocol handler for ATM (PHA1) resident software image (PHA1A) and hashsum are allocated.

PHA2A = The protocol handler for ATM (PHA2) version 2 resident software image and hashsum are allocated.

PHE1 = The set of two protocol handler (PHE1) with SCSI/ethernet resident software images and hashsums are allocated.

PHE2E = The protocol handler (PHE2) with SCSI/ethernet version 2 resident software
images and hashsums are allocated.

PHV1 = The speech handler (PHV1) resident software image (PHV1C) and hashsum are allocated.

PHV3C = The set of two speech handler (PHV3) resident software images and hashsums are allocated. This includes the PHV3C and DSP8K images and hashsums.

PHV4C = The set of two speech handler (PHV4) resident software images and hashsums are allocated. This includes the PHV4C and V4DSP8K images and hashsums.

PHV5C = The set of two speech handler (PHV5) resident software images and hashsums are allocated. This includes the PHV5C and V5DSPCDMA images and hashsums.

PI = The packet interface (PI) resident software image and hashsum are allocated.

PI2 = The packet interface model 2 (PI2) resident software image and hashsum are allocated.

RAF = The recorded announcement function (RAF) resident operational software image and hashsum are allocated. The HDSU diagnostic software image and hashsum are allocated in conjunction with this request if not already allocated.

SAS = The operational and diagnostic service announcement system (SAS) resident software images and hashsums are allocated. This includes the SAS and HSAS images and hashsums.

V4DSPEVRC1 = The set of three EVRC DSP software images and hashsums are allocated, for use with the PHV4 speech handlers. This includes the V4DSPEVRC(FDTMF+TTY/TDD), V4DSPEVRC2(EC+TTY/TDD) and V4DSPEVRC3(EC+FDTMF) images and hashsums.

V4DSP13K = The 13K DSP software image and hashsum are allocated, for use with the PHV4 speech handlers.

V4DSPACELP = The ACELP DSP software image and hashsum are allocated, for use with the PHV4 speech handlers.

V4DSPISLP = The ISLP DSP software image and hashsum are allocated, for use with the PHV4 speech handlers.

V4DSPVSELP = The VSELP DSP software image and hashsum are allocated, for use with the PHV4 speech handlers.

V5DSPCDMA = The consolidated CDMA QCELP (which include QCELP 13K and all EVRC algorithm variations) image and hashsums are allocated, for use with the PHV5 speech handlers.

V5DSPISLP = The ISLP DSP software image and hashsum are allocated, for use with the PHV5 speech handlers.

V5DSPSME13 = The consolidated SMV, EVRC and 13K DSP software image and hashsum are allocated, for use with the PHV5 speech handlers.

b = SM number.

c = Request type. Valid value(s):
   DEGROW
   GROW = Default.

4. SYSTEM RESPONSE

PF = Printout follows. Request accepted. Followed by the CFR:SPRMEM output message.

RL = Retry later. Memory growth terminal process could not be created.
5. REFERENCES

Input Message(s):

DUMP : SMMAP

Output Message(s):

CFR : SPRMEM
DUMP : SMMAP
**1. PURPOSE**

Requests that a section or sections of switching module (SM) memory be allocated/deallocated from the spare memory hole for the peripheral image or images that resides in the peripheral unit specified on the input message line. The SM memory layout need no longer contain images for peripherals that are not equipped. This input message must be executed with a request type of GROW during the growth procedures for the first peripheral unit of each type grown on an SM. It should also be executed with a request type of DEGROW after the last peripheral unit of each type is degrown on an SM to reclaim memory and consolidate spare memory.

**2. FORMAT**

```
CFR:SPRMEM,ODRID=a,SM=b[,REQST={c}][,UCL];
```

**3. EXPLANATION OF MESSAGE**

- **UCL**: Unconditionally process the image(s) for the specified unit, ignoring checks for hardware equipage.
- **a**: SM peripheral hardware unit. Valid value(s):
  - **CFCBUF**: The configuration control buffer area and hashsums are allocated.
  - **CSCPSAS**: The operational and diagnostic common service circuit platform (CSCP) service announcement system (SAS) resident software images and hashsums are allocated. This includes the CSCPSAS and CSCPDG images and hashsums.
  - **DNUS**: The set of two digital network unit - synchronous optical network (SONET) (DNU-S) resident software images and hashsums are allocated. This includes the DNUSCC and DNUSTMX images and hashsums.
  - **DSP13K**: The 13K DSP software image and hashsum are allocated, for use with the PHV3 speech handlers.
  - **DSPACELP**: The ACELP DSP software image and hashsum are allocated, for use with the PHV3 speech handlers.
  - **DSPEVRC**: The EVRC DSP software image and hashsum are allocated, for use with the PHV3 speech handlers.
  - **DSPVSELP**: The VSELP DSP software image and hashsum are allocated, for use with the PHV3 speech handlers.
  - **GDSF**: The global digital services function (GDSF) resident operational software image and hashsum are allocated. The DSC3 diagnostic software image and hashsum are allocated in conjunction with this request if not already allocated.
  - **GDSF2**: The global digital services function 2 (GDSF2) resident operational software image and hashsum are allocated. The DSC4 diagnostic software image and hashsum are allocated in conjunction with this request if not already allocated.
  - **IDCU**: The set of three integrated digital carrier unit (IDCU) resident software images and hashsums are allocated. This includes the IDCUCCP, IDCULSI, and IDCUDLP images and hashsums.
  - **ISLU**: The integrated services line unit (ISLU) resident software image and hashsum are allocated.
  - **ISLU2**: The integrated services line unit model 2 (ISLU2) resident software image and hashsum are allocated.
ISTF = The integrated services test function (ISTF) resident operational software image and hashsum are allocated. The hardware digital service unit (HDSU) diagnostic software image and hashsum are allocated in conjunction with this request if not already allocated.

LDSF = The local digital service function (LDSF) resident operational software image and hashsum are allocated. The DSC3 diagnostic software image and hashsum are allocated in conjunction with this request if not already allocated.

LDSF2 = The local digital service function 2 (LDSF2) resident operational software image and hashsum are allocated. The DSC4 diagnostic software image and hashsum are allocated in conjunction with this request if not already allocated.

LDSU = The local digital service unit (LDSU) resident operational software image and hashsum are allocated. The HDSU diagnostic software image and hashsum are allocated in conjunction with this request if not already allocated.

OIU24 = The 24-channel optical interface unit (OIU) resident software image and hashsum are allocated.

OIUATM = The asynchronous transfer mode (ATM) OIU resident software image and hashsum are allocated.

OIUIP = The internet protocol (IP) OIU resident software image and hashsum are allocated.

PH2 = The set of four protocol handler model 2 (PH2) resident software images and hashsums are allocated. This includes the PH2A, PH2G, DDMA, and ODMA images and hashsums.

PH22I = The protocol handler model 22 (PH22) ISDN-wireless resident software image (PH22I) and hashsums are allocated. If not already allocated, the PH22 IOP (IP22) image and hashsums will also be allocated.

PH22S = The set of two PH22 common channel signaling (CCS) resident software images and hashsums are allocated. This includes the PH22S and IP22S images and hashsums.

PH31S = The protocol handler model 31 (PH31) high speed common channel signaling resident software image (PH31S) and hashsums are allocated.

PH3C = The set of two PH3 ISDN resident software images and hashsums are allocated. This includes the PH3C and OIOP images and hashsums.

PH3S = The set of two protocol handler model 3 (PH3) CCS resident software images and hashsums are allocated. This includes the PH3S and IP3S images and hashsums.

PH4ACC = The set of two protocol handler model 4 (PH4) resident access software images and hashsums are allocated. This includes the PH4ACCAP and the PH4ISDNIP images and hashsums.

PH4GWY = The set of two PH4 resident gateway software images and hashsums are allocated. This includes the PH4GWYAP and the PH4ISDNIP images and hashsums.

PH4IFR = The PH4 resident ISDN frame relay software IOP image (PH4IFRIP) and hashsum regions are allocated. If not already loaded, the PH4WLAP and the PH4ISDNIP (needed for diagnostics) images and hashsums will be allocated as well.

PH4PP = The PH4 resident package pipe software IOP image (PH4PPIP) and hashsum regions are allocated. If not already loaded, the PH4WLAP and the PH4ISDNIP (needed for diagnostics) images and hashsums will be allocated as well. These images are used for CDMA and TDMA packet pipe applications.

PHA1 = The protocol handler for ATM (PHA1) resident software image (PHA1A) and hashsum are allocated.

PHA2A = The protocol handler for ATM (PHA2) version 2 resident software image and hashsum are allocated.
PHE1 = The set of two protocol handler (PHE1) with SCSI/ethernet resident software images and hashsums are allocated.

PHE2E = The protocol handler (PHE2) with SCSI/ethernet version 2 resident software images and hashsums are allocated.

PHV1 = The speech handler (PHV1) resident software image (PHV1C) and hashsum are allocated.

PHV3C = The set of two speech handler (PHV3) resident software images and hashsums are allocated. This includes the PHV3C and DSP8K images and hashsums.

PHV4C = The set of two speech handler (PHV4) resident software images and hashsums are allocated. This includes the PHV4C and V4DSP8K images and hashsums.

PHV5C = The set of two speech handler (PHV5) resident software images and hashsums are allocated. This includes the PHV5C and V5DSPCDMA images and hashsums.

PHV6C = The set of two speech handler (PHV6) resident software images and hashsums are allocated. This includes the PHV6C and V6DSPCDMA images and hashsums.

PI = The packet interface (PI) resident software image and hashsum are allocated.

PI2 = The packet interface model 2 (PI2) resident software image and hashsum are allocated.

PSU2E = The set of CF3/PF3 resident firmware and hardware images and their corresponding hashsums that are pumped from the AM disk. This set is composed of 2 PF3 and 2 CF3 images as shown:

RAF = The recorded announcement function (RAF) resident operational software image and hashsum are allocated. The HDSU diagnostic software image and hashsum are allocated in conjunction with this request if not already allocated.

SAS = The operational and diagnostic service announcement system (SAS) resident software images and hashsums are allocated. This includes the SAS and HSAS images and hashsums.

V4DSP EVRC1 = The set of three EVRC DSP software images and hashsums are allocated, for use with the PHV4 speech handlers. This includes the V4DSP EVRC(FDTMF +TTY/TDD), V4DSP EVRC2(EC+TTY/TDD) and V4DSP EVRC3(EC+FDTMF) images and hashsums.

V4DSP13K = The 13K DSP software image and hashsum are allocated, for use with the PHV4 speech handlers.

V4DSP ACELP = The ACELP DSP software image and hashsum are allocated, for use with the PHV4 speech handlers.

V4DSP ISLP = The ISLP DSP software image and hashsum are allocated, for use with the PHV4 speech handlers.

V4DSP VSELP = The VSELP DSP software image and hashsum are allocated, for use with the PHV4 speech handlers.

V5DSP CDMA = The consolidated CDMA QCELP (which include QCELP 13K and all EVRC algorithm variations) image and hashsums are allocated, for use with the PHV5 speech handlers.

V5DSP ISLP = The ISLP DSP software image and hashsum are allocated, for use with the PHV5 speech handlers.

V5DSP SMV = The consolidated SMV, EVRC and 13K DSP software image and hashsum are allocated, for use with the PHV5 speech handlers.

V6DSP CDMA = The consolidated CDMA QCELP (which include QCELP 13K and all EVRC algorithm variations) image and hashsums are allocated, for use with the PHV6 speech handlers.

V6DSP SMV = The consolidated SMV, EVRC and 13K DSP software image and hashsum are allocated, for use with the PHV6 speech handlers.

\[ b \] = SM number.
c  = Request type. Valid value(s):
      DEGROW
      GROW = Default.

4. SYSTEM RESPONSE

PF  = Printout follows. Request accepted. Followed by the CFR:SPRMEM output message.
RL  = Retry later. Memory growth terminal process could not be created.

5. REFERENCES

Input Message(s):

   DUMP : SMMAP

Output Message(s):

   CFR : SPRMEM
   DUMP : SMMAP
15. CHG
**CHG:ALM**

**Software Release:** 5E14 and later  
**Command Group:** ALARM  
**Application:** 5  
**Type:** Input

1. **PURPOSE**

Requests a change to or adds alarm labels, levels, and repeatability status for office assignable building/power or miscellaneous alarms. Any combination of one or more of the keywords TAG, LVL, and REPEAT can be specified.

2. **FORMAT**

```
CHG:ALM, a=b[, TAG="c"][, LVL=d[, REPEAT=e]];
```

3. **EXPLANATION OF MESSAGE**

**a**

Type of alarm. Valid value(s):
- BPSC = Building/power scan point.
- MISC = Miscellaneous.

**b**

Scan point number. Valid value(s):

<table>
<thead>
<tr>
<th>If 'a' =</th>
<th>'b' =</th>
</tr>
</thead>
<tbody>
<tr>
<td>BPSC</td>
<td>2-27</td>
</tr>
<tr>
<td>MISC</td>
<td>0-47</td>
</tr>
</tbody>
</table>

**c**

Alarm label (maximum of 9 characters, plus and minus signs, numbers, or spaces). To remove (not replace) an alarm label, the TAG field 'c' may be entered as a null string (for example, TAG=""), or TAG may be entered without the 'c' argument. If the TAG keyword is not entered or an asterisk (*) is used in field 'c', the alarm label will default to the previous label.

**d**

Alarm level. If the LVL keyword is not entered, the alarm level will default to the previous level (original default level is MJ). Valid value(s):
- CR = Critical.
- IF = Informational.
- MJ = Major.
- MN = Minor.

**e**

Alarm repeatability status. If an office assignable alarm is assigned as repeating, when that alarm is activated, it will generate a new alarm every 15 minutes until the stimulus for the alarm is cleared or the alarm is inhibited. If the REPEAT keyword is not entered, the alarm repeatability status will default to the previous value (original default is N). Valid value(s):
- N = No (non-repeating).
- Y = Yes (15-minute repeating).

4. **SYSTEM RESPONSE**

**PF**

Printout follows. A CHG:ALM output message will follow in response to the request.

**NG**

No good. The request has been denied. The office is not equipped to process the request entered.
5. REFERENCES

Output Message(s): 

CHG : ALM

Other Manual(s):
235-105-210  Routine Operations and Maintenance
1. PURPOSE

Requests a change in the common network interface (CNI) incore view of the CNI generic identification (ID). It causes the CNI to read the equipment configuration data (ECD) and common network interface release (CNIREL) files in order to change the generic ID of the CNI. This input message is executed automatically with every software update containing the CNIREL product and is not intended to be run manually.

2. FORMAT

CHG:GEN;

3. EXPLANATION OF MESSAGE

No variables.

4. SYSTEM RESPONSE

PF = Printout follows. Followed by an CHG:GEN output message.

5. REFERENCES

Output Message(s):

CHG:GEN
CHG:LPS-MSGCLS

Software Release: 5E14 and later
Command Group: MAINT
Application: 5
Type: Input

1. PURPOSE

Requests that the log/print status (LPS) of one or all output message class(es) be changed. A record of the log/print status of each output message class is kept in the current status table and in the backup status table. If the status of the current table is changed without writing to the backup table, the Master Control Center (MCC) system inhibit lamp will be lit.

This message will only change 5ESS® switch message classes. Message classes are listed in the APP:MSGCLS appendix in the Appendixes section of the Output Messages manual.

NOTE: This message will NOT affect critical, major, and minor alarm level output messages and output messages produced as a result of manual inputs. This message will NOT change common network interface (CNI) message classes either.

Format 1 changes the current log and/or print status to ON or OFF, as specified. If TOBKUP is entered, the same change will be applied to the backup status as well.

Format 2 copies the backup status to the current status, or vice-versa.

2. FORMAT

[1] CHG:LPS,MSGCLS={a|ALL},{PRINT=b|LOG=c|PRINT=b,LOG=c}[,TOBKUP];

[2] CHG:LPS,MSGCLS={a|ALL},{FROMBKUP|TOBKUP};

3. EXPLANATION OF MESSAGE

ALL = Change all message classes.
FROMBKUP = Copy the backup status to the current table.
TOBKUP = Copy the current status to the backup table. Discard status cannot be copied to backup table.
a = Valid message class.
b = Equipment configuration database (ECD) routing status (ON or OFF).
c = Daylog routing status (ON or OFF).

NOTE: Discard status can be obtained by specifying PRINT=OFF, LOG=OFF. Messages with this status will be discarded unless alarmed or manually generated.

4. SYSTEM RESPONSE

OK = Good. The request to change current and/or backup statuses was accepted. May also include:
- EXCEPT CNI MSGCLS'S NOT CHANGED = The request to change current status of all message classes except CNI message classes was accepted.
NG  = No good. May also include:
- DISCARD NOT WRITABLE TO BKUP = The message class is set to discard and therefore cannot be copied to backup.
- INTERNAL ERROR = Failed from lseek, read, or write operations to the disk file that contains the tables.
- PLEASE REROUTE CNI MESSAGES VIA ECD/RCV = CNI message classes can only be rerouted using ECD/RCV classdef form on MCC page 199.

RL  = Retry later. May also include:
- LPS DISK TABLE (HMlpstable) NOT FOUND = The disk file that contains the tables cannot be found. A new file will be created and OP:LPS output message will be generated automatically. Retry then.

5. REFERENCES

Input Message(s):

OP:LPS
OP:LOG

Output Message(s):

OP:LPS

Output Appendix(es):

APP:MSGCLS

Other Manual(s):

Where (x) is the release-specific version of the specified manual.
235-100-125  System Description
235-600-30x  ECD/SG
CHG:MRVT

Software Release: 5E14 and later
Command Group: CCS
Application: 5
Type: Input

1. PURPOSE

Requests that the message transfer part (MTP) route verification test (MRVT) delay parameter (D), which is used in the calculation of the T1 timer, be changed or displayed. If a request is made to change the delay parameter, and it is within range, the requested value is written onto disk and the delay parameter is updated to the new value.

2. FORMAT

CHG:MRVT=[a];

3. EXPLANATION OF MESSAGE

a = The new value of the delay parameter in seconds (default 8).

NOTE: If this argument is not present on the input message line, the current value of the delay parameter is displayed.

4. SYSTEM RESPONSE

PF = Printout follows. Followed by CHG:MRVT output message.

5. REFERENCES

Input Message(s):

EXC:MRVT-PC

Output Message(s):

CHG:MRVT
EXC:MRVT-PC-STPS
REPT:MRVR

Other Manual(s):

235-190-120 Common Channel Signaling Service Features
1. PURPOSE

Requests that brevity control be activated on messages with CRITICAL, MAJOR, MANUAL and/or MINOR handling priorities. Messages originated with any of these four handling priorities are considered alarmed. Brevity control restricts the number of application terminal (TTY) output messages that are sent to the administrative module (AM) to reduce the quantity of messages. Brevity control is applied for a specific message class and for a specific handling priority.

The brevity control status for each message class can be printed out using the OP:BREVC[,MSGCLS=a] input message. The status for the entire system can be printed out using OP:SYSSTAT input message.

The AM, communications module processor (CMP) and all the switching modules (SMs) normally restrict the generation of output messages through automatic brevity controls on messages with handling priorities lower than the four alarmed levels. Under unusual circumstances, it may be desirable to restrict alarmed messages originating from an SM or CMP which may increase communication link traffic and degrade AM performance and capacity.

Format 1 allows the user to enable/disable brevity control on one or more alarmed message types.

Format 2 allows the user to enable/disable brevity control on one or more alarmed message types and flush the SM or CMP buffers of all messages that are currently covered under brevity control.

Format 3 allows the user to flush the SM or CMP buffers of all messages that are currently covered under brevity control.

This message control is automatically cleared during high-level AM initializations.

WARNING: The indiscriminate use of the CHG:MSGCNTL message may cause alarmed messages to be discarded and delay notification of alarms.

2. FORMAT

   
   
   [,FLUSH];

3. EXPLANATION OF MESSAGE

CMP = Change the state of brevity for the CMP.

DISCARD = Enable brevity control. (Used with ALL, CRITICAL, MAJOR, MINOR, and MANUAL input messages.)

FLUSH = Allow SM or CMP message buffers to be flushed of all messages that are currently covered under brevity control.

HSM = Change the state of brevity control for host switching modules in range.

LSM = Change the state of brevity control for local switching modules in range.

NORM = Disable brevity control. (Used with ALL, CRITICAL, MAJOR, MINOR, and MANUAL input messages.)

ORM = Change the state of brevity control for optical remote switching modules in range.

RSM = Change the state of brevity control for remote switching modules in range.

SM = Change the state of brevity for one or more SMs.

TRM = Change the state of brevity control for two-mile optical remote switching modules in range.

DRM = Change the state of brevity control for distinctive remote switching modules in range.

a = CMP number.

b = SM number or lower limit of a range of SM numbers.

c = Upper limit of a range of SM numbers.

d = The type of alarmed message for which the state of brevity control should be changed. Valid value(s):

ALL = Change the state of brevity control for all four alarmed messages.

CRITICAL = Change the state of brevity control for critical messages.

MAJOR = Change the state of brevity control for major messages.

MANUAL = Change the state of brevity control for manual messages.

MINOR = Change the state of brevity control for minor messages.

4. SYSTEM RESPONSE

NG = No good. An illegal SM number or range was specified or illegal CMP number was specified.

OK = Good. The message was accepted and the action completed.

5. REFERENCES

Input Message(s):
ALM: BREVC
OP: BREVC
OP: LPS
OP: SYSSTAT

Output Message(s):
OP: BREVC

Other Manual(s):
235-105-250 System Recovery Procedures
235-105-220 Corrective Maintenance

MCC Display Page(s):
141-144 (EQUIPPED SM STATUS SUMMARY)
1800 (SM INHIBIT & RECOVERY CONTROL)
1850/1851 (CMP INH & RCVRY CNTL)
CHG:PAUTH
Software Release: 5E14 and later
Command Group: AUTH
Application: 5,3B
Type: Input

1. PURPOSE
Changes the password for a given person identity (IDENT) in the person authority database (PAUTH). The user will be forced to choose a new password upon his or her next login.

This input message is not printed (echoed) on the read-only printer (ROP) in order to keep passwords private. This input message is used in administering security of the maintenance interface. Refer to the Routine Operations and Maintenance manual for authority administration information.

2. FORMAT
CHG:PAUTH:IDENT="a",PSSWD="b";

3. EXPLANATION OF MESSAGE
a  = Identity of the person that uses the password, in one to eight characters.
b  = Password in six to thirteen characters.

4. SYSTEM RESPONSE
NG  = No good. Valid value(s):
- NON-EXISTENT PERSON IDENTITY = The given person identity does not exist in the person authority database.
- PASSWORD INVALID length = The given password is greater than 13 characters in length.
- PASSWORD MUST BE AT LEAST 6 CHARACTERS = The given password is less than six characters in length.
- UNABLE TO ACCESS AUTHORITY ADMINISTRATION = The person authority database is inaccessible.

OK  = Good. The identity and password have been changed in the person authority database.

RL  = Retry later. Valid value(s):
- AUTHORITY ADMINISTRATION UNDER UPDATE = The person authority database is currently being updated.

5. REFERENCES
Input Message(s):
ADD:PAUTH
DEL:PAUTH
CHG:PSSWD
VFY:PAUTH
Output Message(s):

\texttt{VFY:PAUTH}

Other Manual(s):

235-105-210 \textit{Routine Operations and Maintenance}
CHG:PRNTMODE-A

Software Release: 5E14 only
Command Group: SYSRCVY
Application: 5
Type: Input

1. PURPOSE

Requests a change to the print mode of the specified packet interface (PI) and/or packet switching unit protocol handler (PSUPH).

Format 1 changes the print mode of the specified PI of the module controller time slot interchanger (MCTSI) or PSUPH. The desired PSUPH may also be referenced by its currently associated channel group (CHNG). This input message will also print the PSUPH's or PI's logged recovery output reports if RCVYHST is specified. This input message will also print the PSUPH's or PI's event history if EVENTHST is specified. However, even history dumps are not supported on PIs of hardware type PI1 or on PSUPHs of hardware type PH2. Format 2 changes the print mode of all PSUPHs and/or all PIs of the specified switching module (SM). Once the print mode of a PSUPH(s) or(AND) PI(s) is set to "ON", the unit's output reports will be printed on the ROP (receive-only printer) until manually changed or until 48 hours have elapsed without a PI's or PSUPH's print mode change of "ON".

2. FORMAT

[1] CHG:PRNTMODE={ON|OFF},{PSUPH=a-b-c-d|CHNG=a-b-c-e|MCTSI=a-f,PI}[,RCVYHST][,EVENTHST];


3. EXPLANATION OF MESSAGE

CHNG = Channel group (logical PH).
RCVYHST = Print all logged output reports from the specified PI or PSUPH.
EVENTHST = Print event history from the specified PI or PSUPH.
MCTSI = Module controller time slot interchanger.
OFF = Set the printing mechanism to OFF for printing the specified PSUPH's or PI's messages. If an SM is specified, the printing mechanism for all PHs and/or all PI's in the SM will be changed to OFF.
ON = Set the printing mechanism to ON for printing the specified PSUPH's or PI's messages. If an SM is specified, the printing mechanism for all PHs and/or all PI's in the SM will be changed to ON.
PI = Packet interface.
PP = Port processor (refers to PSUPH or PI, collectively).
PSUPH = Packet switching unit protocol handler (physical PH).
a = Switching module number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
b = Packet switching unit (PSU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
c = PSU shelf number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

d = PSUPH number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

e = CHNG number.

f = MCTSI side number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

IP = In progress. The message was accepted and the print mode is changed as requested. The printing of the requested history is in progress. (This response is given when a history dump is requested.)

NG = No good. The message was not accepted because the SM is isolated or the equipment does not exist.

NO = Feature not available. The requested action failed because the feature required to process the request is not present in the module.

OK = Good. The message was accepted and the print mode is changed as requested.

5. REFERENCES

Input Message(s):

   OP:HISTORY
   OP:PM-PP-MCTSI
   OP:ST
   RLS:PM-PP-MCTSI

Output Message(s):

   OP:ST
   REPT:PP-EM
   REPT:PP-EP

Input Appendix(es):

   APP:RANGES

Other Manual(s):

235-105-110 System Maintenance Requirements and Tools
CHG:PRNTMODE-B

Software Release: 5E15 - 5E16(1)
Command Group: SYSRCVY
Application: 5
Type: Input

1. PURPOSE

Requests a change to the print mode of the specified packet interface (PI) and/or packet switching unit protocol handler (PSUPH).

Format 1 changes the print mode of the specified PI of the module controller time slot interchanger (MCTSI) or PSUPH. The desired PSUPH may also be referenced by its currently associated channel group (CHNG). This input message will also print the PSUPH's or PI's logged recovery output reports if RCVYHST is specified.

This input message will also print the PSUPH's or PI's event history if EVENTHST is specified. However, even history dumps are not supported on PIs of hardware type PI1 or on PSUPHs of hardware type PH2.

Format 2 changes the print mode of all PSUPHs and/or all PIs of the specified switching module (SM).

Once the print mode of a PSUPH(s) or/(and) PI(s) is set to "ON", the unit's output reports will be printed on the ROP until manually changed.

2. FORMAT

[1] CHG:PRNTMODE=g,h[,RCVYHST][,EVENTHST];

[2] CHG:PRNTMODE=g,SM=a,i;

3. EXPLANATION OF MESSAGE

RCVYHST = Print all logged output reports from the specified PI or PSUPH.
EVENTHST = Print event history from the specified PI or PSUPH.
a = Switching module number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
b = PSU number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
c = PSU shelf number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
d = PSUPH number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
e = CHNG number.
f = MCTSI side number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
g = Print mode. Valid value(s):
OFF = Set the printing mechanism to OFF for printing the specified PSUPH's or PI's messages. If an SM is specified, the printing mechanism for all PHs and/or all PI's in the SM will be changed to OFF.

ON = Set the printing mechanism to ON for printing the specified PSUPH's or PI's messages. If an SM is specified, the printing mechanism for all PHs and/or all PI's in the SM will be changed to ON.

h = Unit.

CHNG=a-b-c-e
MCTSI=a-f
PI
PSUPH=a-b-c-d

i = Packet type. Valid value(s):

PI
PP
PSUPH

4. SYSTEM RESPONSE

IP = In progress. The message was accepted and the print mode is changed as requested. The printing of the requested history is in progress. This response is given when a history dump is requested.

NG = No good. The message was not accepted because the SM is isolated or the equipment does not exist.

NO = Feature not available. The requested action failed because the feature required to process the request is not present in the module.

OK = Good. The message was accepted and the print mode is changed as requested.

5. REFERENCES

Input Message(s):

OP:HISTORY
OP:PM-PP-MCTSI
OP:ST
RLS:PM-PP-MCTSI

Output Message(s):

OP:ST
REPT:PP-EM
REPT:PP-EP

Input Appendix(es):
Other Manual(s):
235-105-110  System Maintenance Requirements and Tools
CHG:PRNTMODE-C

Software Release: 5E16(2) and later
Command Group: SYSRCVY
Application: 5
Type: Input

1. PURPOSE

Requests a change to the print mode of the specified packet interface (PI) and/or packet switching unit protocol handler (PSUPH).

The specified PI's or PSUPH's stack frame and register dump may be printed out on the ROP if PPFRMREG is set to ON.

Format 1 changes the print mode of the specified PI of the module controller time slot interchanger (MCTSI) or PSUPH. The desired PSUPH may also be referenced by its currently associated channel group (CHNG). This input message will also print the PSUPH's or PI's logged recovery output reports if RCVYHST is specified.

This input message will also print the PSUPH's or PI's event history if EVENTHST is specified. However, even history dumps are not supported on PIs of hardware type PI1 or on PSUPHs of hardware type PH2.

Format 2 changes the print mode of all PSUPHs and/or all PIs of the specified switching module (SM). Once the print mode of a PSUPH(s) or(P/and) PI(s) is set to "ON", the unit's output reports will be printed on the ROP until manually changed.

2. FORMAT

[1] CHG:PRNTMODE=g,h[,RCVYHST][,EVENTHST][,PPFRMREG=j];

[2] CHG:PRNTMODE=g,SM=a,i[,PPFRMREG=j];

3. EXPLANATION OF MESSAGE

RCVYHST = Print all logged output reports from the specified PI or PSUPH.
EVENTHST = Print event history from the specified PI or PSUPH.
PPFRMREG = Print stack frame and register dump from specified PI or PSUPH when an assert fires.

a = Switching module number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
b = PSU number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
c = PSU shelf number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
d = PSUPH number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
e = CHNG number.
f  = MCTSI side number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

g  = Print mode. Valid value(s):
    OFF  = Set the printing mechanism to OFF for printing the specified PSUPH's or PI's messages. If an SM is specified, the printing mechanism for all PHs and/or all PI's in the SM will be changed to OFF.
    ON   = Set the printing mechanism to ON for printing the specified PSUPH's or PI's messages. If an SM is specified, the printing mechanism for all PHs and/or all PI's in the SM will be changed to ON.

h  = Unit.

    CHNG=a-b-c-e
    MCTSI=a-f
    PI
    PSUPH=a-b-c-d

i  = Packet type. Valid value(s):

    PI
    PP
    PSUPH

j  = PI's or PSUPH's stack frame and register dump print mode.
    OFF  = Log off PSUPH's or PI's stack frame and register dump report when an assert fires.
    ON   = Log on PSUPH's or PI's stack frame and register dump report when an assert fires.

4. SYSTEM RESPONSE

   IP   = In progress. The message was accepted and the print mode is changed as requested. The printing of the requested history is in progress. This response is given when a history dump is requested.

   NG   = No good. The message was not accepted because the SM is isolated or the equipment does not exist.

   NO   = Feature not available. The requested action failed because the feature required to process the request is not present in the module.

   OK   = Good. The message was accepted and the print mode is changed as requested.

5. REFERENCES

Input Message(s):
OP:HISTORY
OP:PM-PP-MCTSI
OP:ST
RLS:PM-PP-MCTSI

Output Message(s):

OP:ST
REPT:PP-EM
REPT:PP-EP
REPT:STACK-FRAME
REPT:REGISTER

Input Appendix(es):

APP:RANGES

Other Manual(s):
235-105-110 System Maintenance Requirements and Tools
CHG:PROFL

Software Release: 5E14 and later
Command Group: AUTH
Application: 5,3B
Type: Input

1. PURPOSE

Adds or removes a command group (COMGR) from a profile identity (IDENT) in the profile authority database (PROFL). The IDENT must already be defined by the ADD:PROFL input message.

This input message is used in administering security of the maintenance interface. Refer to the Routine Operations and Maintenance manual for authority administration information.

2. FORMAT

CHG:PROFL:IDENT=a,ACTION=b,COMGR=c[-d][-e][-f][-g][-h][-i][-j];

3. EXPLANATION OF MESSAGE

a = Identity of the profile in one to eight letters and/or digits.

b = The action to perform on the profile. Valid value(s):
   EXCLUDE = Remove the given command group(s) from the profile.
   INCLUDE = Add the given command group(s) to the profile.

   ADMIN = System administrator only activities.
   ALARM = Alarm manipulation.
   AM = Administrative module maintenance.
   AMA = Automatic Message Accounting.
   AUDIT = Audits.
   AUTH = Command and authority administration.
   CCS = Common channel signaling.
   CM = Communications module maintenance.
   FHADM = File handling and administration.
   MAINT = Routine maintenance activities.
   MEAS = Measurements.
   NMOC = Network management and overload control.
   ODD = Office Dependent Data activities.
   PASS = Personal password modification.
   RCV = Recent Change and Verify activities.
   SM = Switching module maintenance.
   SPECRCV = Special RCV input messages.
   SFTMGMT = Software management (update, software release retrofit).
   SFTUTIL = Software utilities.
   SUPERUSR = Super user authority (bypass terminal authority).
   SYSRCVY = System recovery activities.
   TRACE = Call trace.
   TRKLN = Trunk and line maintenance.
Refer to the APP:COMMAND-GRP appendix in the Appendixes section of the Input Messages manual for more details.

4. SYSTEM RESPONSE

NG = No good. May also include:
- PROFILE IDENTITY DOES NOT EXIST = The given profile identity does not exist in the profile authority database.
- UNABLE TO ACCESS PROFILE ADMINISTRATION = The profile authority database is inaccessible.

OK = Good. Command group(s) successfully added to or removed from the given profile.

RL = Retry later. May also include:
- PROFILE ADMINISTRATION UNDER UPDATE = The profile authority database is currently being updated.

5. REFERENCES

Input Message(s):

ADD:PCGRP
ADD:PROFL
ADD:TGRP
DEL:PCGRP
DEL:PROFL
DEL:TGRP
VFY:PCGRP
VFY:TGRP
VFY:PROFL

Input Appendix(es):

APP:COMMAND-GRP

Output Message(s):

VFY:PCGRP
VFY:PROFL
VFY:TGRP

Other Manual(s):
235-105-210 "Routine Operations and Maintenance"
1. PURPOSE

Changes a user's password (PSSWD) from its current value (OLD) to a new value (NEW). A user may change only his or her own password.

This input message is not printed (echoed) on the Receive Only Printer (ROP) in order to keep passwords private. This input message is associated with maintenance interface security. Refer to the Routine Operations and Maintenance manual for further information.

2. FORMAT

   CHG:PSSWD:OLD=a,NEW=b;

3. EXPLANATION OF MESSAGE

   a = Old password in six to thirteen characters.
   b = New password in six to thirteen characters.

4. SYSTEM RESPONSE

   NG = No good. May also include:
   - CURRENT USER IS NOT OWNER OF THE PASSWORD = A user can change only his or her own password.
   - LESS THAN 'a' WEEK(S) SINCE LAST PASSWORD CHANGE = A minimum of 'a' weeks must elapse between password changes, where 'a' is the minimum password change time defined in the ECD Emergency Action Interface Option (eaiopt) record.
   - OLD PASSWORD INCORRECT = The given old password does not match the user's current password in the person authority database.
   - PASSWORD CAN NOT BE SIMILAR TO LOGIN ID = A password must differ from the login (person) identity by at least two character positions. It also must not be the reverse or circular shift of the login identity.
   - PASSWORD CAN NOT BE SIMILAR TO PREVIOUS PASSWORD = A password must differ from the previous password by at least two character positions. It also must not be the reverse or circular shift of the previous password.
   - PASSWORD MUST BE AT LEAST 6 CHARACTERS = A password must contain at least six characters.
   - PASSWORD MUST BE DIFFERENT THAN PREVIOUS 3 PASSWORDS = The last three passwords can not be used as a new password.
   - PASSWORD MUST CONTAIN AT LEAST 2 ALPHA AND 1 DIGIT OR SPECIAL CHAR = A password must contain at least two alphabetic characters and one digit or special character.
   - UNABLE TO ACCESS AUTHORITY ADMINISTRATION = The person authority database is inaccessible.

   OK = Change to password is made in the person authority database.
= Retry later. May also include:
- AUTHORITY ADMINISTRATION UNDER UPDATE = The person authority database is currently being updated.

5. REFERENCES

Input Message(s):

ADD:PAUTH
CHG:PAUTH
DEL:PAUTH
VFY:PAUTH

Output Message(s):

VFY:PAUTH

Input Appendix(es):

APP:COMMAND-GRP

Other Manual(s):

Where (x) is the release-specific version of the specified manual. 
235-105-210 Routine Operations and Maintenance
235-600-30x ECD/SG Data Base Manual
CHG:SLK

Software Release: 5E14 and later
Command Group: CCS
Application: 5
Type: Input

1. PURPOSE

Requests a change in the minor state of a signaling link (SLK).

2. FORMAT

CHG:SLK=a-b:c;

3. EXPLANATION OF MESSAGE

a = Group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

b = Member number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

c = Requested minor state. Valid value(s):

FIS = This option may be used to force manual out-of-service restrictions from a Common Channel Signaling System 7 (CCS7) link.

GROW = Place the link in the growth state. This state is used during link installation or removal.

IS = Place the link in-service. Make signaling link available to traffic.

MOOS = Place the link manually out-of-service. Signaling link cannot handle traffic. Typically used when performing maintenance on a link.

TEST = Place the link in test state. This state is used during link installation or removal.

A request is made to change the minor state of the particular SLK to the specified state. It should be noted that entering this request does not guarantee the specified action. Successful SLK prove-in is required to accomplish the requested action. For example, when a link is in the MOOS state and is being returned to the IS state, it is actually moved from MOOS to OOS, which allows automatic link prove-in to begin. It is not until successful prove-in has been reached that the link is moved to the IS state.

4. SYSTEM RESPONSE

PF = Printout follows. The CHG:SLK output message will be printed.

5. REFERENCES

Input Message(s):

OP:RING
OP:SLK

Output Message(s):
CHG: SLK
OP: RING
OP: SLK

Input Appendix(es):
APP: RANGES

Other Manual(s):
235-190-120  Common Channel Signaling Services and Associated Signaling Service Feature

MCC Display Page(s):
118 (CNI RING STATUS PAGE)
1520 (RING NODE STATUS PAGE)
1521 (SIGNALING LINK SUMMARY PAGE)
1522 (SIGNALING LINK PAGE)
1. PURPOSE

Requests that the SCCP routing verification test (SRVT) delay parameter, which is used in the calculation of the T2 timer, be changed or displayed. The expiration of the T2 timer signifies the end of the waiting period for the reception and processing of all expected SCCP routing verification acknowledgement (SRVA) messages.

If a request is made to change the delay parameter, and the requested value is within range, it is written onto disk and the delay parameter is updated to the new value. This new value becomes the new “default”, that will be read in on initializations. The initial default is 12.

2. FORMAT

CHG:SRVT[=a];

3. EXPLANATION OF MESSAGE

a = The new value of the delay parameter. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

NOTE: If this argument is not present on the input message line, the current value of the Delay parameter is displayed to the maintenance output class.

4. SYSTEM RESPONSE

PF = Printout follows. Followed by the CHG:SRVT output message.

5. REFERENCES

Input Message(s):

EXC:SRVT
OP:TPC

Output Message(s):

CHG:SRVT
EXC:SRVT
OP:TPC

Input Appendix(es):

APP:RANGES

Other Manual(s):
235-190-120 Common Channel Signaling Service Features
16. CLR
CLR:ACKDB

Software Release: 5E14 and later
Command Group: SFTMGT
Application: 5,3B
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Requests that the segment name of acknowledgement database (ACKDB) be invalidated so that the next invocation of either the shell or display administration process (DAP) reinitializes the segment name using the ACKDB installed in /cft/she/ackdb. Current running processes will continue to use the old copy of the ACKDB until they are terminated. New processes will typically generate NA BAD ACKDB acknowledgements until the shells and display administration process are restarted using the 805 and 808 pokes on the C/D UPDATE MCC page.

WARNING: This message is intended for field update purposes only.

2. FORMAT

CLR:ACKDB;

3. EXPLANATION OF MESSAGE

No variables.

4. SYSTEM RESPONSE

IP = In progress. Request received and initiated. Further output will follow.

5. REFERENCES

Input Message(s):

STOP:EXC-ANY

Output Appendix(es):

APP:ACK-DB

Other Manual(s):
235-105-250  Craft Terminal Lockout Job Aid
235-105-210  Routine Operations and Maintenance
235-600-400  Audits

MCC Display Page(s):

190 (C/D UPDATE)
CLR:ALARMS

Software Release: 5E14 and later
Command Group: ALARM
Application: 5
Type: Input

1. PURPOSE

Requests that the alarm indicators on the display terminals be cleared (retired), the exit pilot light alarm units and the audible alarms. This message has the same effect as pressing the alarm release key (PF4) on a display terminal.

2. FORMAT

CLR:ALARMS;

3. EXPLANATION OF MESSAGE

No variables.

4. SYSTEM RESPONSE

OK = Good. The alarms have been cleared.

NG = No good. The system is unable to clear the alarms.

5. REFERENCES

Other Manual(s):
235-105-210 Routine Operations and Maintenance
235-105-220 Corrective Maintenance
1. PURPOSE

Requests that the automatic message accounting (AMA) partitions on the offline moving head disk (MHD) be cleared during retrofits, disk growths, and updates, to ensure that all billing data recorded on the offline MHD is current.

NOTE: This message has no effect unless a retrofit, disk growth, or update is in progress.

2. FORMAT

CLR:AMA-MAPS;

3. EXPLANATION OF MESSAGE

No variables.

4. SYSTEM RESPONSE

PF = Printout follows. The request has been accepted, and the CLR:AMA-MAPS output message follows.

RL = Retry later. Process could not attach to a protected application segment.

5. REFERENCES

Output Message(s):

CLR:AMA-MAPS

Other Manual(s):

Where (x) is the release-specific version of the specified manual.

235-105-24x Software Release Retrofit
CLR:ARC

Software Release: 5E14 and later
Command Group: NMOC
Application: 5
Type: Input

1. PURPOSE
Clears one or all alternate route cancellation (ARC) controls of a given control type. This TTY message is valid only for defense switched network (DSN) switches.

2. FORMAT

CLR:ARC[,OFFICE=a[,],TYPE=b;]

3. EXPLANATION OF MESSAGE

a = Switching office name. The default is for the total office.

b = Type of control to be cleared. Valid value(s):

CANT = Clear the cancel to (CANT) control. Refer to the SET:ARC input message for the description of CANT.
CANF = Clear the cancel from (CANF) control. Refer to the SET:ARC input message for the description of CANF.

4. SYSTEM RESPONSE

PF = Printout follows. Followed by the CLR:ARC output message.

RL = Retry later. May also include:
- RESOURCE SHORTAGE = The necessary resources are not available.

5. REFERENCES

Input Message(s):

CLR:ARC
OP:ARC
OP:M5
SET:ARC

Output Message(s):

CLR:ARC

Other Manual(s):
235-900-113 Product Specification

MCC Display Page(s):
(DSN EXCEPTION)
(OVERLOAD)
CLR:ASPTQ-A

**Software Release:** 5E14 only
**Command Group:** CCS
**Application:** 5
**Type:** Input

1. PURPOSE

Clears an advanced services platform (ASP) 0.1 test query parameter (or set of parameters) that has been set. All of the fields for a parameter are cleared. By specifying a parameter name, a single parameter may be cleared. By specifying a message type, all of the test query parameters associated with that message are cleared. Since a parameter may be used for more than one message type, clearing such a parameter causes the parameter to be cleared for all message types. Caution should be exercised when choosing the message type option. All of the parameters may be cleared by specifying the ALL message type.

2. FORMAT

CLR:ASPTQ, {MSGPARM=a | MSGTYPE=b};

3. EXPLANATION OF MESSAGE

`a` = The test query parameter name to be cleared. Valid value(s):

- **ACCCD** = Access code.
- **AMAMSMEMENT** = AMA measurement.
- **AMP** = Advanced intelligence network maintenance parameter.
- **BEARCAP** = Bearer capability.
- **BUSYCAUSE** = Busy cause.
- **BUSYTYPE** = Busy type.
- **CHGNBR** = Charge number.
- **CHGTYPE** = Charge party station type.
- **CLDPTY** = Called party ID.
- **CLDTYPE** = Called party station type.
- **CLEARCS** = Clear cause.
- **CLGBGID** = Calling party business group ID.
- **CLGPTY** = Calling party ID.
- **CLOSECAUSE** = Close cause.
- **COLLADR** = Collected address information.
- **COLLDIGS** = Collected digits.
- **DISCCAUSE** = Disconnect cause.
- **DTMFDGTDDET** = Dial tone multi-frequency (DTMF) digits detected.
- **FAILCAUSE** = Failure cause.
- **GENLIST** = Generic address list.
- **GENNAME** = Generic name.
- **GLOBTITLE** = Global title address.
- **LATA** = Local access and transport area.
- **NOTIFYIND** = Notification indicator.
- **OPC** = Origination point code.
- **ORIGCLDPTY** = Original called party ID.
- **PRMCAR** = Primary carrier.
- **RDIRINFO** = Redirection information.
- **RDIRPTY** = Redirecting party ID.
- **TCMARK** = Traveling class mark.
The message type. For convenience, the test query parameters associated with each message type are listed below. Even though the timer parameter is displayed with each message type (refer to the OP:ASPTQ input message), the timer parameter is not cleared when clearing parameters based upon a message type (except for the ALL message type).

Note: The message type of NPINFOANAL is not allowed for the CLR:ASPTQ message. To clear the parameters associated with the number portability (NP) test query message type (TST:ASPTQ, MSGTYPE=NPINFOANAL), use the message type of INFOANAL.

Valid value(s):

**CLOSE** = Close.
- Advanced intelligence network maintenance parameter.
- Bearer capability.
- Close cause.
- User ID.

**INFOANAL** = Information analyzed.
- Access code.
- Advanced intelligence network maintenance parameter.
- Bearer capability.
- Called party ID.
- Calling party business group ID.
- Calling party ID.
- Charge number.
- Charge party station type.
- Collected address information.
- Collected digits.
- Local access and transport area.
- Original called party ID.
- Origination point code.
- Primary carrier.
- Redirecting party ID.
- Redirection information.
- Translation type.
- Traveling class mark.
- Trigger criteria type.
- User ID.
- Vertical service code.
- Global title address.

**INFOCOLL** = Information collected.
- Access code.
- Advanced intelligence network maintenance parameter.
- Bearer capability.
- Calling party ID.
- Charge number.
- Charge party station type.
- Collected address information.
- Collected digits.
- Generic address list.
- Local access and transport area.
- Original called party ID.
- Origination point code.
- Primary carrier.
- Redirecting party ID.
- Redirection information.
- Translation type.
- Traveling class mark.
- Trigger criteria type.
- User ID.
- Vertical service code.
- Global title address.

**NTWKBSY** = Network Busy.
- Bearer capability.
- Called party ID.
- Calling party ID.
- Charge number.
- Charging party station type.
- Local access and transport area.
- Notification indicator.
- Original called party ID.
- Origination point code.
- Primary carrier.
- Redirecting party ID.
- Redirection information.
- Traveling class mark.
- Trigger criteria type.
- User ID.

**OANSWER** = Originating answer.
- Advanced intelligence network maintenance parameter.
- Bearer capability.
- Notification indicator.
- User ID.

**OCLDPTYBSY** = Originating called party busy.
- Advanced intelligence network maintenance parameter.
- Bearer capability.
- Busy cause.
- Called party ID.
- Calling party ID.
- Charge number.
- Charge party station type.
- Local access and transport area.
- Notification indicator.
- Original called party ID.
- Origination point code.
- Primary carrier.
- Redirecting party ID.
- Redirection information.
- Trigger criteria type.
- User ID.

ODISCONNECT = Originating disconnect.
- Advanced intelligence network maintenance parameter.
- Bearer capability.
- Disconnect cause.
- Notification indicator.
- User ID.

ODTMFENTRD = Originating dial tone multi-frequency (DTMF) entered.
- Advanced intelligence network maintenance parameter.
- Bearer capability.
- DTMF digits detected.
- Notification indicator.
- User ID.

ONOANSWER = Originating no answer.
- Advanced intelligence network maintenance parameter.
- Bearer capability.
- Called party ID.
- Calling party ID.
- Charge number.
- Charge party station type.
- Local access and transport area.
- Notification indicator.
- Original called party ID.
- Origination point code.
- Primary carrier.
- Redirecting party ID.
- Redirection information.
- Trigger criteria type.
- User ID.

ORIGAT = Origination attempt.
- Advanced intelligence network maintenance parameter.
- Bearer capability.
- Calling party ID.
- Charge number.
- Charge party station type.
- Local access and transport area.
- Origination point code.
- Primary carrier.
- Translation type.
- Trigger criteria type.
- User ID.
- Global title address.

OTERMSZD = Originating termination seized.
- Advanced intelligence network maintenance parameter.
- Bearer capability.
- Notification indicator.
- User ID.
TANSWER = Terminating answer.
- Advanced intelligence network maintenance parameter.
- Bearer capability.
- Notification indicator.
- User ID.

TBUSY = Terminating busy.
- Advanced intelligence network maintenance parameter.
- Bearer capability.
- Busy cause.
- Busy type.
- Called party ID.
- Called party station type.
- Calling party ID.
- Charge number.
- Charge party station type.
- Generic name.
- Local access and transport area.
- Notification indicator.
- Original called party ID.
- Origination point code.
- Redirecting party ID.
- Redirection information.
- Trigger criteria type.
- User ID.

TERMAT = Termination attempt.
- Advanced intelligence network maintenance parameter.
- Bearer capability.
- Called party ID.
- Called party station type.
- Calling party ID.
- Charge number.
- Charge party station type.
- Generic name.
- Local access and transport area.
- Original called party ID.
- Origination point code.
- Redirecting party ID.
- Redirection information.
- Translation type.
- Traveling class mark.
- Trigger criteria type.
- User ID.
- Global title address.

TNOANSWER = Terminating no answer.
- Advanced intelligence network maintenance parameter.
- Bearer capability.
- Called party ID.
- Called party station type.
- Calling party ID.
- Charge number.
- Charge party station type.
- Generic name.
- Local access and transport area.
- Notification indicator.
- Original called party ID.
- Origination point code.
- Redirecting party ID.
- Redirection information.
- Trigger criteria type.
- User ID.

TRMRSRCAVL = Terminating resource available.
- Advanced intelligence network maintenance parameter.
- Bearer capability.
- Notification indicator.
- User ID.

RESCLR = Resource clear.
- Advanced intelligence network maintenance parameter.
- AMA measurement.
- Clear cause.
- Collected address information.
- Collected digits.
- Failure cause.
- Primary carrier.

ALL = All of the ASP 0.1 test query parameters.

4. SYSTEM RESPONSE

NO = The request is not allowed. Valid value(s):
- FEATURE NOT AVAILABLE = The ASP 0.1 feature must be purchased before attempting to
clear an ASP 0.1 test query parameter.

OK = Good. The request was accepted.

RL = Retry later. Valid value(s):
- INTERNAL ERROR = An internal error was encountered and processing could not continue.

5. REFERENCES

Input Message(s):

OP:ASPTQ
SET:ASPTQ
TST:ASPTQ

Other Manual(s):

235-190-126 Advanced Services Platform
1. PURPOSE

Clears an advanced services platform (ASP) 0.1 test query parameter (or set of parameters) that has been set.

All of the fields for a parameter are cleared. By specifying a parameter name, a single parameter may be cleared. By specifying a message type, all of the test query parameters associated with that message are cleared. Since a parameter may be used for more than one message type, clearing such a parameter causes the parameter to be cleared for all message types. Caution should be exercised when choosing the message type option.

All of the parameters may be cleared by specifying the ALL message type.

2. FORMAT

CLR:ASPTQ, {MSGPARM=a | MSGTYPE=b};

3. EXPLANATION OF MESSAGE

<table>
<thead>
<tr>
<th>a</th>
<th>Valid value(s):</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACCCD</td>
<td>Access code.</td>
</tr>
<tr>
<td>AMAMSMEMENT</td>
<td>AMA measurement.</td>
</tr>
<tr>
<td>AMP</td>
<td>Advanced intelligence network maintenance parameter.</td>
</tr>
<tr>
<td>BEARCAP</td>
<td>Bearer capability.</td>
</tr>
<tr>
<td>BUSYCAUSE</td>
<td>Busy cause.</td>
</tr>
<tr>
<td>BUSYTYPE</td>
<td>Busy type.</td>
</tr>
<tr>
<td>CHGNBR</td>
<td>Charge number.</td>
</tr>
<tr>
<td>CHGTYPE</td>
<td>Charge party station type.</td>
</tr>
<tr>
<td>CLDPTY</td>
<td>Called party ID.</td>
</tr>
<tr>
<td>CLDTYPE</td>
<td>Called party station type.</td>
</tr>
<tr>
<td>CLEARCS</td>
<td>Clear cause.</td>
</tr>
<tr>
<td>CLGBGID</td>
<td>Calling party business group ID.</td>
</tr>
<tr>
<td>CLGPTY</td>
<td>Calling party ID.</td>
</tr>
<tr>
<td>CLOSECAUSE</td>
<td>Close cause.</td>
</tr>
<tr>
<td>COLLADR</td>
<td>Collected address information.</td>
</tr>
<tr>
<td>COLLDIGS</td>
<td>Collected digits.</td>
</tr>
<tr>
<td>DISCCAUSE</td>
<td>Disconnect cause.</td>
</tr>
<tr>
<td>DTMFDGTDDET</td>
<td>Dial tone multi-frequency (DTMF) digits detected.</td>
</tr>
<tr>
<td>EXTENSION</td>
<td>Extension.</td>
</tr>
<tr>
<td>FAILCAUSE</td>
<td>Failure cause.</td>
</tr>
<tr>
<td>GENLIST</td>
<td>Generic address list.</td>
</tr>
<tr>
<td>GENNAME</td>
<td>Generic name.</td>
</tr>
<tr>
<td>GLOBTITLE</td>
<td>Global title address.</td>
</tr>
<tr>
<td>LATA</td>
<td>Local access and transport area.</td>
</tr>
<tr>
<td>NOTIFYIND</td>
<td>Notification indicator.</td>
</tr>
<tr>
<td>OPC</td>
<td>Origination point code.</td>
</tr>
<tr>
<td>ORIGCLDPTY</td>
<td>Original called party ID.</td>
</tr>
<tr>
<td>PLATFORM</td>
<td>Signaling Platform.</td>
</tr>
</tbody>
</table>
The message type. For convenience, the test query parameters associated with each message type are listed below. Even though the timer parameter is displayed with each message type (refer to the OP:ASPTQ input message), the timer parameter is not cleared when clearing parameters based upon a message type (except for the ALL message type).

**NOTE:** The message type of NPINFOANAL is not allowed for the CLR:ASPTQ message. To clear the parameters associated with the number portability (NP) test query message type (TST:ASPTQ,MSGTYPE=NPINFOANAL), use the message type of INFOANAL.

**Valid value(s):**

- **CLOSE**
  - Advanced intelligence network maintenance parameter.
  - Bearer capability.
  - Close cause.
  - User ID.

- **INFOANAL**
  - Access code.
  - Advanced intelligence network maintenance parameter.
  - Bearer capability.
  - Called party ID.
  - Calling party business group ID.
  - Calling party ID.
  - Charge number.
  - Charge party station type.
  - Collected address information.
  - Collected digits.
  - Local access and transport area.
  - Original called party ID.
  - Origination point code.
  - Primary carrier.
  - Redirecting party ID.
  - Redirection information.
  - Signaling platform.
  - Translation type.
  - Traveling class mark.
  - Trigger criteria type.
  - User ID.
  - Vertical service code.
  - Global title address.
INFOCOLL = Information collected.
- Access code.
- Advanced intelligence network maintenance parameter.
- Bearer capability.
- Calling party ID.
- Charge number.
- Charge party station type.
- Collected address information.
- Collected digits.
- Extension.
- Generic address list.
- Local access and transport area.
- Original called party ID.
- Origination point code.
- Primary carrier.
- Redirecting party ID.
- Redirection information.
- Signaling platform.
- Translation type.
- Traveling class mark.
- Trigger criteria type.
- User ID.
- Vertical service code.
- Global title address.

NTWKBSY = Network Busy.
- Bearer capability.
- Called party ID.
- Calling party ID.
- Charge number.
- Charging party station type.
- Local access and transport area.
- Notification indicator.
- Original called party ID.
- Origination point code.
- Primary carrier.
- Redirecting party ID.
- Redirection information.
- Signaling platform.
- Translation type.
- Traveling class mark.
- Trigger criteria type.
- User ID.

OANSWER = Originating answer.
- Advanced intelligence network maintenance parameter.
- Bearer capability.
- Notification indicator.
- User ID.

OCLDPTYBSY = Originating called party busy.
- Advanced intelligence network maintenance parameter.
- Bearer capability.
- Busy cause.
- Called party ID.
- Calling party ID.
- Charge number.
- Charge party station type.
- Local access and transport area.
- Notification indicator.
- Original called party ID.
- Origination point code.
- Primary carrier.
- Redirecting party ID.
- Redirection information.
- Signaling platform.
- Trigger criteria type.
- User ID.

ODISCONNECT = Originating disconnect.
- Advanced intelligence network maintenance parameter.
- Bearer capability.
- Disconnect cause.
- Notification indicator.
- User ID.

ODTMFENTRD = Originating dial tone multi-frequency (DTMF) entered.
- Advanced intelligence network maintenance parameter.
- Bearer capability.
- DTMF digits detected.
- Notification indicator.
- User ID.

ONOANSWER = Originating no answer.
- Advanced intelligence network maintenance parameter.
- Bearer capability.
- Called party ID.
- Calling party ID.
- Charge number.
- Charge party station type.
- Local access and transport area.
- Notification indicator.
- Original called party ID.
- Origination point code.
- Primary carrier.
- Redirecting party ID.
- Redirection information.
- Signaling platform.
- Trigger criteria type.
- User ID.

ORIGAT = Origination attempt.
- Advanced intelligence network maintenance parameter.
- Bearer capability.
- Calling party ID.
- Charge number.
- Charge party station type.
- Local access and transport area.
- Origination point code.
- Primary carrier.
- Signaling platform.
- Translation type.
- Trigger criteria type.
- User ID.
- Global title address.

**OTESZD** = Originating termination seized.
- Advanced intelligence network maintenance parameter.
- Bearer capability.
- Notification indicator.
- User ID.

**TANSWER** = Terminating answer.
- Advanced intelligence network maintenance parameter.
- Bearer capability.
- Notification indicator.
- User ID.

**TBUSY** = Terminating busy.
- Advanced intelligence network maintenance parameter.
- Bearer capability.
- Busy cause.
- Busy type.
- Called party ID.
- Called party station type.
- Calling party ID.
- Charge number.
- Charge party station type.
- Generic name.
- Local access and transport area.
- Notification indicator.
- Original called party ID.
- Origination point code.
- Redirecting party ID.
- REDirection information.
- Signaling platform.
- Trigger criteria type.
- User ID.

**TERMAT** = Termination attempt.
- Advanced intelligence network maintenance parameter.
- Bearer capability.
- Called party ID.
- Called party station type.
- Calling party ID.
- Charge number.
- Charge party station type.
- Generic name.
- Local access and transport area.
- Original called party ID.
- Origination point code.
- Redirecting party ID.
- REDirection information.
4. SYSTEM RESPONSE

- The request is not allowed. May also include:
  - FEATURE NOT AVAILABLE = The ASP 0.1 feature must be purchased before attempting to clear an ASP 0.1 test query parameter. This response can also be received when attempting to clear a parameter that is itself restricted by an additional feature purchase.
OK = Good. The request was accepted.

RL = Retry later. May also include:
- INTERNAL ERROR = An internal error was encountered and processing could not continue.

5. REFERENCES

Input Message(s):

OP: ASPTQ
SET: ASPTQ
TST: ASPTQ

Other Manual(s):
235-190-126 Advanced Services Platform
CLR:AUD

Software Release: 5E14 and later
Command Group: AUDIT
Application: 5
Type: Input

1. PURPOSE

Format 1 requests the clearing of the full static office-dependent data (SODD) audit's schedule. Either part or all of the schedule may be cleared.

Format 2 requests the removal of existing full and incremental SODD audit error logs generated from their previous cycles of execution. All /rclog/SODD/errlog/*.prev files are removed. This input message should be used when the file system space for /rclog is low.

Format 3 requests the removal of single or all current audits from the SODDCNTL file.

Format 4 requests the removal of restart files generated by PRC, MFT=ALL and FULL audits.

2. FORMAT

[1] CLR:AUD=SODD,SCHED,DAY=a;
[3] CLR:AUD=SODD,AUDIT=b;
[4] CLR:AUD=SODD,c;

3. EXPLANATION OF MESSAGE

a

= Day from the full audit schedule to be cleared. Valid value(s):
MON = Monday.
TUE = Tuesday.
WED = Wednesday.
THU = Thursday.
FRI = Friday.
SAT = Saturday.
SUN = Sunday.
ALL = All days. All entries in the schedule are cleared.

b

= Audit to be cleared from the SODDCNTL file. Valid value(s):
BOOT = Boot Critical sub audit.
BRC5 = BRCS sub audit.
CCS = CCS sub audit.
DIGIT = Digit Analysis sub audit.
EQUIP = Equipment sub audit.
FULL = Full audit.
GLOBAL = Global Parameters sub audit.
INCR = Incremental audit.
ISDN = ISDN sub audit.
LINE = Line sub audit.
MISC = Miscellaneous sub audit.
MLHG = MLHG sub audit.
PSMLHG = Packet Switching MLHG sub audit.
OSPS = OESP sub audit.
TRUNK = Trunk sub audit.
PSTRUNK = Packet Switching Trunk sub audit.
ALL = All audits. All audits from the SODDCNTL file are removed.

c = Restart file to be removed. Valid value(s):
PRC = Processor Entity audit.
MFTALL = All BRCS MFT audits.
FULL = Full audit.

4. SYSTEM RESPONSE

PF = Printout follows. Valid value(s):
- OP AUD=SODD SCHED MESSAGE FOLLOWS = Followed by an OP:AUD-SODD-SCH output message.
- OP AUD=SODD MESSAGE FOLLOWS = Followed by an OP:AUD-STATUS or OP:AUD-ERROR output message.
- OP AUD=SODD STATUS MESSAGE FOLLOWS = Followed by an OP:AUD-STATUS or OP:AUD-ERROR output message.

5. REFERENCES

Input Message(s):

EXC:AUD-SODD
SCHED:AUD-SODD
OP:AUD-SODD
STP:AUD-SODD
SET:AUD

Output Message(s):

OP:AUD-ERROR
OP:AUD-SODD-SCH
OP:AUD-STATUS

Other Manual(s):
235-105-210  Routine Operations and Maintenance Manual
CLR:BACKOUT

Software Release: 5E14 and later
Command Group: SYSRCVY
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Requests that non-backed-up application recent changes be cleared from the administrative module (AM) and/or one or more switching modules (SMs) or a communication module processor (CMP) on a bootstrap (pump) of that processor. This message cancels the effect of the SET:BACKOUT input message.

Normally, when a processor undergoes a high-level initialization (selective initialization or full initialization), recently applied recent changes are replaced in the text and/or office dependent data (ODD).

WARNING: Recent changes that have been applied since the last backout will not be included on one or more processors. Permitting backouts of selected processors may introduce inconsistencies between processors which can have adverse effects.

2. FORMAT

CLR:BACKOUT,RC,{CMP=a,{PRIM|MATE}|AM|SM=b[&&c],AM|SM=b[&&c]},{LSM},{HSM},{RSM},{ORM},{TRM};

3. EXPLANATION OF MESSAGE

Note: Refer to the Acronym section of the Input Messages manual for the full expansion of acronyms shown in the format.

MATE = Mate CMP.
PRIM = Primary CMP.
RC = Mark the named processor(s) to include all recent changes that have not been backed up on subsequent AM bootstraps and/or SM pumps.

a = CMP number.
b = SM number, or the lower limit of a range of SM numbers.
c = Upper limit of the range of SM numbers.

4. SYSTEM RESPONSE

NG = No good. The message was not accepted because:
- An illegal SM number or invalid range/type combination was specified.
- An illegal CMP number/type combination was specified.
- The processor type was invalid or missing (AM, SM or CMP).
OK = Good. The message was accepted and the action completed.

5. REFERENCES

Input Message(s):

EXC: ODDRCVY
OP: SYSSTAT
SET: BACKOUT

Other Manual(s):
235-105-220 Corrective Maintenance
235-105-250 System Recovery

MCC Display Page(s):

110 (SYSTEM INHIBITS)
1800 (INH & RCVY CNTL)
1850/1851 (CMP INH & RCVRY CNTL)
CLR:BICCBMOVE

Software Release: 5E16(1) and later
Command Group: CCS
Application: 5
Type: Input

1. PURPOSE

The purpose of this command is to reset environment variables because of an abnormal termination of the EXC:BICCBMOVE input message. This command only resets the environment and will not stop a running EXC:BICCBMOVE process.

To stop an EXC:BICCBMOVE process, use STP:BICCBMOVE.

2. FORMAT

CLR:BICCBMOVE;

3. EXPLANATION OF MESSAGE

No variables.

4. SYSTEM RESPONSE

NG = No Good. May also include:
- CIC ALLOCATION PROCESS IS RUNNING = An EXC:BICCBMOVE process is currently running normally.

OK = Good. The request was accepted and completed. The abnormally terminated EXC:BICCBMOVE process will be cleared from the system.

5. REFERENCES

Input Message(s):

EXC:BICCBMOVE
OP:BICCBMOVE
CLR: BKUP

Software Release: 5E15 and later
Command Group: FHADM
Application: 5,3B
Type: Input

1. PURPOSE

Requests an automated system backup to be unscheduled. This message removes the specified backup entry from the system cron table file.

2. FORMAT

CLR: BKUP: a:DATA, DAY=b, TIME=c;

3. EXPLANATION OF MESSAGE

a = Interval. Valid value(s):
   MONTH = Monthly backup is to be unscheduled.
   WEEK = Weekly backup is to be unscheduled.

b = Day. If 'a' is equal to "WEEK", then this variable is the day of the week. Valid value(s):
   0 = Sunday.
   1 = Monday.
   2 = Tuesday.
   3 = Wednesday.
   4 = Thursday.
   5 = Friday.
   6 = Saturday.

   If 'a' is equal to "MONTH", then this variable is the day of the month (1-31).

c = Time of day the backup is to begin in hours and minutes (hhmm) between 0000 and 2359.
   Example, 2200 is 10:00 PM.

4. SYSTEM RESPONSE

PF = Printout follows. Followed by the CLR: BKUP output message.

5. REFERENCES

Input Message(s):
   ALW: AUTOBKUP
   INH: AUTOBKUP
   OP: BKUP
   SCHED: BKUP
   SET: BKUP
   STP: AUTOBKUP
Output Message(s):

CLR: BKUP

Other Manual(s):

235-105-210  *Routine Operations and Maintenance Procedures*
CLR:CALLMON
Software Release: 5E14 and later
Command Group: SYSRCVY
Application: 5
Type: Input

1. PURPOSE
Requests that the verbose mode of the call monitor be turned off.

2. FORMAT
CLR:CALLMON,VERBOSE

3. EXPLANATION OF MESSAGE
No variables.

4. SYSTEM RESPONSE
OK = Good. The request was accepted.

5. REFERENCES
Input Message(s):
   ALW:CALLMON
   INH:CALLMON
   OP:CALLMON
   RTR:CALLMON
   SET:CALLMON

Output Message(s):
   OP:CALLMON
   REPT:CALLMON-CMR
   REPT:CALLMON-VTC

Output Appendix(es):
   APP:CALLMON

Other Manual(s):
235-105-110 System Maintenance Requirements and Tools
235-105-210 Routine Operations and Maintenance

MCC Display Page(s):
   116 (MISCELLANEOUS)
CLR:CCS-SRST

Software Release: 5E15 and later
Command Group: CCS
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Clears the status of a route making it available, and stops the signaling route set test (SRST) for the route.

WARNING: Use of this message may be service affecting.

2. FORMAT

CLR:CCS,SRST,SM=a, {DPC=b|CLUSTER=c} [ ,LS=d ];

3. EXPLANATION OF MESSAGE

a  = Common channel signaling (CCS) global switching module (GSM) number.
   Note: It is required that the GSM number is provided by the craft for this command.

b  = Destination point code (DPC) identifier. This format is network-cluster-member. Refer to the APP:POINT-CODE appendix in the Appendixes section of the Input Messages manual.

c  = Cluster identifier. This format is network-cluster only. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

d  = Link set. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
   Note: If LS is not specified, the change/removal shall be applied to all applicable linksets within the GSM. If parallel link sets are provisioned to the same DPC they will also be cleared.

4. SYSTEM RESPONSE

NG  = No good. The syntax of a message is valid, but the message has been denied. The request can be repeated. May also include:
   − INVALID GSM SPECIFIED = Invalid GSM number specified by the craft.
   − EITHER DPC OR CLUSTER MUST BE PROVIDED = Either DPC or cluster must be provided by the craft.
   − OFFICE NOT EQUIPPED WITH CCS = Office not equipped with CCS signaling.

PF  = Printout follows. The request was received and will be acted on. The CLR:SRST output message follows.

RL  = Retry later. System resources are unavailable to execute this input message now.
5. REFERENCES

Output Message(s):

CLR: CCS-SRST

Input Appendix(es):

APP: RANGES
APP: POINT-CODE
CLR:CGAP

Software Release: 5E14 and later
Command Group: NMOC
Application: 5
Type: Input

1. PURPOSE

Requests clearance of a network management (NM) call gapping (CGAP) code control restricting traffic by issuing a destination code, an access prefix, or both. This message also has an option to clear all CGAP code controls in the office.

Format 1 clears all the CGAP code controls in the office. Format 2 clears the CGAP code control for a specified destination code regardless of the access prefix. Format 3 clears the CGAP code control for a specified prefix regardless of the destination code. Format 4 clears the CGAP code control for a specified destination code and a specified prefix.

2. FORMAT

[1] CLR:CGAP;
[2] CLR:CGAP,CODE=a,DOM={ALL|c};
[3] CLR:CGAP,PREFIX=b,DOM={ALL|c};
[4] CLR:CGAP,CODE=a,PREFIX=b,DOM={ALL|c};

3. EXPLANATION OF MESSAGE

ALL = Clear code control to all domains. The default is to clear all CGAP code controls in the office.

NOTE: If the control is set on code, prefix, and domain, all three are required in the message to clear the control.

a = Destination code (up to 18 characters; valid character set 0-9,”*”,#).

b = The access prefix. The access prefix only applies to feature group D carriers.

c = Switching domain list.

4. SYSTEM RESPONSE

PF = Printout follows. Followed by the CLR:CGAP output message.

RL = Retry later. May also include:
   - RESOURCE SHORTAGE = The necessary resources are not available.

5. REFERENCES

Input Message(s):

OP:CGAP
OP:M5
SET: CGAP

Output Message(s):
CLR: CGAP

Other Manual(s):
235-190-115  Local and Toll System Features

MCC Display Page(s):
130 (NM EXCEPTION)
109 (OVERLOAD)
CLR:DCC

Software Release: 5E14 and later
Command Group: NMOC
Application: 5
Type: Input

1. PURPOSE
Clears destination code cancellation (DCC) controls restricting traffic. This TTY message is valid only for defense switched network (DSN) switches.

2. FORMAT
CLR:DCC[,CODE=a];

3. EXPLANATION OF MESSAGE
a = Digit destination code (up to 15 digits). The default is all codes.

4. SYSTEM RESPONSE
PF = Printout follows. Followed by the CLR:DCC output message.
RL = Retry later. May also include:
   - RESOURCE SHORTAGE = The necessary resources are not available.

5. REFERENCES
Input Message(s):
   OP:DCC
   OP:M5
   SET:DCC

Output Message(s):
   CLR:DCC

Other Manual(s):
235-900-113  Product Specification

MCC Display Page(s):
   (DSN EXCEPTION)
   (OVERLOAD)
CLR:DOC

Software Release: 5E14 and later
Command Group: NMOC
Application: 5
Type: Input

1. PURPOSE

Requests that a single dynamic overload control (DOC) be cleared on a specified trunk group.

2. FORMAT

CLR:DOC,TG=a;

3. EXPLANATION OF MESSAGE

a = Trunk group number.

4. SYSTEM RESPONSE

NG = No good. May also include:
   - INVALID REQUEST = The request has been denied. This office is not equipped to process the
     request entered.

PF = Printout follows. Followed by the CLR:DOC output message.

RL = Retry later. May also include:
   - RESOURCE SHORTAGE = The necessary resources are not available.

5. REFERENCES

Input Message(s):

ASGN:DOC
OP:DOC

Output Message(s):

CLR:DOC

Other Manual(s):
235-190-120  CCS7 Signaling Service Features

MCC Display Page(s):

130 (NM EXCEPTION)
CLR:DSE

Software Release: 5E14 and later
Command Group: CCS
Application: 5
Type: Input

1. PURPOSE

Requests that the trapping and printing of direct signaling events (DSE) be turned off. These events will be reported in the REPT:ACP-APP-SM, REPT:ASP, REPT:DSE, REPT:MS-TRAPPED, REPT:NS and REPT:OSPS-DSE output messages.

2. FORMAT

CLR:DSE=a;

3. EXPLANATION OF MESSAGE

a = Event trap to be turned off. Valid value(s):
   ALL = All events.
   AILSGMG = Automated inward line screening (AILS) message received with invalid format reply.
   AILSMRQ = AILS error - misrouted query.
   AILSTOT = AILS query timed out before a reply was received.
   AILSTRF = AILS error - task refused.
   AILSUDV = AILS error - message received with unexpected input data value.
   ASPACGCOMP = Advanced services platform (ASP) service control point (SCP) response or unidirectional message with an automatic call gap (ACG) component received at the switch.
   ASPBADRESP = ASP SCP response message received with invalid data.
   ASPNORTEMSG = ASP reject message, return error and a play announcement received at the switch from the SCP.
   ASPQRYFAIL = ASP query blocked by network management (NM) ACG, a returned query or conversation received at the switch or a time out received in call processing.
   ASPSNCOMP = ASP SCP response message with a send notification component received at the switch.
   ASPTNMSG = ASP termination notification message sent from the switch to the SCP.
   CASDBOV = Customer account services (CAS) message received indicating database overload.
   CASDBUN = CAS message returned - database unable to process.
   CASGMSG = CAS message received garbled.
   CASNBLK = CAS message returned because of network blockage.
   CASNCON = CAS message returned because of network congestion.
   CASNRTE = CAS message returned because of no routing data.
   CASTOUT = CAS message returned because of timeout.
   CASUNEQ = CAS message returned because of unequipped destination.
   CASURPY = CAS message received with an unexpected reply.
   CAS7ABM = CAS common channel signaling 7 (CCS7) abort message received.
   CAS7ACG = CAS CCS7 ACG invoke component received.
   CAS7GMG = CAS CCS7 received with invalid format reply.
   CAS7GWE = CAS CCS7 error - gateway error.
   CAS7MPR = CAS CCS7 error - message received with missing parameter.
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<td>LIDBUUR</td>
<td>LIDB return value unequipped user.</td>
</tr>
<tr>
<td>LNBS</td>
<td>Call failed due to the query being blocked at the switch.</td>
</tr>
<tr>
<td>LNBN</td>
<td>Call failed due to the query being blocked in the common channel signaling</td>
</tr>
<tr>
<td></td>
<td>(CCS) network.</td>
</tr>
<tr>
<td>LNGTCAP</td>
<td>Garbled transaction capabilities application part (TCAP) message received -</td>
</tr>
<tr>
<td></td>
<td>message can not be parsed.</td>
</tr>
<tr>
<td>LNNCANI</td>
<td>Centralized automatic message accounting (CAMA) call failed due to CAMA</td>
</tr>
<tr>
<td></td>
<td>trunk not providing automatic number identification (ANI) for query.</td>
</tr>
<tr>
<td>LNNCFI</td>
<td>Call failure due to some reason while the transaction with the network</td>
</tr>
<tr>
<td></td>
<td>control point (NCP) is active.</td>
</tr>
<tr>
<td>LNRER</td>
<td>Call failed due to the conversation with the NCP resulting in a return error</td>
</tr>
<tr>
<td></td>
<td>response.</td>
</tr>
<tr>
<td>Code</td>
<td>Description</td>
</tr>
<tr>
<td>------</td>
<td>-------------</td>
</tr>
<tr>
<td>LNRR</td>
<td>Call failed due to the conversation with the NCP resulting in a reject response.</td>
</tr>
<tr>
<td>LNTIM</td>
<td>Call failed due to the query not being answered in time by the NCP.</td>
</tr>
<tr>
<td>LNTRF</td>
<td>Call failed due to the NCP answering with a terminate request.</td>
</tr>
<tr>
<td>MSFAILRCVD</td>
<td>A &quot;Message Service System (MSS) reject&quot; message or a &quot;return error&quot; message was received at the near/far switch from the far/near switch respectively.</td>
</tr>
<tr>
<td>MSFAILSENT</td>
<td>An &quot;MSS reject&quot; message or a &quot;return error&quot; message was sent to the near/far switch respectively.</td>
</tr>
<tr>
<td>MSQRYFAIL</td>
<td>A timeout was received in MSS. A &quot;return query&quot; message was received at the near switch because of network failure or failure to send a query.</td>
</tr>
<tr>
<td>NCDATA</td>
<td>Network call denial (NCD) denied after answer.</td>
</tr>
<tr>
<td>NCDBEFA</td>
<td>NCD denied before answer.</td>
</tr>
<tr>
<td>NCDBLKD</td>
<td>NCD returned blocked.</td>
</tr>
<tr>
<td>NCDCCBL</td>
<td>NCD code control blocked.</td>
</tr>
<tr>
<td>NCDDBOV</td>
<td>NCD database overload.</td>
</tr>
<tr>
<td>NCDDENY</td>
<td>NCD deny received.</td>
</tr>
<tr>
<td>NCDDSBL</td>
<td>NCD direct signaling blocked.</td>
</tr>
<tr>
<td>NCDNOXL</td>
<td>NCD returned no translation.</td>
</tr>
<tr>
<td>NCDOLVD</td>
<td>NCD returned overload.</td>
</tr>
<tr>
<td>NCDUNEQ</td>
<td>NCD returned unequipped.</td>
</tr>
<tr>
<td>NSACGCOMP</td>
<td>Number services (NS) SCP response message with an ACG component received at the switch.</td>
</tr>
<tr>
<td>NSBADRESP</td>
<td>NS SCP response message with invalid data.</td>
</tr>
<tr>
<td>NSNONRTEMSG</td>
<td>NS reject message, a return error and a play announcement received at the switch respectively.</td>
</tr>
<tr>
<td>NSQRYFAIL</td>
<td>NS query blocked by NM ACG, a returned query received at the switch or a timeout received in call processing.</td>
</tr>
<tr>
<td>NSSNCOMP</td>
<td>NS SCP response message with a send notification received at the switch.</td>
</tr>
<tr>
<td>NSTNMNG</td>
<td>NS termination notification message sent from the switch to the SCP.</td>
</tr>
<tr>
<td>OLNABM</td>
<td>OSPS LNP abort message received.</td>
</tr>
<tr>
<td>OLPACG</td>
<td>OSPS LNP ACG invoke component received.</td>
</tr>
<tr>
<td>OLNPEC</td>
<td>OSPS LNP error code received.</td>
</tr>
<tr>
<td>OLNPGMG</td>
<td>OSPS LNP received with invalid format reply.</td>
</tr>
<tr>
<td>OLPNLCG</td>
<td>OSPS LNP message returned because of network congestion.</td>
</tr>
<tr>
<td>OLPNPF</td>
<td>OSPS LNP message returned because of network failure.</td>
</tr>
<tr>
<td>OLPNPR</td>
<td>OSPS LNP reject component received.</td>
</tr>
<tr>
<td>OLPNSC</td>
<td>OSPS LNP message returned because of subsystem congestion.</td>
</tr>
<tr>
<td>OLPNSTL</td>
<td>OSPS LNP message returned because of subsystem failure.</td>
</tr>
<tr>
<td>OLPNOPT</td>
<td>OSPS LNP query which timed out before reply received.</td>
</tr>
<tr>
<td>OLPNPTA</td>
<td>OSPS LNP message returned - no translation data for this specific address.</td>
</tr>
<tr>
<td>OLPNPSN</td>
<td>OSPS LNP message returned - no translation data for address of such nature.</td>
</tr>
<tr>
<td>OLPNUQD</td>
<td>OSPS LNP message returned - unqualified.</td>
</tr>
<tr>
<td>OLPNRU</td>
<td>OSPS LNP received with unexpected reply.</td>
</tr>
<tr>
<td>OLPNUR</td>
<td>OSPS LNP message returned - unequipped user.</td>
</tr>
<tr>
<td>RATDBOV</td>
<td>Rating message received indicating database overload.</td>
</tr>
<tr>
<td>RATDBUN</td>
<td>Rating message returned because database unable to process.</td>
</tr>
<tr>
<td>RATGMSG</td>
<td>Rating message received garbled.</td>
</tr>
<tr>
<td>RATOUT</td>
<td>Rating message returned because of timeout.</td>
</tr>
<tr>
<td>RATTR</td>
<td>Rating message received with an unexpected reply.</td>
</tr>
<tr>
<td>SDNBSN</td>
<td>Call failed due to the query's being blocked at the switch.</td>
</tr>
<tr>
<td>SDNBE</td>
<td>Call failed due to the query's being blocked in the common channel signaling (CCS) network.</td>
</tr>
</tbody>
</table>
**SDNGTCAP** = Garbled transaction capabilities application part (TCAP) message received - message can not be parsed.

**SDNNCANI** = Centralized automatic message accounting (CAMA) call failed due to CAMA trunk's not providing automatic number identification (ANI) for query.

**SDNNCFA** = Call failed while the transaction with the network control point (NCP) was active.

**SDNNCFI** = Call failed while the transaction with the NCP was inactive.

**SDNOCANI** = CAMA call failed due to CAMA trunk's not providing ANI through operator number identification (ONI) for query.

**SDNRER** = Call failed because to the conversation with the NCP resulting in a return error response.

**SDNRR** = Call failed because to the conversation with the NCP resulting in a reject response.

**SDNTIM** = Call failed due to the query's not being answered in time by the NCP.

**SDNTRF** = Call failed due to the NCP’s answering with a terminate request.

### 4. SYSTEM RESPONSE

**OK** = Good. The request was received and the trap was deactivated.

### 5. REFERENCES

**Input Message(s):**

```
SET:DSE
```

**Output Message(s):**

```
REPT:ACP-APP-SM
REPT:ASP
REPT:DSE
REPT:MS-TRAPPED
REPT:NS
REPT:OSPS-DSE
```

**Other Manual(s):**

Where 'x' is the release-specific version of the specified manual.

- 235-190-120 *Common Channel Signaling Service Features*
- 235-190-12x *Advanced Services Platform*
CLR:DSNM5-B

Software Release: 5E14 and later
Command Group: NMOC
Application: 5
Type: Input

1. PURPOSE

Deletes a package (PKG) from the five-minute (M5) surveillance data set of packages. This TTY message is valid only for defense switched network (DSN) switches.

2. FORMAT

CLR:DSNM5,PKG=a;

3. EXPLANATION OF MESSAGE

a = Package. Valid value(s):
   ARC = Alternate route cancellation control.
   CLCT = Network management control counts.
   CLDIR = Call direction.
   DCC = Destination code cancellation control.
   DLYR = Delayed readiness.
   IMA = Additional ineffective machine attempts.
   OVRLD = Overload or congestion control.
   RRC = Manual reroute trunk group controls.
   SVC = Critical service circuits.
   TGFLAG = Trunk group flags.
   TGMEAS = Basic trunk group measurements.

4. SYSTEM RESPONSE

NG = No good. Valid value(s):
   - PACKAGE UNASSIGNED = Package not assigned for data collection.

PF = Printout follows. Followed by the CLR:DSNM5 output message.

RL = Retry later. Valid value(s):
   - LOCKED OUT = Package data is currently locked out for five-minute data collection.

5. REFERENCES

Input Message(s):

   OP: M5PKG
   SET: DSNM5

Output Message(s):
CLR:DSNM5

Other Manual(s):
235-900-113  Product Specification

MCC Display Page(s):
129 (DSN NM EXCEPTION)
109 (OVERLOAD)
CLR:EMERDMP

**Software Release:** 5E14 and later  
**Command Group:** SYSRCVY  
**Application:** 5,3B  
**Type:** Input

1. **PURPOSE**

Clears the emergency dump partition status flag. The flag is set whenever an emergency dump is written to disk. Until the flag is cleared, it causes the REPT:EMER-DUMP output message to be printed periodically and prevents a new emergency dump being written to disk until 12 hours later. The user is provided with sufficient time to copy out the partition contents onto a tape.

2. **FORMAT**

CLR:EMERDMP;

3. **EXPLANATION OF MESSAGE**

No variables.

4. **SYSTEM RESPONSE**

OK  = Good. Emergency dump partition is marked empty.  
PF  = Printout follows. Followed by the CLR:EMERDMP output message.

5. **REFERENCES**

**Input Message(s):**

COPY:TAPE-EMERDMP  
OP:EMERSTAT

**Output Message(s):**

CLR:EMERDMP  
REPT:EMER-DUMP

**Other Manual(s):**

235-105-110  *System Maintenance Requirements and Tools*  
235-105-210  *Routine Operations and Maintenance*  
235-105-220  *Corrective Maintenance*
CLR:ESA
Software Release: 5E14 and later
Command Group: MAINT
Application: 5
Type: Input

1. PURPOSE
Request to clear the forced active state of an enhanced 911 service adjunct (ESA).

2. FORMAT
CLR:ESA:FRC;

3. EXPLANATION OF MESSAGE
No variables.

4. SYSTEM RESPONSE
NG = No good. May also include:
   - FAILED TO SEND MESSAGE = The request has been denied because the message cannot be sent to the communication module processor (CMP) to process the requested information.
   - FEATURE NOT AVAILABLE = The request has been denied because the dual ESA for E911 (SFID 108) and/or the dual ESA enhancements special feature (SFID 141) have not been purchased.
   - NOT AN ESA OFFICE = The request has been denied because the ESAs for the office have not been equipped (E911 OPTION field on RC/V View 8.1 is not ESA).

PF = Printout follows. The CLR:ESA output message follows.

RL = Retry later. May also include:
   - CMP UNAVAILABLE = The message can not be sent. The communications module processor (CMP) is not available.
   - OTHER REQUEST IN PROGRESS = Another ESA request is currently in progress.

5. REFERENCES
Input Message(s):
   OP:ESA
   SET:ESA

Output Message(s):
   CLR:ESA
   OP:ESA
   REPT:ESA
   SET:ESA
Other Manual(s):
235-900-303  ISDN Application Processor Interface Specification

RC/V View(s):

8.1 [OFFICE PARAMETERS (MISCELLANEOUS)]
24.7 (DSL APPLICATION PROCESSOR COMMUNICATION DATA)
CLR:ESM

Software Release: 5E14 and later
Command Group: SYSRCVY
Application: 5
Type: Input

1. PURPOSE

Requests that the external sanity monitor (ESM) alarm be cleared.

2. FORMAT

CLR: ESM;

3. EXPLANATION OF MESSAGE

No variables.

4. SYSTEM RESPONSE

NG = No good. The unit was not equipped or powered up.
OK = Good. The request has been received and processed.

5. REFERENCES
CLR:FANALM-3B

Software Release: 5E14 and later
Command Group: ALARM
Application: 5,3B
Type: Input

1. PURPOSE

Requests that a remote reset of the administrative module (AM) fan alarm (FANALM) distribute point be performed. The points are identified by physical location (Format 1) or by logical address (Format 2).

2. FORMAT

[1] CLR:FANALM:UNIT=a,PT=b[-b-b-b];

[2] CLR:FANALM:GRPN="c",DUPID=d,PT=e[-e-e-e];

3. EXPLANATION OF MESSAGE

a = Scanner and signal distributor (SCSD) unit number.
b = Physical point number on SCSD.
c = Name of the logical SCSD group. Logical SCSD group names for fan alarms begin with the prefix FANA. Valid value(s):

   FANACU0
   FANACU1
d = Duplex identifier.
e = Logical point number.

4. SYSTEM RESPONSE

NG = No good. SCSD administrator process is not active; no communication with SD points is possible.
PF = Printout follows. Followed by the CLR:FANALM-3B output message.
RL = Retry later.

5. REFERENCES

Input Message(s):

   ALW:SCSD
   INH:SCSD
   OP:SCSD

Output Message(s):

   CLR:FANALM-3B
CLR:FANALM-A

Software Release: 5E14 only
Command Group: ALARM
Application: 5,3B
Type: Input

1. PURPOSE

Requests that a fan alarm be cleared.

2. FORMAT

CLR:FANALM,a [=b];

3. EXPLANATION OF MESSAGE

a = Unit to be cleared. Parameter values are. Valid value(s):
   CNI = Common network interface.
   MFFAN = Miscellaneous frame (CM2 offices only).
   MSGS = Message switch.
   ONTC = Office network and timing complex (CM2 offices only).
   SM = Switching module.
   TMS = Time-multiplexed switch.

b = Valid value(s):

<table>
<thead>
<tr>
<th>If a =</th>
<th>&quot;b&quot; =</th>
</tr>
</thead>
<tbody>
<tr>
<td>TMS, MSGS or ONTC</td>
<td>Unit number.</td>
</tr>
<tr>
<td>SM</td>
<td>SM number.</td>
</tr>
</tbody>
</table>

4. SYSTEM RESPONSE

PF = Printout follows. The CLR:FANALM output message follows.

RL = Retry later (SM case only). Valid value(s):
   REMOTE RESET ALREADY IN PROGRESS = A fan reset operation is already in progress on that SM.

5. REFERENCES

Output Message(s):

CLR:FANALM
REPT:ALM
REPT:FAN-FAIL-AS

Other Manual(s):
235-105-220 Corrective Maintenance
CLR:FANALM-B

Software Release: 5E15 and later
Command Group: ALARM
Application: 5,3B
Type: Input

1. PURPOSE

Requests that a fan alarm be cleared.

2. FORMAT

CLR:FANALM,a [=b ];

3. EXPLANATION OF MESSAGE

a = Unit to be cleared. Parameter values are. Valid value(s):
   CM = Communications module.
   CNI = Common network interface.
   MFFAN = Miscellaneous frame (CM2 offices only).
   MSGS = Message switch.
   ONTC = Office network and timing complex (CM2 offices only).
   SM = Switching module.
   TMS = Time-multiplexed switch.

b = Valid value(s):

<table>
<thead>
<tr>
<th>If 'a' =</th>
<th>'b' =</th>
</tr>
</thead>
<tbody>
<tr>
<td>CM, CNI, MSGS, ONTC</td>
<td>NULL</td>
</tr>
<tr>
<td>SM</td>
<td>SM number</td>
</tr>
</tbody>
</table>

4. SYSTEM RESPONSE

PF = Printout follows. The CLR:FANALM output message follows.

RL = Retry later (SM case only). Valid value(s):
   - REMOTE RESET ALREADY IN PROGRESS = A fan reset operation is already in progress on that SM.

5. REFERENCES

Output Message(s):

CLR:FANALM
REPT:ALM
REPT:FAN-FAIL-AS

Other Manual(s):
235-105-220 Corrective Maintenance
1. PURPOSE
Clears the forced configuration of the message switch control unit (MSCU). The maintenance state of the active forced side changes to ACT and the state of the other side changes to OOS MAN RMV.

2. FORMAT
CLR:FRC, MSCU;

3. EXPLANATION OF MESSAGE
No variables.

4. SYSTEM RESPONSE

NG = No good. The request has been denied. The message syntax is valid, but the request could not be processed. Refer to the APP:CM-IM-REASON appendix in the Appendixes section of the Input Messages manual for a list of possible reasons for denying the request.

PF = Printout follows.

RL = Retry later. The request cannot be executed now because the communication module (CM) deferred maintenance queue (DMQ) is full.

5. REFERENCES

Input Message(s):

OP:CFGSTAT
SET:FRC-MSCU

Output Message(s):

CLR:FRC-MSCU
OP:CFGSTAT
SET:FRC-MSCU

Input Appendix(es):

APP:CM-IM-REASON
CLR:FRC-NCOSC-A
Software Release: 5E14 only
Command Group: CM
Application: 5
Type: Input

1. PURPOSE
Requests that the forced (FRC) configuration on the network clock 2 oscillator (NCOSC) be cleared. The maintenance state of the active forced side changes to 'active' (ACT) and the state of the other side changes to OOS MAN RMV.

2. FORMAT
CLR:FRC-NCOSC;

3. EXPLANATION OF MESSAGE
No variables.

4. SYSTEM RESPONSE
NG = No good. The message syntax is valid, but the request conflicts with the current system or equipment status.
PF = Printout follows. The CLR:FRC-NCOSC output message follows.
RL = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES
Input Message(s):
RST:NCOSC
SET:FRC-NCOSC

Output Message(s):
CLR:FRC-NCOSC
RST:NCOSC

MCC Display Page(s):
1211 (NETWORK CLOCK)
1. PURPOSE

Clears the forced configurations on the network clock oscillator (NCOSC).

One of the following three events may result from this command:
- The side of the NCOSC that is forced goes active if there is no fault detected. The unavailable side goes out of service.
- The side of the NCOSC that is forced goes out of service if a fault is detected. The unavailable side goes active.
- Service on the side of the NCOSC that is forced becomes degraded if faults are found on both sides and the unavailable side goes out of service.

2. FORMAT

CLR:FRC,NCOSC;

3. EXPLANATION OF MESSAGE

No variables.

4. SYSTEM RESPONSE

NG = No good. The message syntax is valid, but the request conflicts with the current system or equipment status.

PF = Printout follows. The CLR:FRC-NCOSC output message follows.

RL = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

Input Message(s):

RST:NCOSC
SET:FRC-NCOSC

Output Message(s):

CLR:FRC-NCOSC
RST:NCOSC

MCC Display Page(s):

1210 (NETWORK CLOCK)
1211 (NETWORK CLOCK REFERENCES)
CLR:FRC-ONTCCOM

**Software Release:** 5E14 and later  
**Command Group:** CM  
**Application:** 5  
**Type:** Input

1. **PURPOSE**

Clears the forced configuration on the office network and timing complex common unit (ONTCCOM). The maintenance state of the active forced side changes to 'active major' (ACT MAJ) and the state of the other side changes to 'out-of-service, manual, removed' (OOS MAN RMV).

2. **FORMAT**

CLR:FRC-ONTCCOM;

3. **EXPLANATION OF MESSAGE**

No variables.

4. **SYSTEM RESPONSE**

NG = No good. The request has been denied. The message syntax is valid, but the request could not be processed. Refer to the APP:CM-IM-REASON appendix in the Appendixes section of the Input Messages manual for a list of possible reasons for denying the request.

PF = Printout follows.

RL = Retry later. The request cannot be executed now because the communication module (CM) deferred maintenance queue (DMQ) is full.

5. **REFERENCES**

Input Message(s):

```
OP:CFGSTAT
SET:FRC-ONTCCOM
```

Output Message(s):

```
CLR:FRC-ONTCCOM
OP:CFGSTAT
SET:FRC-ONTCCOM
```

Input Appendix(es):

```
APP:CM-IM-REASON
```
CLR:FRC-TRCU3

Software Release: 5E14 and later
Command Group: CM
Application: 5
Type: Input

1. PURPOSE
This request is used to clear the "force" on a particular function pack pair of a TRCU3 circuit. There is no force state of a function pair, so this request is accomplished by clearing hardware register on the mate function pack which was set by the force command to make it faulty. This command is needed to facilitate TRCU3 function pack replacement.

2. FORMAT
CLR:FRC,TRCU3=a-b-c,{HOST|REMOTE};

3. EXPLANATION OF MESSAGE
a = Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
b = TRCU Path (TRCUPATH). This is the TRCUPATH connecting a host and remote TRCU3 circuits.
c = Side. This is the side of the CM which the function pack is connected that is desired to clear the force active.

HOST
"HOST" refers to the TRCU3 at the host location next which connects to the CM.

REMOTE
"REMOTE" refers to the TRCU3 at the remote location which is connected to the optically remoted (switching) module. (ORM).

4. SYSTEM RESPONSE

NG = No good. The request has been denied. The message syntax is valid, but the request could not be processed. Refer to the APP:CM-IM-REASON appendix in the Appendixes section of the Input Messages manual for a list of possible reasons for denying the request. Refer to the CLR FRC TRCU3 output message.

PF = Printout follows.

RL = Retry later. The request cannot be executed now.

5. REFERENCES
Input Message(s):

SET:FRC-TRCU3

Output Message(s):

CLR FRC-TRCU3
SET FRC-TRCU3

Input Appendix(es):

APP:CM–IM–REASON
CLR:FSYS-DIR

Software Release: 5E14 and later
Command Group: FHADM
Application: 5,3B
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Removes a directory from the file system. The directory must be empty (no files or subdirectories stored under the directory name) before it can be removed.

WARNING: Incorrect use of this input message can result in the removal of needed file system directories.

2. FORMAT

CLR:FILESYS,DIR,FN="a";

3. EXPLANATION OF MESSAGE

a = Pathname of the directory to be removed.

4. SYSTEM RESPONSE

PF = Printout follows. Followed by the CLR:FSYS-DIR output message.

5. REFERENCES

Input Message(s):

CLR:FSYS-FILE
IN:FSYS-DIR
OP:ST-LISTDIR

Output Message(s):

CLR:FSYS-DIR

Other Manual(s):
235-105-210 Routine Operations and Maintenance

MCC Display Page(s):

CRAFT FM 01)
CLR:FSYS-FILE

Software Release: 5E14 and later
Command Group: FHADM
Application: 5,3B
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Request that a file be removed from a directory.

WARNING: Incorrect use of this input message can result in the removal of needed files and processes.

2. FORMAT

CLR:FILESYS,FILE,FN="a";

3. EXPLANATION OF MESSAGE

a = Pathname of the file.

4. SYSTEM RESPONSE

PF = Printout follows. Followed by the CLR:FSYS-FILE output message.

5. REFERENCES

Input Message(s):

OP:ST-LISTDIR

Output Message(s):

CLR:FSYS-FILE
OP:ST-LISTDIR

Other Manual(s):

235-105-210 Routine Operations and Maintenance

MCC Display Page(s):

(CRAFT FM 01)
CLR:GRC

**Software Release:** 5E14 and later  
**Command Group:** RCV  
**Application:** 5  
**Type:** Input

1. **PURPOSE**

Requests that a global recent change (GRC) job that is waiting in the queue be canceled. The GRC job still exists but needs to be rescheduled using the SCHED:GRC input message or recent change/verify (RC/V) View 28.1 to be released. If the GRC job has been split, SECT must be provided.

2. **FORMAT**

CLR:GRC,NAME=a[,SECT=b];

3. **EXPLANATION OF MESSAGE**

a = GRC name (up to 10 characters).

b = GRC section number.

4. **SYSTEM RESPONSE**

**PF** = Printout follows. The GRC:STATUS output message follows indicating the beginning of the operation.

**NG** = No good. The request was denied. A GRC:ERROR output message will provide the reason for the failure.

5. **REFERENCES**

Input Message(s):

SCHED:GRC

Output Message(s):

GRC:ERROR
GRC:STATUS

Other Manual(s):

Where (x) is the release-specific version of the specified manual.

- 235-118-251 Recent Change Procedures
- 235-118-25x Recent Change Reference
- 235-070-100 Administration and Engineering Guidelines
CLR:HIST

**Software Release:** 5E14 and later  
**Command Group:** NOCHK  
**Application:** 5  
**Type:** Input

1. **PURPOSE**

Clears out the command history buffer. All previously stored input requests are no longer available and cannot be recalled. CLR:HIST does not affect the status of history recording. Subsequent input commands entered at the terminal will be stored if history recording is allowed.

By default, history recording is allowed when a terminal comes into service.

2. **FORMAT**

CLR:HIST;

3. **EXPLANATION OF MESSAGE**

None.

4. **SYSTEM RESPONSE**

OK = Good. The input request was accepted and has been applied.

5. **REFERENCES**

Input Message(s):

ALW:HIST  
INH:HIST  
OP:HIST

Output Message(s):

OP:HIST
CLR:HPRI

Software Release: 5E14 and later
Command Group: MAINT
Application: 5
Type: Input

1. PURPOSE

To deactivate the high priority terminal feature. This input message will deactivate the high priority terminal feature and reset the terminal to its original priority. For additional information, refer to the SET:HPRI input message.

2. FORMAT

CLR:HPRI;

3. EXPLANATION OF MESSAGE

No variables.

4. SYSTEM RESPONSE

PF = Printout follows. The request was accepted. The CLR:HPRI output message will be printed.

NG = No good. The input message entered is invalid. May also include:
   - SPECIAL FEATURE NOT AVAILABLE = Secured feature bit is not turned on.

5. REFERENCES

Input Message(s):

   OP:HPRI
   SET:HPRI

Output Message(s):

   CLR:HPRI
CLR:IMCAT

Software Release: 5E14 and later
Command Group: SFTMGT
Application: 5,3B
Type: Input

1. PURPOSE
Invalidates the memory segments of the old input message catalog, forcing the new one to be loaded into the main memory. This message is used during a field update of the input message catalog.

2. FORMAT
CLR:IMCAT;

3. EXPLANATION OF MESSAGE
No variables.

4. SYSTEM RESPONSE

NG = No good. May also include:
    - FILE = File did not open.
    - SEGCODE = No segment names.
    - SEGMENT = Segments not marked invalid.

OK = Good. Segments are marked invalid.

PF = Printout follows. Followed by the CLR:IMCAT output message.

5. REFERENCES
Output Message(s):

    CLR: IMCAT

Other Manual(s):
235-105-110 System Maintenance Requirements and Tools
CLR:IODRV

**Software Release:** 5E14 and later  
**Command Group:** AM  
**Application:** 5,3B  
**Type:** Input

1. **PURPOSE**

Requests that option setting be allowed in the input/output processor (IOP) driver to suppress IOP driver messages.

**NOTE:** Entering this input message without the options turns off all severity levels, handler IDs and classes, but leaves the MSGSAVE flag as is.

2. **FORMAT**

CLR:IODRV[:LVL=a [&a [&a]]],ID=b [&b [&b ...]],CLASS=[&c [&c ...]][,MSGSAVE];

3. **EXPLANATION OF MESSAGE**

**MSGSAVE**  
= IOP error messages will not be saved in the IODRVLOG logfile.

**a**  
= Severity level, where one is the most severe setting and three is the least severe.

**b**  
= Administrative module (AM) handler identification. Valid value(s):

- **ALL** = Turns on all IDs.
- **APH** = Application protocol handler.
- **APPL1-APPL5** = Reserved for application handlers.
- **CIH** = End user interface handler.
- **DUIH** = Direct user interface handler.
- **IOP** = Input/output driver.
- **MAINT** = Maintenance handler.
- **MTH** = Magnetic tape handler.
- **NPH** = Network protocol handler.
- **SCSDH** = Scanner and signal distributor handler.
- **SDLH** = Synchronous data link handler.
- **SPH** = Session protocol handler.
- **TPH** = Transport protocol handler.

**c**  
= 32 classes available, but none are assigned.

4. **SYSTEM RESPONSE**

**NG**  
= No good. Conflict with system status.

**PF**  
= Printout follows. Followed by the CLR:IODRV output message.

5. **REFERENCES**

Input Message(s):
OP : IODRV  
SET : IODRV  

Output Message(s):  
CLR : IODRV  
OP : IODRV
CLR:IOMEM

Software Release: 5E14 and later
Command Group: N/A
Application: 5,3B
Type: Input

1. PURPOSE

Release a file from the input/output drivers cache memory. This is used during the installation of a new version of a file that could have been cached in the memory of the IODRV. Upon successful completion, the next time the file is needed by the IODRV, the file will be read from the disk.

2. FORMAT

CLR:IOMEM:FN "a"!

3. EXPLANATION OF MESSAGE

a full pathname that specifies the file to be released from the IODRV's cached memory.

4. SYSTEM RESPONSE

PF Printout follows. Followed by a CLR:IOMEM output message.

5. REFERENCES

Output Message(s):

CLR:IOMEM
CLR:ISOL-CM

Software Release: 5E14 and later
Command Group: SYSRCVY
Application: 5
Type: Input

1. PURPOSE

Requests that the communication module (CM) be re-synchronized with (unisolated from) the administrative module (AM). This request configures the message switch control unit (MSCU) so that it no longer operates independent of the AM and refreshes CM status maintained in the AM with the actual hardware status obtained from the CM. The re-synchronization is performed conditionally and major errors will cause the AM to attempt to re-isolate the CM.

A complete AM/CM initialization is required to recover from most duplex hardware failures.

This input message is only applicable to offices having CM2-vintage communication modules.

2. FORMAT

CLR:ISOL,CM;

3. EXPLANATION OF MESSAGE

No variables.

4. SYSTEM RESPONSE

NG = No good. The request has been denied. The message is valid, but could not be processed. Refer to the APP:CM-IM-REASON appendix in the Appendixes section of the Input Messages manual for a list of possible reasons for denying the request.

PF = Printout follows. Followed by the CLR:ISOL-CM output message.

5. REFERENCES

Input Message(s):

SET:ISOL-CM

Output Message(s):

CLR:ISOL-CM
SET:ISOL-CM

Input Appendix(es):

APP:CM-IM-REASON

Other Manual(s):
235-105-110 System Maintenance Requirements and Tools
235-105-220 Corrective Maintenance
235-105-250 System Recovery
CLR:ISOL-SM

Software Release: 5E14 and later
Command Group: SYSRCVY
Application: 5
Type: Input

1. PURPOSE

Takes one or more switching modules (SMs) out of isolation. If the SM is a remote switching module (RSM), then the associated control-carrying host digital facility interfaces (HDFIs) at the host switching module (HSM) will also be enabled.

2. FORMAT

CLR:ISOL,SM=a[&&b];

3. EXPLANATION OF MESSAGE

a = SM number, or lower limit of a range of SM number.
b = Upper limit of a range of SM number.

4. SYSTEM RESPONSE

NG = No good. The message was invalid.
PF = Printout follows. Followed by the CLR:ISOL-SM output message.

5. REFERENCES

Input Message(s):

SET:ISOL-SM

Output Message(s):

CLR:ISOL-SM
CLR:ISUP

Software Release: 5E14 and later
Command Group: CCS
Application: 5
Type: Input

1. PURPOSE

Requests that the trapping and printing of the integrated services digital network (ISDN) user part (ISUP) events be turned off. These events will be reported in the REPT:ISUP output message.

2. FORMAT

CLR:ISUP=ATPUUI;

3. EXPLANATION OF MESSAGE

No variables.

NOTE: Refer to the Acronym section of the Input Messages manual for the full expansion of acronyms shown in the format.

4. SYSTEM RESPONSE

OK = Good. The request was received and the trap was deactivated.

5. REFERENCES

Input Message(s):

OP:ST-ISUP
SET:ISUP

Output Message(s):

OP:ST-ISUP
REPT:ISUP

Other Manual(s):
235-070-100 Administration and Engineering Guidelines
CLR:LAMPS

Software Release: 5E14 and later
Command Group: ALARM
Application: 5
Type: Input

1. PURPOSE

Requests that exit pilot lamps (alarms) be extinguished.

2. FORMAT

CLR:LAMPS;

3. EXPLANATION OF MESSAGE

No variables.

4. SYSTEM RESPONSE

PP = Printout follows.

5. REFERENCES

Output Message(s):

CLR:LAMPS
REPT:ALM
CLR:LIB

Software Release: 5E14 and later
Command Group: ADMIN
Application: 5
Type: Input

1. PURPOSE

Clears a library program from the scratch area in the switching module (SM), and another team to use the SM for library program testing. This input message will not clear a running library program.

2. FORMAT

CLR:LIB:TEAM=a[,AM][{,SM=b|,SM=c&d}];

3. EXPLANATION OF MESSAGE

a = The team number to which this input message applies. This number is specified in the LOAD:LIB input message, and is used so that more than one person may test at the same time, using different team numbers.

b = SMs that this message should be directed to. The team specified must have a library program running in the SM(s) listed. There can be up to five SM numbers listed. A range could be used instead, as indicated.

c = First SM in the range 'c' to 'd'.

d = Last SM in the range 'c' to 'd'.

NOTE: If neither the AM or any SMs are specified, the CLR:LIB message is sent to the AM and all SMs with clients loaded under the same team as that specified.

4. SYSTEM RESPONSE

NG = No good. Either the team number or SM number(s) is illegal. SMs that have not initialized cannot be sent messages.

PF = Printout follows. Message has been sent to the SMs/AM or team specified.

5. REFERENCES

Input Message(s):
CLR:LIB
LOAD:LIB
CLR:M5-A

**Software Release:** 5E14 only

**Command Group:** NMOC

**Application:** 5

**Type:** Input

1. **PURPOSE**

Requests that a package be deleted from the set of five-minute (M5) surveillance data packages for the on-site network management channel.

2. **FORMAT**

CLR:M5,PKG=a;

3. **EXPLANATION OF MESSAGE**

```
a = Package. Valid value(s):
   ASPTF = Advanced services platform toll free counts.
   BNP = Basic number portability measurements.
   CCS = Common channel signaling (CCS) general service measurements.
   CCSP = CCS special service measurements.
   CGAP = Code control.
   CLCT = Network management control counts.
   CLDIR = Call direction.
   DLYR = Delayed readiness.
   EON5 = End office nodal phase 5.
   GETSHPC = Government emergency telecommunications service high probability of call completion.
   HPCTG = High probability of call completion trunk group.
   IECSTG = Inter-exchange carrier shared trunk group counts.
   IMA = Additional ineffective machine attempts.
   LN = Leased network action point.
   LNCU = Leased network office-wide measurements for critical users.
   LNNODE = Leased network node-to-node measurements.
   MLNC = Failure to match and no circuit.
   NS = Number services.
   OVRLD = Overload or congestion.
   RRC = Manual reroute trunk group controls.
   SDN = Action control point for software defined networks.
   SVC = Critical service circuits.
   TGFLAG = Trunk group flags.
   TGMEAS = Basic trunk group.
   WBTGMEAS = Wideband trunk group.
```

4. **SYSTEM RESPONSE**

```
NG = No good. Valid value(s):
   - INVALID REQUEST = The request has been denied. This office is not equipped to process the
request entered.

PF = Printout follows. Followed by the CLR:M5 output message.

RL = Retry later. Valid value(s):
- RESOURCE SHORTAGE = The necessary resources are not available.

5. REFERENCES

Input Message(s):

OP : M5
OP : M5PKG
SET : M5

Output Message(s):

CLR : M5

Other Manual(s):
235-190-115 Local and Toll System Features

MCC Display Page(s):

130 (NM EXCEPTION)
109 (OVERLOAD)
CLR:M5-B

Software Release: 5E15 - 5E16(1)
Command Group: NMOC
Application: 5
Type: Input

1. PURPOSE

Requests that a package be deleted from the set of five-minute (M5) surveillance data packages for the on-site network management channel.

2. FORMAT

CLR:M5,PKG=a;

3. EXPLANATION OF MESSAGE

a = Package. Valid value(s):
ASPTF = Advanced services platform toll free counts.
BICCMEAS = Bearer independent call control measurements.
BNP = Basic number portability measurements.
CCS = Common channel signaling (CCS) general service measurements.
CCSP = CCS special service measurements.
CGAP = Code control.
CLCT = Network management control counts.
CLDIR = Call direction.
DLYR = Delayed readiness.
EON5 = End office nodal phase 5.
GETSHPC = Government emergency telecommunications service high probability of call completion.
HPCBICC = High probability of call completion BICC group.
HPCTG = High probability of call completion trunk group.
IECSST = Inter-exchange carrier start signal timeout counts.
IECSTG = Inter-exchange carrier shared trunk group counts.
IMA = Additional ineffective machine attempts.
LN = Leased network action point.
LNCU = Leased network office-wide measurements for critical users.
LNNODE = Leased network node-to-node measurements.
MLNC = Failure to match and no circuit.
NS = Number services.
OVRLD = Overload or congestion.
RRC = Manual reroute trunk group controls.
SDN = Action control point for software defined networks.
SVC = Critical service circuits.
TGFLAG = Trunk group flags.
TGMEAS = Basic trunk group.
WBTGMEAS = Wideband trunk group.

4. SYSTEM RESPONSE
NG = No good. May also include:
- **INVALID REQUEST** = The request has been denied. This office is not equipped to process the request entered.

PF = Printout follows. Followed by the CLR:M5 output message.

RL = Retry later. May also include:
- **RESOURCE SHORTAGE** = The necessary resources are not available.

5. REFERENCES

Input Message(s):

- OP:M5
- OP:M5PKG
- SET:M5

Output Message(s):

- CLR:M5

Other Manual(s):
235-190-115 *Local and Toll System Features*

MCC Display Page(s):

- 130 (NM EXCEPTION)
- 109 (OVERLOAD)
CLR:M5-C

Software Release: 5E16(2) and later
Command Group: NMOC
Application: 5
Type: Input

1. PURPOSE

Requests that a package be deleted from the set of five-minute (M5) surveillance data packages for the on-site network management channel.

2. FORMAT

CLR:M5,PKG=a;

3. EXPLANATION OF MESSAGE

a = Package. Valid value(s):
   ASPTF = Advanced services platform toll free counts.
   BICCMEMAS = Bearer independent call control measurements.
   BNP = Basic number portability measurements.
   CCS = Common channel signaling (CCS) general service measurements.
   CCSP = CCS special service measurements.
   CGAP = Code control.
   CLCT = Network management control counts.
   CLDIR = Call direction.
   CMIX = Call mix.
   DLYR = Delayed readiness.
   EON5 = End office nodal phase 5.
   GETSHPC = Government emergency telecommunications service high probability of call completion.
   HPCBICC = High probability of call completion BICC group.
   HPCTG = High probability of call completion trunk group.
   HTRDDC = Hard to reach measurements.
   ICMP = Internet protocol/internet control message protocol (IP/ICMP) measurements.
   IECSST = Inter-exchange carrier start signal timeout counts.
   IECSTG = Inter-exchange carrier shared trunk group counts.
   IMA = Additional ineffective machine attempts.
   LN = Leased network action point.
   LNCU = Leased network office-wide measurements for critical users.
   LNNODE = Leased network node-to-node measurements.
   MLNC = Failure to match and no circuit.
   NS = Number services.
   OVRLD = Overload or congestion.
   PKTGRP = Packet group measurements.
   RRC = Manual reroute trunk group controls.
   SCTP = Stream control transmission protocol measurements.
   SDN = Action control point for software defined networks.
   SIPT = Session initiated protocol for telephony measurements.
   SL = Signaling link.
   SVC = Critical service circuits.
   TGFLAG = Trunk group flags.
TGMEAS = Basic trunk group.
WBTGMEAS = Wideband trunk group.

4. SYSTEM RESPONSE

NG = No good. May also include:
   - INVALID REQUEST = The request has been denied. This office is not equipped to process the request entered.

PF = Printout follows. Followed by the CLR:M5 output message.

RL = Retry later. May also include:
   - RESOURCE SHORTAGE = The necessary resources are not available.

5. REFERENCES

Input Message(s):

   OP : M5
   OP : M5PKG
   SET : M5

Output Message(s):

   CLR : M5

Other Manual(s):

   235-190-115 Local and Toll System Features

MCC Display Page(s):

   130 NM EXCEPTION
   109 OVERLOAD
CLR:MCTSI

**Software Release:** 5E14 and later  
**Command Group:** SM  
**Application:** 5  
**Type:** Input

1. **PURPOSE**

Clears the forced condition from the module controller time-slot interchange (MCTSI) in the switching modules (SM) specified. This message uses administrative module intervention (AMI) to access the SM.

2. **FORMAT**

```
CLR:MCTSI=a[&&b],FRC;
```

3. **EXPLANATION OF MESSAGE**

- `a` = SM number or lower limit for a range of SM number.
- `b` = Upper limit for a range of SM number.

4. **SYSTEM RESPONSE**

```
PF = Printout follows. The CLR:MCTSI output message follows.
```

5. **REFERENCES**

**Output Message(s):**

```
CLR:MCTSI
```

**MCC Display Page(s):**

- (INHIBIT AND RECOVERY CONTROL)
- (MCTSI/DLI)
- (MCTSI/RLI)
1. PURPOSE

Requests to clear all brevity control message discard (MGDSC) counts and throttling message discard counts for administrative module (AM) operational kernel process, a communication module processor (CMP), or a switching module (SM). The brevity control message discard count contains total number of messages being discarded due to brevity control for the day or since the last CLR:MGDSC input message has been entered. The message throttling discard count contains total number of messages being discarded due to queue overflow for the day or since the last CLR:MGDSC input message has been entered. The discard count for each message class is also automatically reset to zero daily at 23:58:00, two minutes before midnight.

2. FORMAT

CLR:MGDSC, {AM|CMP=a|SM=b};

3. EXPLANATION OF MESSAGE

a = CMP number.

b = SM number.

4. SYSTEM RESPONSE

NG = No good. May also include:
  - CMP IS NOT AVAILABLE = The request cannot be executed now due to the requested CMP is either unavailable or not equipped.
  - SM IS NOT AVAILABLE = The request cannot be executed now due to the requested SM is either unavailable or not equipped.

OK = Good. Request was accepted. All message discard counts have been reset to zero.

5. REFERENCES

Input Message(s):

   OP : MGDSC

Output Message(s):

   OP : MGDSC
CLR:MHD-MAEC

Software Release: 5E14 and later
Command Group: FHADM
Application: 5,3B
Type: Input

1. PURPOSE

To clear a given moving head disk's (MHD's) media access error counter (MAEC). The MAEC for a given MHD is set to zero.

A MAEC counts all errors which could be classified as bad disk blocks (media defects). If upon investigation, some or all of these errors are attributed to specific bad disk blocks, the bad disk blocks should be mapped out using the LOAD:MHD input message, followed by the INIT:MHD input message. This procedure will reset the specified MHD's MAEC back to zero.

If upon investigation, none of these errors are attributed to media defects, then mapping bad blocks and formatting the disk is not necessary. In this case, the CLR:MHD-MAEC input message is used to reset the specified MHD's MAEC back to zero.

2. FORMAT

CLR:MHD=a:MAEC;

3. EXPLANATION OF MESSAGE

a = MHD member number.

4. SYSTEM RESPONSE

PF = Followed by the CLR:MHD-MAEC output message.

5. REFERENCES

Input Message(s):

INIT:MHD
LOAD:MHD
VFY:MHD

Output Message(s):

CLR:MHD-MAEC
REPT:DKDRV

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CLR:MHTR

Software Release: 5E16(2) and later
Command Group: NMOC
Application: 5
Type: Input

1. PURPOSE

Requests clearance of manual hard-to-reach (MHTR) destinations.
Format 1 clears all the destinations from the HTR list.
Format 2 clears the destination specified by code and/or carrier.

2. FORMAT

[1] CLR:MHTR;


3. EXPLANATION OF MESSAGE

a = Destination code (1 to 10 digits). (Valid character set 0-9);
b = The feature group D carrier (0 - 9999).

4. SYSTEM RESPONSE

NG = Not good. Valid value(s):
   - FEATURE NOT AVAILABLE = The hard-to-reach feature is not available

PF = Printout follows. Followed by the CLR:MHTR output message.

RL = Retry later. Valid value(s):
   - RESOURCE SHORTAGE = The necessary resources are not available.

5. REFERENCES

Input Message(s):
ASGN:MHTR
OP:HTR

Output Message(s):
CLR:MHTR

Other Manual(s):
235-190-115 Local and Toll System Features
MCC Display Page(s):
130 NM EXCEPTION
CLR:MINMODE-CNI

Software Release: 5E14 and later
Command Group: SYSRCVY
Application: 5
Type: Input

1. PURPOSE

Removes (clears) the common network interface (CNI) system from min-mode. This message cancels the effect of the SET:MINMODE-CNI input message. When the CNI system is taken out of minmode, a CNI full initialization (FI) (level 4) will be performed.

NOTE: The CNI system can be taken out of min mode only if the administrative module (AM) is not in min mode.

2. FORMAT

CLR:MINMODE,CNI,LVL4;

3. EXPLANATION OF MESSAGE

No variables.

4. SYSTEM RESPONSE

NG = No good. The request was unsuccessful because:
   - The office is not equipped with CNI.
   - The AM is in min mode.
   - Software level 5 (S5) initialization of CCSINIT failed.
   - Some internal error occurred.

PF = Printout follows. The message has been accepted and an output message will follow.

5. REFERENCES

Input Message(s):

   SET:MINMODE-CNI

Output Message(s):

   INIT:CNI-LVL

MCC Display Page(s):

   (CNI FRAME AND CCS LINK STATUS DISPLAY PAGE)
CLR:MINMODE-SM

Software Release: 5E14 and later
Command Group: SYSRCVY
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Clears the selected switching modules (SMs) from minimum mode (minmode) by resetting the appropriate SM inhibits and performing a full initialization. The SM inhibits which are reset as a result of this message are minmode, software error checks, hardware error checks, application routine exercises, and application routine audits. This message cancels the effect of the SET:MINMODE-SM input message.

WARNING: This message will cause all selected modules to initialize even if the modules were not in minmode prior to the initialization.

2. FORMAT


3. EXPLANATION OF MESSAGE

Note: Refer to the Acronym section of the Input Messages manual for the full expansion of acronyms shown in the format.

BPUMP = Request a full SM pump using the backup pump function (SI or FI). This pump uses the control time slots (no special hardware) and may succeed when a normal pump fails; however, it is at least 16 times slower than the normal pump. This option should be used on a pump peripheral controller (PPC) duplex failure of the administrative module (AM) peripheral hardware or failure of the bootstrapper hardware in the SM.

FI = Full initialization (clear all stable calls).

NPUMP = Request a full SM pump using the normal pump function (SI or FI).

PUMP = Request a full SM pump at the requested level (SI or FI). A normal pump (NPUMP) will be used unless a failure occurs, in which case a backup pump (BPUMP) will be selected automatically. This is the recommended option to request a full pump.

a = SM number, or lower limit of a range of SM number.

b = Upper limit of the range of SM number.

4. SYSTEM RESPONSE

IP = In progress. The message was accepted and the request is in progress.

NG = No good. The message was not accepted because:
- An illegal SM number or range combination was specified.
- An illegal initialization level was specified.
- An illegal option was specified; only PUMP, NPUMP, or BPUMP are allowed, and only with an FI.

5. REFERENCES

Input Message(s):

SET:MINMODE–SM
CLR:MON

Software Release: 5E14 and later
Command Group: SFTUTIL
Application: 5
Type: Input

1. PURPOSE

Requests that the specified operating system for distributed switching (OSDS) monitor data collection areas be set to zero.

2. FORMAT

CLR:MON, {AM|SM=a | CMP=b-c }, {CTL|PTA|DPA|ALL};

3. EXPLANATION OF MESSAGE

NOTE: Refer to the Acronym section of the Input Messages manual for the full expansion of acronyms shown in the format.

ALL = Set the entire monitor buffer area to zero.
CTL = Set the control data area of the monitor buffer to zero.
DSP = Set the dispatch area of the monitor buffer to zero.
PTA = Set the count and time data area of the monitor buffer to zero.
a = Switching module (SM) number.
b = Message switch side.
c = Communications module processor (CMP) number.

4. SYSTEM RESPONSE

NG = No good. Error in format.
PF = Printout follows.
RL = Retry later. System resource shortage.

5. REFERENCES

None.
CLR:MWI

Software Release: 5E14 and later
Command Group: TRKLN
Application: 5
Type: Input

1. PURPOSE

Requests that a Message Service System (MSS) message waiting indicator (MWI) be deactivated for a given seven-digit directory number (DN).

2. FORMAT

CLR:MWI,DN=a[,FNAME=b];

3. EXPLANATION OF MESSAGE

a = The seven-digit DN to be validated.

b = The MSS feature on the seven-digit DN. If multiple MSS features are assigned to this DN, the feature must be specified to avoid incorrect feature deactivation.

4. SYSTEM RESPONSE

NG = No good. May also include:
   - MUST ENTER A 7 DIGIT DN = The DN field has more or less than seven digits in it. The DN field must contain digits only.

RL = Retry later. The message was not accepted because of a temporary lack of available resources.

PF = Printout follows. The DN validation request was accepted and the CLR:MWI output message follows.

5. REFERENCES

Output Message(s):

CLR:MWI
CLR:NMNODES

**Software Release:** 5E14 and later  
**Command Group:** NMOC  
**Application:** 5  
**Type:** Input

1. **PURPOSE**

Requests that node(s) be removed from the five-minute network management node schedule (NMNODES). A node is identified by a common language location identifier (CLLI) code and the voice/data indicator.

2. **FORMAT**

CLR:NMNODES[,NODES=a-b[-a-b][-a-b][-a-b]];  

3. **EXPLANATION OF MESSAGE**

a  = CLLI code. If no node identifier has been entered the whole node schedule (NMNODES) will be cleared.

b  = Voice/data indicator. Valid value(s):

D  = Data indicator.

V  = Voice indicator.

4. **SYSTEM RESPONSE**

PF  = Printout follows. Followed by the CLR:NMNODES output message.

RL  = Retry later. May also include:

- **RESOURCE SHORTAGE** = The request could not be accepted because the necessary resources are not available.

5. **REFERENCES**

Input Message(s):

ASGN:NMNODES  
OP:NMNODES  

Output Message(s):

CLR:NMNODES  

Other Manual(s):

235-070-100  **Administration and Engineering Guidelines**  
235-190-115  **Local and Toll System Features**

MCC Display Page(s):
130 (NM EXCEPTION)
CLR:NMSCH

Software Release: 5E14 and later
Command Group: NMOC
Application: 5
Type: Input

1. PURPOSE

Requests that trunk groups be removed from the network management (NM) schedule (SCH). The NM schedule is a list of trunk groups of interest to network managers.

2. FORMAT

CLR:NMSCH[,TG-a[-a][-a][-a][-a][-a][-a][-a][-a]];

3. EXPLANATION OF MESSAGE

a = Valid trunk group number.

4. SYSTEM RESPONSE

PF = Printout follows. Followed by the CLR:NMSCH output message.

RL = Retry later. May also include:
- RESOURCE SHORTAGE = The request cannot be executed now due to unavailable system resources.

5. REFERENCES

Input Message(s):

ASGN:NMSCH
OP : NMSCH

Output Message(s):

CLR:NMSCH

Other Manual(s):
235-100-125 System Description

MCC Display Page(s):

130 (NM EXCEPTION)
109 (OVERLOAD)
CLR:OC3

Software Release: 5E16(1) and later
Command Group: SM
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Requests that the manually set automatic protection switch (APS) state of an optical carrier - level 3 (OC3) facility be cleared.

WARNING: If clearing of the APS state results in a switch, transient errors on the facilities will occur.

2. FORMAT

CLR:OC3=a-b-c-d;

3. EXPLANATION OF MESSAGE

a = Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

b = Optical interface unit (OIU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

c = Protection group (PG) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

d = OC3 number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

NG = No good. The message form is valid, but the request conflicts with current status.

PF = Printout follows. Followed by the CLR:OC3 output message.

RL = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

Input Message(s):

SET:OC3

Output Message(s):

CLR:OC3
Input Appendix(es):

APP: RANGES

Other Manual(s):
235-105-110 System Maintenance Requirements and Tools
235-105-220 Corrective Maintenance

MCC Display Page(s):
1491 OIU OC3 STATUS
CLR:OC3C
Software Release: 5E16(2) and later
Command Group: SM
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE
Requests that the manually set automatic protection switch (APS) state of an optical carrier - level 3 concatenated (OC3C) facility be cleared.

WARNING: If clearing of the APS state results in a switch, transient errors on the facilities will occur.

2. FORMAT
CLR:OC3C=a-b-c-d;

3. EXPLANATION OF MESSAGE

a = Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

b = Optical interface unit (OIU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

c = Protection group (PG) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

d = OC3C number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

NG = No good. The message form is valid, but the request conflicts with current status.

PF = Printout follows. Followed by the CLR:OC3C output message.

RL = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES
Input Message(s):

SET:OC3C

Output Message(s):

CLR:OC3C
Input Appendix(es):

APP : RANGES

Other Manual(s):
235-105-110  System Maintenance Requirements and Tools
235-105-220  Corrective Maintenance

MCC Display Page(s):
1491  OIU OC3C STATUS
CLR:ODDBKUP

Software Release: 5E14 and later
Command Group: ODD
Application: 5
Type: Input

1. PURPOSE

Clears the office-dependent data (ODD) backup schedule set by a previous BKUP:ODD message. The ODD backup scheduled request will be cleared only if the administrative module (AM), communications module processor (CMP), and/or switching module (SM) non-redundant ODD (NRODD) range and/or SM redundant ODD (RODD) specified in the input request matches exactly those in the scheduled request(s). For example, if the scheduled request is nrodd=2&&25, then the clear request has to be nrodd=2&&25. The default is to clear all the scheduled requests.

2. FORMAT

CLR:ODDBKUP[,AM][,CMP=a[&&b]][,NRODD=c[&&d]][,RODD=c];

3. EXPLANATION OF MESSAGE

NOTE: Refer to the Acronym section of the Input Messages manual for the full expansion of acronyms shown in the format.

a = CMP number or the lower limit of a range of CMP numbers.
b = Upper limit of range of CMP numbers.
c = Switching module (SM) number or the lower limit of a range of SM numbers.
d = Upper limit of a range of SM numbers.

4. SYSTEM RESPONSE

NG = No good. May also include:
- INVALID CMP RANGE = No good. The input request is not valid because of an invalid CMP range.
- INVALID SM RANGE = The input request is not valid because of an invalid SM range.

PF = Printout follows. The request was accepted. The CLR:ODDBKUP output message follows.

5. REFERENCES

Input Message(s):

ABT:ODDBKUP
BKUP:ODD
OP:BKUPSTAT
STP:ODDEVOL

Output Message(s):
CLR: ODDBKUP

Other Manual(s):
235-105-210  *Routine Operations and Maintenance.*
CLR:OP-ALM-ALL

Software Release: 5E14 and later
Command Group: ALARM
Application: 5
Type: Input

1. PURPOSE

Requests that the data delivery bits for the OP:ALM-ALL input message feature be cleared, unconditionally. This does not clear any alarms. Use only when it is suspected that the data delivery bits are hung up preventing the use of the OP:ALM-ALL, OP:CGA, and OP:RT-ALM input messages.

NOTE: If this message is requested while a valid instance of OP:ALM-ALL is still in progress, the first instance of OP:ALM-ALL will abort and output a REPT:PTRACE message.

2. FORMAT

CLR:OP:ALM,ALL;

3. EXPLANATION OF MESSAGE

No variables.

4. SYSTEM RESPONSE

OK = Good. The request has been accepted.

RL = Retry later. May also include:
   - ALREADY IN PROGRESS = No OP ALM ALL MANUAL TERMINATION message prints.
   - OP ALM ALL CURRENTLY IN PROGRESS

5. REFERENCES

Input Message(s):

OP:ALM
OP:CFGSTAT
OP:CGA
OP:MSUSP
OP:RT-ALM-ALL
STP:OP-ALM-ALL

Output Message(s):

OP:ALM-ALL
OP:ALM-RBPSC
OP:ALM-RIBMSC
OP:ALM-RISLUSC
OP:CFGSTAT-CM
OP:CGA
OP:MSUSP
OP:RT-ALARM
REPT: PTRACE

Other Manual(s):
363-200-101  DCLU Integrated SLC® Carrier System
235-105-110  System Maintenance Requirements and Tools
235-105-210  Routine Operations and Maintenance
235-105-220  Corrective Maintenance
235-105-250  System Recovery
235-190-115  Local and Toll System Features

MCC Display Page(s):
105/106 (BLDG/POWER & ALARM CNTRLs)
115 (COMMUNICATION MODULE SUMMARY)
116 (MISCELLANEOUS)
118 (CNI FRAME AND CCS LINK STATUS)
119 (MISCELLANEOUS ALARMS)
1010,X (SM X STATUS)
CLR:PB
Software Release: 5E14 and later
Command Group: TRKLN
Application: 5
Type: Input

1. PURPOSE
Requests that the position busy (PB) indicator be cleared at certain trunk line work stations (TLWSs) or centralized trunk test units (CTTUs) assigned to receive incoming 101 test line calls. The 101 test line calls can now terminate at this trunk work station (TWS) talk and monitor (T&M) phone.

2. FORMAT
CLR:PB[, ID=a];

3. EXPLANATION OF MESSAGE
a = ID of the TLWS or CTTU at which position busy indicator is to be cleared. Valid value(s):
c = CTTU.
l = Local.
r = Remote.

If no ID is specified, all LOCAL positions are set to the available state.

4. SYSTEM RESPONSE
NA = No acknowledgement. The request has not been acknowledged. It is probable the request has been lost.
PF = Printout follows. The request has been accepted. The CLR:PB output message follows.
RL = Retry later. The request has been denied due to system overload.

5. REFERENCES
Input Message(s):
SET:PB
OP:PB

Output Message(s):
CLR:PB
OP:PB

Output Appendix(es):
APP:TLWS
Other Manual(s):
235-100-125  Switch System Description
235-105-110  System Maintenance Requirements and Tools
235-105-220  Corrective Maintenance

RC/V View(s):

8.1 (OFFICE PARAMETERS (MISCELLANEOUS))
14.0 (VERIFY 101 TEST LINE)
CLR:PERPH-SM
Software Release: 5E14 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE
Requests that the verbose status in a single switching module (SM) or a range of SMs be cleared. When the verbose status is CLEAR, peripheral fault recovery (PFR) will only output messages that indicate that a peripheral (PERPH) error has caused recovery actions on a circuit. When the verbose status is SET, PFR will output transient peripheral error messages which indicate that no recovery action has occurred (that is, "ANALYSIS ONLY"). Output messages may be logged or printed depending on the message class for each unit type.

2. FORMAT
CLR:PERPH,SM=a[&&b],VERBOSE;

3. EXPLANATION OF MESSAGE
   a = SM number or lower limit of range of SM number.
   b = Upper limit of range of SM number.

4. SYSTEM RESPONSE
   NG = No good. May also include:
       - SM DOES NOT EXIST = The request has been denied, SM number does not match any equipped SM.
   OK = Good. The input message has been completed.
   RL = Retry later. System resource shortage.

5. REFERENCES
Input Message(s):
   OP:LPS
   SET:PERPH-SM
CLR:PSALNK

**Software Release:** 5E16(2) and later  
**Command Group:** MAINT  
**Application:** 5  
**Type:** Input

1. **PURPOSE**

Requests that the manually set automatic protection switch (APS) state of a packet switch unit (PSU) asynchronous transfer mode (ATM) link (PSALNK) be cleared.

2. **FORMAT**

CLR:PSALNK=a-b-c;

3. **EXPLANATION OF MESSAGE**

a = Switching module (SM). Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

b = PSU number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

C = ATM link number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. **SYSTEM RESPONSE**

NG = No good. The request has been denied. The message is valid but the request conflicts with current equipage or status. Refer to the APP:SYS-RESPONSE appendix in the Appendixes section of the Input Messages manual.

PF = Printout follows. Followed by the CLR:PSALNK output message.

RL = Retry later. The request cannot be executed now due to unavailable system resources.

5. **REFERENCES**

**Input Message(s):**

SET:PSALNK  
SW:PSALNK

**Input Appendix(es):**

APP:RANGES  
APP:SYS-RESPONSE

**Output Message(s):**

CLR:PSALNK

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MCC Display Page(s):
1187, y,x       PSU/ATM LINKS STATUS (where y=PSU number and x=SM number)
1. PURPOSE

Requests that the manually set automatic protection switch (APS) state of the packet switch unit (PSU) link (PSLNK) be cleared.

A PSU link is uniquely identified by the community addresses (CAs) of two PSUs that this PSU link connects. The near end PSU CA can be entered directly in the input message line or can be translated by the switch from the entered PSU equipment number. However, the far end CA cannot be specified by the PSU equipment number and must always be entered as PSU CA.

NOTE: For gateway protocol handlers (PH) the only valid input message format is #4. Other formats will not yield the expected results.

2. FORMAT

[1] CLR:PSLNK=a-b;
[2] CLR:PSLNK,PSUCA=a,FARCA=b;
[3] CLR:PSLNK,PSU=c-0,FARCA=b;
[4] CLR:PSLNK,PSUCA=a;

3. EXPLANATION OF MESSAGE

a = Near PSU community address of the PSU link.
b = Far PSU community address of the PSU link.

The far end CA must be zero if the PSU link is connected to an asynchronous transfer mode (ATM) switch in a point-to-multipoint configuration network.
c = Switching module (SM) number.

4. SYSTEM RESPONSE

NG = No good. The request has been denied. The message is valid but the request conflicts with current equipage or status.
P = Printout follows. Followed by the CLR:PSLNK output message.
RL = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

Input Message(s):
SET:PSLNK
SW:PSLNK

Output Message(s):
CLR:PSLNK

MCC Display Page(s):
PSU LINKS STATUS
CLR:PSLNK-B

Software Release: 5E16(1) and later
Command Group: MAINT
Application: 5
Type: Input

1. PURPOSE

Requests that the manually set automatic protection switch (APS) state of the packet switch unit (PSU) link (PSLNK) be cleared.

A PSU link is uniquely identified by the community addresses (CAs) of two PSUs that this PSU link connects. The near end PSU CA can be entered directly in the input message line or can be translated by the switch from the entered PSU equipment number. However, the far end CA can not be specified by the PSU equipment number and must always be entered as PSU CA.

2. FORMAT

[1] CLR:PSLNK=a-b;

[2] CLR:PSLNK,PSUCA=a,FARCA=b;

[3] CLR:PSLNK,PSU=c-d,FARCA=b;

3. EXPLANATION OF MESSAGE

a = Near PSU community address of the PSU link. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

b = Far PSU community address of the PSU link. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

NOTE: The far end CA must be zero if the PSU link is connected to an asynchronous transfer mode (ATM) switch in a point-to-multipoint configuration network.

c = Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

d = PSU number Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

NG = No good. The request has been denied. The message is valid but the request conflicts with current equipage or status. Refer to the APP:SYS-RESPONSE appendix in the Appendixes section of this Input Messages manual.

PF = Printout follows. Followed by the CLR:PSLNK output message.

RL = Retry later. The request cannot be executed now due to unavailable system resources.
5. REFERENCES

Input Message(s):

SET: PSLNK
SW: PSLNK

Output Message(s):

CLR: PSLNK

Input Appendix(es):

APP: RANGES
APP: SYS-RESPONSE

MCC Display Page(s):
1187,y PSU LINKS STATUS where y=PSU number
CLR:PSUCOM-A

Software Release: 5E14 - 5E15
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Clears the forced condition from the Packet Switch Unit (PSUCOM) specified. This command is only valid if the requested PSU is marked a Critical PSU in recent Change.

2. FORMAT

CLR:PSUCOM=a-b,FRC;

3. EXPLANATION OF MESSAGE

a = Switching module (SM) number.
b = PSUCOM unit number (0).
FRC = Forced Active state.

4. SYSTEM RESPONSE

NG No good. May also include:
  - FORCE NOT ALLOWED ON NON-CRITICAL PSU = The requested PSUCOM is not marked a Critical PSU in Recent Change.
  - PSU IS NOT FORCED = The requested PSUCOM is not forced.

PF = Printout follows. The CLR:PSUCOM output message follows.

5. REFERENCES

Output Message(s):

CLR:PSUCOM

MCC Display Page(s):

1186 (PSU NETWORK)
CLR:PSUCOM-B

Software Release: 5E16(1) and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Clears the forced condition from the packet switch unit (PSUCOM) specified.

2. FORMAT

CLR:PSUCOM=a-b,FRC;

3. EXPLANATION OF MESSAGE

a
  = Switching module (SM) number.

b
  = PSUCOM unit number.

FRC
  = Forced active state.

4. SYSTEM RESPONSE

NG
  = No good. May also include:
    - PSU IS NOT FORCED = The requested PSUCOM is not forced.

PF
  = Printout follows. Followed by the CLR:PSUCOM output message.

5. REFERENCES

Output Message(s):

CLR:PSUCOM

MCC Display Page(s):
1186,y    PSU NETWORK (where y=PSU number)
CLR:PTN

Software Release: 5E14 and later
Command Group: FHADM
Application: 5,3B
Type: Input

1. PURPOSE

Requests that partitions on a specified disk be cleared (initialized with zeroes). The partitions to be cleared are determined from a specfile (default /etc/clearspec). Both the disk specified and its mate should be active before this message is entered.

This input message will be used by the applications that have AMA partitions (on removable media disk packs) which need to be cleared whenever a disk copy is generated.

2. FORMAT

CLR:PTN:MHD=a[:SPECF="b"];

3. EXPLANATION OF MESSAGE

a = Identifies of disk unit to be initialized with zeroes.

b = Pathname of specification file containing list of partition names that will be initialized with zeroes. Default will be /etc/clearspec.

4. SYSTEM RESPONSE

NG = No good. Process not initiated.

PF = Printout follows.

5. REFERENCES

Output Message(s):

CLR:PTN
CLR:PUPAGE

**Software Release:** 5E14 and later
**Command Group:** NOCHK
**Application:** 5
**Type:** Input

1. **PURPOSE**

Requests that the software update installation page (BWM Installation) or program update (PU) maintenance page be cleared.

2. **FORMAT**

CLR:PUPAGE=HMa;

3. **EXPLANATION OF MESSAGE**

   a = Page definition. Valid value(s):
   95 = Program update maintenance page.
   96 = BWM installation page.

4. **SYSTEM RESPONSE**

   OK = Good. The message was accepted and the action was completed.

5. **REFERENCES**

MCC Display Page(s):

   1950 (PROGRAM UPDATE MAINTENANCE)
   1960 (BWM INSTALLATION)
CLR:RT-FAC
Software Release: 5E14 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE
Requests that a far end loop process (FELP) or a protection (PROT) configuration request be cleared for a particular digital signal level one (DS1) facility (FAC).

If the request to be cleared has not been set for the specified facility, this request will have no effect.

2. FORMAT
CLR:RT,FAC=a-b,{FELP|PROT[,UCL]};

3. EXPLANATION OF MESSAGE
FELP = Configure a DS1 FAC to the looped state at the RT (for example, a “virtual pinjack”).
PROT = Switch from the specified DS1 FAC to the protection line.
UCL = Unconditionally take FAC off PROT (only valid for TR303 RTs).
a = Site identification number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
b = RT DS1 FAC number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE
PF = Printout follows. The request was accepted. The CLR:RT-FAC output message follows.
NG = No good. The request has been denied. The message is valid but the request conflicts with current status.
RL = Retry later. The request cannot be executed now because the SM is isolated from the administrative module (AM).

5. REFERENCES
Input Message(s):
   INH:RT-FAC
   SET:RT-FAC

Output Message(s):
   CLR:RT-FAC
Input Appendix(es):

APP : RANGES

Other Manual(s):
235-105-220 Corrective Maintenance
235-105-110 System Maintenance Requirements and Tools

MCC Display Page(s):
187x (IDCU FACILITY)
188xyy (IDCU REMOTE TERMINAL)
CLR:RT-FACOFFN
Software Release: 5E14 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE
Requests the disabling of the option of having the switching module (SM) status indicator updated to off-normal (OFFN) when a remote terminal (RT) T1 is in an off-normal state. Specifically, it will not be updated to "RT PLS" (RT protection line switch) when a T1 facility (FAC) goes on protection, or to "CKT OOS" (circuit out-of-service) when a T1 facility goes OOS.

2. FORMAT
CLR:RT,FACOFFN;

3. EXPLANATION OF MESSAGE
No variables.

4. SYSTEM RESPONSE
OK = Good. The request was accepted and the requested action was completed.
RL = Retry later. The system failed to read a database global parameter.

5. REFERENCES
Input Message(s):
   SET:RT-FACOFFN
   OP:RT-FACOFFN

Output Message(s):
   OP:RT-FAC-OFF

Other Manual(s):
235-105-220 Corrective Maintenance
235-105-110 System Maintenance Requirements and Tools
CLR:RUTIL

Software Release: 5E14 and later
Command Group: SFTUTIL
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Clears all breakpoints in the specified common network interface (CNI) ring node.

WARNING: Incorrect use of this input message may interrupt operation of a node on the CNI ring or the whole CNI ring.

2. FORMAT

CLR:RUTIL=a-b, AP;

3. EXPLANATION OF MESSAGE

NOTE: Refer to the Acronym section of the Input Messages manual for the full expansion of acronyms shown in the format.

a = Group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

b = Member number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

PF = Printout follows. The CLR:RUTIL output message follows.

5. REFERENCES

Input Message(s):

ALW:RUTIL
ALW:RUTILFLAG
CLR:RUTILFLAG
DUMP:RUTIL
INH:RUTIL
INH:RUTILFLAG
LOAD:RUTIL
OP:RUTIL
OP:RUTILFLAG
WHEN:RUTIL

Output Message(s):
ALW: RUTIL
ALW: RUTILFLAG
CLR: RUTIL
CLR: RUTILFLAG
DUMP: RUTIL
INH: RUTIL
INH: RUTILFLAG
LOAD: RUTIL
OP: RUTIL
OP: RUTILFLAG
REPT: RUTIL
WHEN: RUTIL

Input Appendix(es):

APP: RANGES

Other Manual(s):
235-105-110 System Maintenance Requirements and Tools
CLR:RUTILFLAG

Software Release: 5E14 and later
Command Group: SFTUTIL
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Clears a specific breakpoint in the specified common network interface (CNI) ring node.

WARNING: Incorrect use of this input message may interrupt operation of a node on the CNI ring or the whole CNI ring.

2. FORMAT

CLR:RUTILFLAG=a-b,AP:BP=c;

3. EXPLANATION OF MESSAGE

NOTE: Refer to the Acronym section of the Input Messages manual for the full expansion of acronyms shown in the format.

a = Group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

b = Member number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

c = Specific breakpoint to be cleared.

4. SYSTEM RESPONSE

PF = Printout follows. The CLR:RUTILFLAG output message follows.

5. REFERENCES

Input Message(s):

ALW:RUTIL
ALW:RUTILFLAG
CLR:RUTIL
DUMP:RUTIL
INH:RUTIL
INH:RUTILFLAG
LOAD:RUTIL
OP:RUTIL
OP:RUTILFLAG
WHEN:RUTIL
Output Message(s):

ALW: RUTIL
ALW: RUTILFLAG
CLR: RUTIL
CLR: RUTILFLAG
DUMP: RUTIL
INH: RUTIL
INH: RUTILFLAG
LOAD: RUTIL
OP: RUTIL
OP: RUTILFLAG
REPT: RUTIL
WHEN: RUTIL

Input Appendix(es):

APP: RANGES

Other Manual(s):
235-105-110  System Maintenance Requirements and Tools
CLR:SCMG

- **Software Release:** 5E15 and later
- **Command Group:** CCS
- **Application:** 5
- **Type:** Input

1. **PURPOSE**

Requests that the prohibited status of signaling connection control part (SSCP) Subsystems at a destination point code (DPC) be cleared.

2. **FORMAT**

CLR:SCMG,SM=a,DPC=b;

3. **EXPLANATION OF MESSAGE**

- **a** = Switching module (SM) number.
- **b** = DPC.

4. **SYSTEM RESPONSE**

- **NG** = No good. The message is not recognized. Repeat the request.
- **PF** = Printout follows. Followed by the CLR:SCMG output message.

5. **REFERENCES**

Output Message(s):

CLR:SCMG
CLR:SILC

Software Release: 5E14 and later
Command Group: NMOC
Application: 5
Type: Input

1. PURPOSE

Requests that a trunk group be removed from selective incoming load control (SILC) treatment with an option to clear the entire list.

2. FORMAT

CLR:SILC[,TG=a];

3. EXPLANATION OF MESSAGE

  a = Valid trunk group number. The default is all trunk groups on the SILC list.

4. SYSTEM RESPONSE

  PF = Printout follows. Followed by the CLR:SILC output message.

  RL = Retry later.
     - RESOURCE SHORTAGE = The necessary resources are not available.

5. REFERENCES

Input Message(s):

  ASGN:SILC
  OP:SILC

Output Message(s):

  CLR:SILC

Other Manual(s):

235-190-115  Local and Toll System Features

MCC Display Page(s):

  130 (NM EXCEPTION)
  109 (OVERLOAD)
CLR:SRST-DPC

Software Release: 5E14 and later
Command Group: CCS
Application: 5,CNI
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Clears the status of a route making it available, and stops the signaling route set test (SRST) for the route. This is used to reduce the amount of unnecessary signaling network management message traffic for primary or alternate routes.

WARNING: Use of this message may be service affecting.

2. FORMAT

[1] CLR:SRST:DPC=a-b[-c][:LS=d];
[2] CLR:SRST:DPC=a-e-f[-c][:LS=d];

3. EXPLANATION OF MESSAGE

a = Destination point code (DPC) network identifier. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

b = DPC network cluster identifier. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

c = DPC member identifier. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

d = Link set. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

e = Region identifier. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

f = Cluster identifier. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

NG = The message was not recognized. Repeat the request.

PF = Printout follows. The request was received and will be acted on. The CLR:SRST output message follows.

RL = Retry later. System resources are unavailable to execute this input message now.
5. REFERENCES

Output Message(s):

CLR: SRST

Input Appendix(es):

APP : RANGES
CLR:SSTR

- **Software Release**: 5E14 and later
- **Command Group**: NMOC
- **Application**: 5
- **Type**: Input

1. **PURPOSE**

Requests that a single service selective trunk reservation (SSTR) control be cleared on a specified trunk group.

2. **FORMAT**

CLR:SSTR,TG=a;

3. **EXPLANATION OF MESSAGE**

| a | = Trunk group (TG) number. |

4. **SYSTEM RESPONSE**

| PF | = Printout follows. Followed by the CLR:SSTR output message. |
| RL | = Retry later. May also include: |
|    | - RESOURCE SHORTAGE = The request could not be accepted because the necessary resources were not available. |

5. **REFERENCES**

- **Input Message(s):**
  - ASGN:SSTR
  - OP:SSTR

- **Output Message(s):**
  - CLR:SSTR

- **Other Manual(s):**
  - 235-190-115  *Local and Toll System Features*

- **MCC Display Page(s):**
  - 130 (NM EXCEPTION)
CLR:SSTROVRD

Software Release: 5E14 and later
Command Group: NMOC
Application: 5
Type: Input

1. PURPOSE
Requests that any service selective trunk reservation (SSTR) inhibit override that was set as the result of a SET:SSTROVRD input message be cleared and all SSTR per-trunk-group inhibits be restored to their original state.

2. FORMAT
CLR:SSTROVRD;

3. EXPLANATION OF MESSAGE
No variables.

4. SYSTEM RESPONSE
PF  = Printout follows. Followed by the CLR:SSTROVRD output message.
RL  = Retry later. May also include:
  - RESOURCE SHORTAGE = The request could not be accepted because the necessary resources are not available.

5. REFERENCES
Input Message(s):
SET:SSTROVRD
OP:SSTR

Output Message(s):
CLR:SSTROVRD

Other Manual(s):
235-190-115  Local and Toll System Features

MCC Display Page(s):
130 (NM EXCEPTION)
CLR:TGC
Software Release: 5E14 and later
Command Group: NMOC
Application: 5
Type: Input

1. PURPOSE
Requests that network management (NM) trunk group controls (TGCs) of a given control type be removed.

2. FORMAT
CLR:TGC[,TG=a],CNTL=b[,IRR=c];

3. EXPLANATION OF MESSAGE

   a = Trunk group number. The default is all trunk groups in the office.

   b = Control type. Valid value(s):
      CANT = Manual cancel-to control.
      SKIP = Manual skip control.
      CRO  = Manual cancel reroute control.
      RR   = Manual reroute control.
      CANF = Manual cancel-from control.

   c = Immediate reroute. Valid value(s):
      N = No (default).
      Y = Yes.

   Note: IRR can be specified only a trunk group number has been specified and the control type is RR.

4. SYSTEM RESPONSE

   NG = No good. Valid value(s):
      INVALID REQUEST = The request has been denied. This office is not equipped to process the request entered.

   PF = Printout follows. Followed by the CLR:TGC output message.

   RL = Retry later. Valid value(s):
      RESOURCE SHORTAGE The necessary resources are not available.

5. REFERENCES
Input Message(s):
   SET:TGC
   SET:RR
OP: TGC

Output Message(s):
CLR: TGC

Other Manual(s):
235-190-115  Local and Toll System Features

MCC Display Page(s):
130 (NM EXCEPTION)
CLR:TR

Software Release: 5E14 and later
Command Group: NMOC
Application: 5
Type: Input

1. PURPOSE
Requests that a single trunk reservation (TR) control be cleared on a specified trunk group.

2. FORMAT
CLR:TR,TG=a;

3. EXPLANATION OF MESSAGE
a = Trunk group (TG) number that has a TR control assigned.

4. SYSTEM RESPONSE
Pf = Printout follows. Followed by the CLR:TR output message.
RL = Retry later. May also include:
- RESOURCE SHORTAGE = The necessary resources are not available.

5. REFERENCES
Input Message(s):
ASGN:TR
OP:TR

Output Message(s):
CLR:TR

Other Manual(s):
235-190-101  Business and Residence Modular Features
235-190-115  Local and Toll System Features

MCC Display Page(s):
130 (NM EXCEPTION)
CLR:TRKDP

Software Release: 5E14 and later
Command Group: NMOC
Application: 5
Type: Input

1. PURPOSE

Removes trunk groups displayed in the TRUNK block of the defense switched network (DSN) network management (NM) exception page (page 129) from display boxes; however it keeps the trunk groups in the NM schedule. This TTY message is valid only for DSN switches.

2. FORMAT

CLR:TRKDP, {COL=a | ROW=b | COL=a, ROW=b};

3. EXPLANATION OF MESSAGE

   a = Column number (1-6).
   b = Row number (1-4).

   The TRUNK block of the DSN NM Exception Page displays traffic status and maintenance usages of trunk groups selected from the NM schedule. A display box in the TRUNK block identified by a column/row pair displays a trunk group number and its traffic and maintenance information.

   If 'a' is not given, trunk groups displayed on the given column are erased.

   If 'b' is not given, trunk groups displayed on the given row are erased.

   If both 'a' and 'b' are given, the trunk group displayed on the given column and row is erased.

4. SYSTEM RESPONSE

   NG = No good. May also include:
   - INVALID PARAMETER = Invalid column and/or row number.

   OK = Good. The request was accepted and completed, trunk groups displayed in specified boxes are erased.

   RL = Retry later. May also include:
   - RESOURCE SHORTAGE = The necessary resources are not available.

5. REFERENCES

Input Message(s):

   ASGN:DFSCH
   CLR:NMSCH
   OP:NMSCH
Other Manual(s):
235-900-113  Product Specification

MCC Display Page(s):

130 (DSN NM EXCEPTION)
109 (OVERLOAD)
CLR:TRN

Software Release: 5E14 and later
Command Group: ODD
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Requests that all active office-dependent data (ODD) database transactions be cleared in the administrative module (AM), the communication module processor (CMP) and all switching modules (SMs). The CLR:TRN may cause MEMMAN, TRNDC, OPNDC and other audit errors to report. The audits are recovering resources which were purged with the CLR:TRN. See the Audits manual for more details on the audit error reports.

WARNING: This message may cause recent change activity to fail. In addition, it may cause the transactions in progress to fail including BKUP:ODD and EXC:SODD processes.

2. FORMAT

CLR:TRN;

3. EXPLANATION OF MESSAGE

No variables.

4. SYSTEM RESPONSE

PF = Printout follows. Request was accepted and the CLR:TRN output message follows.

RL = Retry later. The necessary resources are not available.

5. REFERENCES

Input Message(s):

| BKUP:ODD |
| EXC:SODD-RED |
| EXC:SODD-RED-OP |
| EXC:SODD-STP |

Output Message(s):

| CLR:TRN |

Other Manual(s):

235-105-220 Corrective Maintenance
CLR:TROVRD
Software Release: 5E14 and later
Command Group: NMOC
Application: 5
Type: Input

1. PURPOSE
Requests that the trunk reservation (TR) inhibit override that was set as the result of a SET:TROVRD input message be cleared and all TR per-trunk-group inhibits be restored to their original state.

2. FORMAT
CLR:TROVRD;

3. EXPLANATION OF MESSAGE
No variables.

4. SYSTEM RESPONSE
PF = Printout follows. Followed by the CLR:TROVRD output message.

RL = Retry later. May also include:
   - RESOURCE SHORTAGE = The necessary resources are not available.

5. REFERENCES
Input Message(s):
   SET:TROVRD
   OP: TR

Output Message(s):
   CLR:TROVRD

Other Manual(s):
235-190-101   Business and Residence Modular Features
235-190-115   Local and Toll System Features

MCC Display Page(s):
130 (NM EXCEPTION)
CLR:TRUNK

Software Release: 5E14 and later
Command Group: TRKLN
Application: 5
Type: Input

1. PURPOSE

Requests that monitoring be stopped of a trunk group marked with stop-go signaling. This monitoring is initiated by the MON:TRUNK input message.

NOTE: An OP:TRUNK input message is recommended to verify if any trunks in the specified trunk group are being held off-hook and out-of-service. These trunks will be released from the held state and returned to service if the CLR:TRUNK input message is used.

2. FORMAT

CLR:TRUNK:TG=a;

3. EXPLANATION OF MESSAGE

a = Trunk group identifier.

4. SYSTEM RESPONSE

PF = Printout follows. Request accepted. Followed by the CLR:TRUNK output message.

5. REFERENCES

Input Message(s):

MON: TRUNK
OP: TRUNK

Output Message(s):

CLR: TRUNK
1. PURPOSE
Causes the definition of an administrative module (AM) generic access package (GRASP) transfer trace to be removed. The trace goes into the UNDEF state with successful completion of the message.

2. FORMAT
CLR:UMEM[:UCL];

3. EXPLANATION OF MESSAGE
UCL = Unconditional execution.

4. SYSTEM RESPONSE
?A = Action field or command code contains an error. It may mean that the command code was incorrectly typed or that a field delimiter was omitted. May also include:
   - INVALID KEYWORD = Message not allowed in a WHEN action list.

NG = No good. May also include:
   - TRACE NOT DEFINED = The trace is not defined.
   - UCERR = The circuit is unavailable.

PF = Printout follows. Followed by a CLR:UMEM output message.

RL = Retry later or wait for previous OP:UMEM to complete. The system is in an overload condition.

5. REFERENCES
Input Message(s):
   INIT:UMEM
   OP:UMEM
   OP:UTIL

Output Message(s):
   CLR:UMEM
   OP:UTIL
CLR:UPART

Software Release: 5E16(1) and later
Command Group: TRKLN
Application: 5
Type: Input

1. PURPOSE

To allow traffic and clear the alarm for the User Part specified by the input OPC( originating point code) /DPC(destination point code) pair.

2. FORMAT

CLR:UPART,OPC=a,DPC=b[,SIGTYPE=c];

3. EXPLANATION OF MESSAGE

a = Originating point code (OPC) consisting of a nine digit number. Refer to the APP:POINT-CODE appendix.

b = Destination point code (DPC) consisting of a nine digit number. Refer to the APP:POINT-CODE appendix.

c = Signaling type. Valid value(s):
   - BICC

4. SYSTEM RESPONSE

PF = Printout follows. Followed by the CLR UPART output message.

5. REFERENCES

Output Message(s):

CLR:UPART

Input Appendix(es):

APP:POINT-CODE
CLR:UT-CMP

Software Release: 5E14 and later
Command Group: SFTUTIL
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Requests that one specific WHEN clause or all WHEN clauses from both the application program and the memory of the communication module processor (CMP) be removed.

This message may be used together with any of the other CMP generic utility input messages. Refer to the References section of this message.

If this message is used together with other generic utility messages, the END:UT-CMP input message may be used to signal the end of the series of messages.

WARNING: The user takes responsibility for any effects on system operation that result from the use of this input message. Know the effects of the message before using it.

2. FORMAT

CLR:UT:CMP=a,{MATE|PRIM},{UTIL|UTILFLAG=b}{!|;}

3. EXPLANATION OF MESSAGE

MATE = Execute this input message on the standby CMP.
PRIM = Execute this input message on the active CMP.
UTIL = Execute this input message on all of the WHEN clauses in the specified CMP.

a = CMP number.

b = The identification number of a specific WHEN clause, which is to be removed from the CMP.

4. SYSTEM RESPONSE

Refer to the APP:UT-IM-REASON appendix in the Appendixes section of the Input Messages manual.

5. REFERENCES

Input Message(s):

ALW:UT-CMP
COPY:UT-CMP
DUMP:UT-CMP
ELSE:UT-CMP
END:UT-CMP
EXC:UT-CMP
IF:UT-CMP
IF: UT-CMP-ENDIF
INH: UT-CMP
LOAD: UT-CMP
OP: UT-CMP
WHEN: UT-CMP

Output Message(s):
CLR: UT-CMP

Input Appendix(es):
APP: UT-IM-REASON

Other Manual(s):
235-105-110  System Maintenance Requirements and Tools
CLR:UT-MCTSI-PI

Software Release: 5E14 and later
Command Group: SFTUTIL
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Requests that one specific WHEN clause or all WHEN clauses from both the application program and the memory of the packet interface (PI) unit be removed.

NOTE: This input message is only supported on PIs of the PI2 hardware type.

WARNING: The user is responsible for any effects on system operation that result from the use of this input message. Know the effects of the message before using it.

2. FORMAT

CLR:UT:MCTSI=a-b,PI,{UTIL|UTILFLAG=c}{!|;}

3. EXPLANATION OF MESSAGE

UTIL = Execute this input message on all of the WHEN clauses in the specified PI.

a = Switching module (SM) number.

b = Side of the module controller/time-slot interchange (MCTSI).

c = The identification number of a specific WHEN clause, which is to be removed from the PI.

4. SYSTEM RESPONSE

Refer to the APP:UT-IM-REASON appendix in the Appendixes section of the Input Messages manual.

5. REFERENCES

Input Message(s):

ALW:UT-MCTSI-PI
COPY:UT-MCTSI-PI
DUMP:UT-MCTSI-PI
ELSE:UT-MCTSI-PI
END:UT-MCTSI-PI
EXC:UT-MCTSI-PI
IF:UT-MCTSI-PI
IF:UT-MCTSI-PE
INH:UT-MCTSI-PI
LOAD:UT-MCTSI-PI
OP:UT-MCTSI-PI
WHEN:UT-MCTSI-PI
Input Appendix(es):

APP: UT-IM-REASON

Other Manual(s):
235-105-110  System Maintenance Requirements and Tools
235-600-400  Audits
CLR:UT-PSUPH-A

Software Release: 5E14 - 5E15
Command Group: SFTUTIL
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Requests that one specific WHEN clause or all WHEN clauses from both the application program and the memory of the packet switch unit protocol handler (PSUPH) be removed.

NOTE: This input message is only supported on PSUPHs of the PH3/PH4 hardware type (that is, not PH2 hardware types).

This message may be used together with any of the other PSUPH generic utility input messages Refer to the References section of this message.

If this message is used together with other generic utility messages, the END:UT-PSUPH input message may be used to signal the end of the series of messages.

WARNING: The user is responsible for any effects on system operation that result from the use of this input message. Know the effects of the message before using it.

2. FORMAT

CLR:UT:PSUPH=a-b-c-d,{UTIL|UTILFLAG=b}{!|;}

3. EXPLANATION OF MESSAGE

UTIL = Execute this input message on all of the WHEN clauses in the specified PSUPH.

a = Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

b = Unit number (always 0).

c = Shelf number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

d = Slot number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

b = The identification number of a specific WHEN clause, which is to be removed from the PSUPH.

4. SYSTEM RESPONSE

Refer to the APP:UT-IM-REASON appendix in the Appendixes section of the Input Messages manual.

5. REFERENCES
Input Message(s):

ALW:UT-PSUPH
COPY:UT-PSUPH
DUMP:UT-PSUPH
ELSE:UT-PSUPH
END:UT-PSUPH
EXC:UT-PSUPH
IF:UT-PSUPH
IF:UT-PSUPH-END
INH:UT-PSUPH
LOAD:UT-PSUPH
OP:UT-PSUPH
WHEN:UT-PSUPH

Output Message(s):

CLR:UT-PSUPH

Input Appendix(es):

APP:UT-IM-REASON

Other Manual(s):
235-105-110 System Maintenance Requirements and Tools
235-600-400 Audits
CLR:UT-PSUPH-B
Software Release: 5E16(1) and later
Command Group: SFTUTIL
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE
Requests that one specific WHEN clause or all WHEN clauses from both the application program and the memory of the packet switch unit protocol handler (PSUPH) be removed.

This input message is not supported on PSUPHs of the PH2 hardware type and is supported on all others. This message may be used together with any of the other PSUPH generic utility input messages. Refer to the REFERENCES section of this message description. If this message is used together with other generic utility messages, the END:UT-PSUPH input message may be used to signal the end of the series of messages.

WARNING: The user is responsible for any effects on system operation that result from the use of this input message. Know the effects of the message before using it.

2. FORMAT
CLR:UT:PSUPH=a-b-c-d,{UTIL|UTILFLAG=e};

3. EXPLANATION OF MESSAGE

UTIL = Execute this input message on all of the WHEN clauses in the specified PSUPH.

a = Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

b = Packet switching unit (PSU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

c = Shelf number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

d = Slot number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

e = The identification number of a specific WHEN clause, which is to be removed from the PSUPH.

4. SYSTEM RESPONSE
Refer to the APP:UT-IM-REASON appendix in the Appendixes section of the Input Messages manual.

5. REFERENCES
Input Message(s):
CLR:UT-SM

Software Release: 5E14 and later
Command Group: SFTUTIL
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Requests that one specific WHEN clause or all WHEN clauses be removed from both the application program and the memory of the switching module (SM).

This message may be used together with any of the other SM generic utility input messages. Refer to the References section of this message. If this message is used together with other generic utility messages, the END:UT-SM input message may be used to signal the end of the series of messages.

WARNING: The user is responsible for any effects on system operation that result from the use of this input message. Know the effects of the message before using it.

2. FORMAT

CLR:UT:SM=a[&&b],{UTIL|UTILFLAG=c}{!|;}

3. EXPLANATION OF MESSAGE

UTIL = Execute this input message on all of the WHEN clauses in the specified SM(s).

a = SM number or the lower limit of a range of SM numbers.

b = Upper limit of a range of SM numbers.

c = The identification number of a specific WHEN clause, which is to be removed from the specified SM(s).

4. SYSTEM RESPONSE

Refer to the APP:UT-IM-REASON appendix in the Appendixes section of the Input Messages manual.

5. REFERENCES

Input Message(s):

ALW:UT-SM
COPY:UT-SM
DUMP:UT-SM
ELSE:UT-SM
END:UT-SM
EXC:UT-SM
IF:UT-SM
IF:UT-SM-ENDIF
INH:UT-SM
LOAD: UT-SM
OP: UT-SM
WHEN: UT-SM

Output Message(s):
CLR: UT-SM

Input Appendix(es):
APP: UT-IM-REASON

Other Manual(s):
235-105-110  System Maintenance Requirements and Tools
CLR:UTIL

Software Release: 5E14 and later
Command Group: SFTUTIL
Application: 5,3B
Type: Input

1. PURPOSE

Removes all currently defined administrative module (AM) generic access package (GRASP) breakpoints; clears definitions.

2. FORMAT

CLR:UTIL[,RESET];

3. EXPLANATION OF MESSAGE

RESET = The RESET option causes the breakpoint number to be re-initialized; the next breakpoint defined will be given the number 1.

4. SYSTEM RESPONSE

NG = No good. No GRASP breakpoints are currently defined.
PF = Printout follows. Followed by the CLR:UTIL output message.
RL = Retry later. The system is in an overload condition or completing a previous OP:UMEM message.

5. REFERENCES

Input Message(s):
CLR:UTILFLAG
OP:UMEM
OP:UTIL
WHEN:PID
WHEN:UID

Output Message(s):
CLR:UTIL
OP:UTIL
CLR:UTILFLAG

**Software Release:** 5E14 and later  
**Command Group:** SFTUTIL  
**Application:** 5,3B  
**Type:** Input

1. **PURPOSE**

Removes the specified administrative module (AM) generic access package (GRASP) breakpoint and clears the definition.

2. **FORMAT**

CLR:UTILFLAG=a[,RESET];

3. **EXPLANATION OF MESSAGE**

- **RESET** = If ‘a’ is the last remaining defined breakpoint, then the RESET option causes breakpoint numbering to be reinitialized; the next defined breakpoint will be given the number 1.

  If ‘a’ is not the last defined breakpoint, then the RESET keyword is ignored.

- **a** = Numeric identifier (one or more decimal digits) for the breakpoint to be cleared.

4. **SYSTEM RESPONSE**

- **NG** = No good. Identifier does not correspond to a currently defined breakpoint.

- **PF** = Printout follows. Followed by the CLR:UTILFLAG output message.

- **RL** = Retry later. The system is in an overload condition or completing the previous OP:UMEM message.

5. **REFERENCES**

Input Message(s):

- CLR:UTIL  
- OP:UTIL  
- OP:UMEM  
- WHEN:PID  
- WHEN:UID

Output Message(s):

- CLR:UTILFLAG  
- OP:UTIL  
- WHEN:PID  
- WHEN:UID
CLR:WSDGTL
Software Release: 5E14 and later
Command Group: TRKLN
Application: 5
Type: Input

1. PURPOSE
Requests that the trunk and line work station (TLWS) test position (TP) digital testing defaults be reset to the system defaults. The stored defaults are then used when a TST:WSDGTL test is requested and the values are not explicitly set.

There are four system defaults for digital testing. Valid value(s):
BLKSZ = 56000.
CHAN = ALL channels.
TERM = Line termination (LT).
TESTEQ = D-channel.

2. FORMAT
CLR:WSDGTL,TP=a;

3. EXPLANATION OF MESSAGE
a = TLWS TP number.

4. SYSTEM RESPONSE
NG = No good. Refer to the APP:TLWS appendix in the Appendixes section of the Output Messages Manual for an explanation of TLWS error responses.
OK = Good. Digital testing defaults were reset.

5. REFERENCES
Input Message(s):
RLS:WSTST
SET:WSDGTL
STP:WSTST
TST:WSDGTL

Output Appendix(es):
APP:TLWS

Other Manual(s):
235-100-125 System Description
235-105-110 System Maintenance Requirements and Tools
235-105-220 Corrective Maintenance

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MCC Display Page(s):

160 (TRUNK & LINE MAINT)
CLR:WSFREQ

Software Release: 5E14 and later
Command Group: TRKLN
Application: 5
Type: Input

1. PURPOSE

Requests that the frequency and level be cleared at a particular trunk and line work station (TLWS) test position (TP). Frequency and level returns to the default values of 1004 Hz at 0 db.

2. FORMAT

CLR:WSFREQ,TP=a;

3. EXPLANATION OF MESSAGE

a = TLWS TP number.

4. SYSTEM RESPONSE

NG = No good. Refer to the APP:TLWS appendix in the Appendixes section of the Output Messages Manual for an explanation of TLWS error responses.

OK = Good. Default frequency and level reset to 1004 Hz at 0 dBm.

5. REFERENCES

Input Message(s):

SET:WSFREQ
SET:WSPOS

Output Appendix(es):

APP:TLWS

Other Manual(s):
235-100-125 System Description
235-105-110 System Maintenance Requirements and Tools
235-105-220 Corrective Maintenance

MCC Display Page(s):

160 (TRUNK & LINE MAINT)
CLR:WSOPD

Software Release: 5E14 and later
Command Group: TRKLN
Application: 5
Type: Input

1. PURPOSE

Requests that the digits that are used for automatic outpulsing on the trunk associated with the indicated trunk and line work station (TLWS) test position (TP) be cleared.

2. FORMAT

CLR:WSOPD,TP=a;

3. EXPLANATION OF MESSAGE

a = TLWS TP number.

4. SYSTEM RESPONSE

NG = No good. Refer to the APP:TLWS appendix in the Appendixes section of the Output Messages Manual for an explanation of TLWS error responses.

OK = Good. The outpulse digits have been cleared.

5. REFERENCES

Other Manual(s):
235-100-125 System Description
235-105-110 System Maintenance Requirements and Tools
235-105-220 Corrective Maintenance

MCC Display Page(s):

(TRUNK & LINE MAINT)

RC/V View(s):

14.5 (VERIFY 101 TEST LINE)
17. CMPR
CMPR:DISK-CORE

Software Release: 5E14 and later
Command Group: FHADM
Application: 5,3B
Type: Input

1. PURPOSE

Compares the text portions of the disk and core images of a non-killable process. Equipment configuration database (ECD) and public library (PLIB) can also be compared.

2. FORMAT

CMPR:DISK,CORE,FN="a"; [, OPTNM="b",MPT="c",MHDNUM="d"];

3. EXPLANATION OF MESSAGE

a = Pathname of the file. The pathname is a list of the names of each directory leading to the file, and ends with the name of the specific file. Each name begins with a slash, and the entire pathname is enclosed in quotation marks. For example, "/usr/a1/ssw/test" means that /usr/a1/ssw is the list of directory names and /test is the file name.

b = Special device file name on offline partition (that is, /dev/root).

c = Pathname of mount point.

d = MHD number.

4. SYSTEM RESPONSE

PF = Printout follows. The CMPR:DISK-CORE output message follows.

5. REFERENCES

Output Message(s):

CMPR:DISK-CORE
UPD:SYSERR

Other Manual(s):
235-105-210 Routine Operations and Maintenance

MCC Display Page(s):
(CRAFT FM 01)
CMPR:MHD

**Software Release:** 5E14 and later  
**Command Group:** FHADM  
**Application:** 5,3B  
**Type:** Input  

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Compares the contents of two disks or two disk partitions. A disk partition may reside on the disk of its duplex mate, or on an arbitrary disk. Also, both disk partitions may reside on the same disk.

Only one CMPR:MHD or COPY:DIFF-SRC-MHD input message is allowed to run at one time. If more than one is attempted, the disk file controller (DFC) will deny the request and output an error code to that effect.

**WARNING:** Incorrect use of this input message can degrade system performance. This input message should not be used without expert technical assistance. This message should not be executed during AM or CM REX. Ignoring this warning could lead to call processing problems.

2. FORMAT

\[
\text{CMPR:MHD=}a[,\text{PTN=}(b|c\&d)][:\text{MATE|MHD=}e[,\text{PTN=}(b|c\&d)][:\text{DATA}[,\text{BLOCKS=}f[,\text{RO}]]]}
\]

3. EXPLANATION OF MESSAGE

- **RO** = All blocks on specified moving head disks (MHDs) or partitions will be read into memory, but no comparison will be performed. If MHD 'e' or MATE is not specified, the reads will only be performed on MHD 'a'.
- **a** = First member number.
- **b** = Partition numbers, or list of partitions (r1, r2, r3, ..., rn) where the list may include 64 entries. Default will be all but the FREE, UNASGN, DIAG, SWAP, and PDUMP partitions.
- **c-d** = A range of partition numbers where a list of up to 32 ranges (p0-p1, p2-p3, p4-p5, ..., pm-pn) may be specified. A range has the format 'c-d' where 'd' must be greater than 'c'.
- **e** = Second member number. If MHD 'a' or MATE is not specified, MATE is the default.
- **f** = An integer value indicating the size of the input/output (I/O) buffers as a multiple of disk blocks. If 'BLOCKS' is not specified, the default is 256. However, if 'BLOCKS' is not specified, and the 'RO' option is used, then the default is 128.

4. SYSTEM RESPONSE

- **PF** = Printout follows. Followed by the CMPR:MHD output message.

5. REFERENCES
Input Message(s):

COPY: DIFF-SRC-MHD
DUMP: MHD-BLOCK
STOP: CMPR-MHD

Output Message(s):

CMPR: MHD

Other Manual(s):
235-105-110 System Maintenance Requirements and Tools
235-105-210 Routine Operations and Maintenance
235-105-220 Corrective Maintenance
18. CNVT
CNVT:AMA-CONFIG

Software Release: 5E14 and later
Command Group: SFTMGT
Application: 5
Type: Input

1. PURPOSE

Requests that the automatic message accounting (AMA) configuration files be converted from the previous software release to the new software release during retrofits, disk growths, or updates, to accommodate the new disk layouts.

NOTE: This message has no effect unless a retrofit, disk growth, or update is in progress.

2. FORMAT

CNVT:AMA:CONFIG;

3. EXPLANATION OF MESSAGE

No variables.

4. SYSTEM RESPONSE

PF = Printout follows. The request has been accepted, and the CNVT:AMA-CONFIG output message follows.

5. REFERENCES

Output Message(s):

CNVT:AMA-CONFIG

Other Manual(s):

Where (x) is the release-specific version of the specified manual.

235-105-24x Software Release Retrofit
CNVT:CORCLOG

Software Release: 5E14 and later
Command Group: SFTMGT
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Requests that customer-originated recent change (CORC) logfiles be evolved (converted) and reapplied. This message the binary plus CORC logfiles for reapplication on the target software release.

WARNING: This message is only applicable during retrofit and should only be used when following procedures detailed in the Software Release Retrofit document.

2. FORMAT

CNVT:CORCLOG[,EVOL,LOAD];

3. EXPLANATION OF MESSAGE

NOTE: If none of the options is specified, EVOL will be performed and CORCs will be inhibited.

EVOL = Evolves CORC logfiles from binary format of the current software release to binary plus format of the target software release.

LOAD = Reapplies binary plus CORC logfiles to target software release.

4. SYSTEM RESPONSE

NG = No good. The input request is not valid.
PF = Printout follows. Request accepted and the CNVT:CORCLOG output message follows.

5. REFERENCES

Input Message(s):

BKUP:ODD
CNVT:RCLOG
INH:CORC

Output Message(s):

CNVT:CORCLOG

Other Manual(s):

Where (x) is the release-specific version of the specified manual.
235-105-24x  Software Release Retrofit
235-105-34x  Software Release Update
1. PURPOSE

Requests that recent change (RC) logfiles be Evolved (converted) to a format compatible with the target software release.

WARNING: This message is only applicable during retrofit and should only be used when following procedures detailed in the Software Release Retrofit document.

2. FORMAT

CNVT:RCLOG[,EVOL|,LOAD];

3. EXPLANATION OF MESSAGE

EVOL  = Evolves RC ASCII logfiles from the format of the current software release to the format of the target software release.

LOAD  = Converts RC ASCII logfiles to binary format.

4. SYSTEM RESPONSE

NG  = No good. The input request is not valid.

PF  = Printout follows. Request accepted and the CNVT:CORCLOG output message follows.

5. REFERENCES

Input Message(s):

BKUP:ODD
CNVT:CORCLOG
INH:CORC

Output Message(s):

CNVT:CORCLOG
CNVT:RCLOG

Other Manual(s):

Where (x) is the release-specific version of the specified manual.

235-105-24x  Software Release Retrofit
1. PURPOSE

Requests that equipment numbers relating to remote terminals (RT) that interface to an integrated digital carrier unit (IDCU) or a digital networking unit - synchronous optical network (DNU-S) be converted. Given any of the three following identifiers, this message will provide the other two:

A  SID = Site identification number

B  For the IDCU:
   BIDCURT = Local number for an RT terminating on an IDCU.

   For the DCLU:
   DCLURT = Local number for an RT terminating on an DCLU.

   For the DNU-S:
   DNUSRT = Local number for an RT terminating on a DNU-S.R

C  For the IDCU:
   IFAC = Digital signal level one (DS1) facility (IFAC) number

   For the DCLU:
   SDFI = SLC® 96 digital facility interface (SDFI) number

   For the DNU-S:
   DS1SFAC = DNU-S digital signal level 1 facility (DS1SFAC) number R

2. FORMAT

CNVT:RT,a;

3. EXPLANATION OF MESSAGE

a  = Valid value(s):

| IFAC=c-e-h | DCLURT=c-d-b | IDCURT=c-e-b | DNUSRT=c-f-b | SDFI=c-d-g | DS1SFAC=c-f-i | SID=j |

b  = RT local number for IDCU or for DCLU. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
= Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

d = DCLU number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

e = IDCU number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

f = DNUS number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

g = SDFI number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

h = IFAC number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

i = DS1SFAC number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

j = Site identification number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

PF = Printout follows. The CNVT:RT-SID-LRT output message follows.

NG = No good. Unit does not exist. The specified RT equipment number could not be found in the database.

RL = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

Input Message(s):

INH:RT-FAC

Output Message(s):

CNVT:RT-SID-LRT

Input Appendix(es):

APP:RANGES

Other Manual(s):

235-105-220 Corrective Maintenance
235-105-110 System Maintenance Requirements and Tools
MCC Display Page(s):

1870.x (IDCU FACILITY)
1880.x,yy (IDCU REMOTE TERMINAL)
1511.x,yy (DNUS STS MAINTENANCE)
1512.x,yy (DNUS STS DS1 APPLICATION)
1660,xxxx (TR303 REMOTE TERMINAL)
1. PURPOSE

Requests an update of a switching module’s (SM) office-dependent data (ODD) to support stand-alone operation. This message populates the directory number (DN) translation data for all lines physically terminating on the given SM, such that the SM is capable of processing intramodule calls even when it becomes isolated from the rest of the switch.

NOTE: This input message is to be used only in conjunction with the SM stand-alone installation procedure. The conversion routine can take several minutes to complete.

2. FORMAT

CNVT:STANDALONE, SM=a[, UNDO];

3. EXPLANATION OF MESSAGE

UNDO = Restore the ODD to the state before conversion in the event that the first attempt to convert the SM aborted.

a = SM number of the module to be converted to stand-alone.

4. SYSTEM RESPONSE

NG = No good. The input request is not valid.

PF = Printout follows. One or more CNVT:STANDALONE output messages follows.

RL = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

Output Message(s):

CNVT:STANDALONE

Other Manual(s):
235-105-231 Hardware Change Procedures - Growth
19. CONN
1. PURPOSE

Requests seizure of an incoming 101TL (test-line) call at a trunk and line work station (TLWS) test position (TP). A test position must be assigned before accepting the call (refer to the SET:WSPOS input message).

2. FORMAT

CONN:WSIC,TP=a;

3. EXPLANATION OF MESSAGE

NOTE: Refer to the Acronym section of the Input Messages manual for the full expansion of acronyms shown in the format.

a = TLWS TP number.

4. SYSTEM RESPONSE

IP = In progress. Request in progress.

NG = No good. Refer to the APP:TLWS appendix in the Appendixes section of the Output Messages Manual for an explanation of TLWS error responses.

RL = Retry later. Refer to the APP:TLWS appendix in the Appendixes section of the Output Messages Manual for an explanation of TLWS error responses.

5. REFERENCES

Input Message(s):

SET:WSPOS

Output Appendix(es):

APP:TLWS

Other Manual(s):

235-100-125 System Description
235-105-110 System Maintenance Requirements and Tools
235-105-220 Corrective Maintenance

MCC Display Page(s):

160 (TRUNK & LINE MAINT)
CONN:WSJACK
Software Release: 5E14 and later
Command Group: TRKLN
Application: 5
Type: Input

1. PURPOSE

Requests connection of the specified line or trunk at the trunk and line work station (TLWS) test position (TP) to a test access unit (TAU) jack.

NOTE: If the TLWS talk & monitor (T&M) phone is not busy and the request is for an AC jack connection, the T&M phone will automatically be brought into the connection in the TALK state.

2. FORMAT

CONN:WSJACK,TP=a[,JACK=b];

3. EXPLANATION OF MESSAGE

a = TLWS TP number.

b = Jack connected. Valid value(s):
AC1 = AC jack position 1 (default).
AC2 = AC jack position 2.
DC1 = DC jack position 1.
DC2 = DC jack position 2.

4. SYSTEM RESPONSE

IP = In progress. Request in progress.

NG = No good. Refer to the APP:TLWS appendix in the Appendixes section of the Output Messages Manual for an explanation of TLWS error responses.

5. REFERENCES

Input Message(s):
CONN:WSIC
CONN:WSLINE
CONN:WSTRK
RLS:WSTST
SET:WSPOS
TST:WSMNTR

Output Appendix(es):
APP:TLWS

Other Manual(s):
System Description
System Maintenance Requirements and Tools
Corrective Maintenance

MCC Display Page(s):

160 (TRUNK & LINE MAINT)

RC/V View(s):

14.3 (TRUNK AND LINE WORK STATION)
1. PURPOSE

Requests seizure of (connection to) a line for interactive trunk and line work station (TLWS) testing. A test position (TP) must first be assigned before seizing a line (refer to the SET:WSPOS input message).

Lines are specified using one of the eleven formats shown below. Format 1 causes the port most recently requested for seizure on the test position to be reseized. A line is otherwise identified by either a directory number (DN, in Format 2), the integrated digital carrier unit (IDCU) line equipment number (ILEN, in Format 3), a line equipment number (LEN, in Format 4), a multi-line hunt group member number (MLHG, in Format 5), a subscriber loop carrier line equipment number (SLEN, in Format 6), a line card equipment number (LCEN, in Format 7), a line circuit equipment number on an integrated services line unit, version 2 (LCKEN, in Format 8), an application processor group member number (AP, in Format 9), an access interface unit equipment number (AIUEN) on an access interface unit (in Format 10), or an DNU-S (Digital Networking Unit-Synchronous Optical Network) number (INEN, in Format 11).

2. FORMAT

[1] CONN:WSLINE,TP=a;
[2] CONN:WSLINE,TP=a,DN=b[-c][,PKTDN][,CPE|USPID];
[3] CONN:WSLINE,TP=a,ILEN=d-t-u-v[,CPE|USPID];
[5] CONN:WSLINE,TP=a,MLHG=j-k[,CPE|USPID];
[6] CONN:WSLINE,TP=a,SLEN=d-l-m-n;
[7] CONN:WSLINE,TP=a,LCEN=d-o-p-q[,CPE|USPID];
[8] CONN:WSLINE,TP=a,LCKEN=d-w-x-y-z[,CPE|USPID];
[9] CONN:WSLINE,TP=a,AP=r-s;
[10] CONN:WSLINE,TP=a,AIUEN=d-a^{1}-b^{1}-c^{1};
[11] CONN:WSLINE,TP=a,INEN=d-d^{1}-m-n;

3. EXPLANATION OF MESSAGE

NOTE: Refer to the Acronym section of the Input Messages manual for the full expansion of acronyms shown in the format.

CPE = Obtain the customer premises equipment (CPE) information for this line and display on the TLWS screen. Valid only for digital subscriber lines (DSLs). Note: this request is not allowed through MML input.

USPID = Obtain the user service profile identifier (USPID) information for this line and display on the TLWS
screen. Valid only for DSLs. Note: this request is not allowed through MML input.

a  = TLWS TP number.

b  = Directory number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

c  = Member number of the MLHG or line time slot bridging (LTSB) line. For MLHG the DN specified must be the main DN for the group and the member number specifies which member of the group will be seized. For LTSB a member number of 1 will seize the lead line and a member number of 2 will seize the associate line. If no member number is specified, for 1-DN LTSB, the lead line will be seized. If no member number is specified, for 2-DN LTSB, the line associated with the DN entered will be seized.

d  = Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

e  = Line unit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

f  = Grid number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

 g  = Switch board number (LU1, LU2, or LU3). Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

h  = Switch number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

i  = Level number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

j  = MLHG number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

k  = MLHG member number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

l  = Digital carrier line unit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

m  = Remote terminal (RT) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

n  = RT line number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

o  = Integrated services line unit (ISLU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

p  = Line group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

q  = Line card number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
r = Data link (group) number of the AP. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

s = Relative link (member) number of the AP. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

t = Integrated digital carrier unit (IDCU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

u = RT number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

v = RT line number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

w = Integrated service line unit 2 (ISLU2). Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

x = Line group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

y = Line board number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

z = Line circuit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

a1 = Access interface unit (AIU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

b1 = AIU line pack number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.


d1 = DNU number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

IP = In progress.

NG = No good. Refer to the APP:TLWS appendix in the Appendixes section of the Output Messages Manual for an explanation of TLWS error responses.

5. REFERENCES

Input Message(s):

DISC:WSLINE
DISC:WSPORT
SET:WSPOS
Input Appendix(es):

APP: RANGES

Output Appendix(es):

APP: TLWS

Other Manual(s):
235-100-125 System Description
235-105-110 System Maintenance Requirements and Tools
235-105-220 Corrective Maintenance

MCC Display Page(s):

160 (TRUNK & LINE MAINT)
CONN:WSPHONE

Software Release: 5E14 and later
Command Group: TRKLN
Application: 5
Type: Input

1. PURPOSE

Requests to connect the trunk and line work station (TLWS) talk-and-monitor (T&M) phone with the current line or trunk associated with the test position (TP).

The T&M phone will be connected in the MONITOR mode of operation (refer to the SET:WSPHONE input message for changing the T&M mode) when it is initially connected.

2. FORMAT

CONN:WSPHONE,TP=a;

3. EXPLANATION OF MESSAGE

a          = TLWS TP number.

4. SYSTEM RESPONSE

OK          = The phone has been added.
NG          = No good. Refer to the APP:TLWS appendix in the Appendixes section of the Output Messages Manual for an explanation of TLWS error responses.

5. REFERENCES

Input Message(s):

DISC:WSPHONE
SET:WSPHONE
SET:WSPOS

Output Message(s):

CONN:WSPHONE

Output Appendix(es):

APP:TLWS

Other Manual(s):

235-100-125  System Description
235-105-110  System Maintenance Requirements and Tools
235-105-220  Corrective Maintenance

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MCC Display Page(s):

160 (TRUNK & LINE MAINT)

RC/V View(s):

14.3 (TRUNK AND LINE WORK STATION)
CONN:WSPORT

Software Release: 5E14 and later
Command Group: TRKLN
Application: 5
Type: Input

1. PURPOSE

Requests that the port (line or trunk) that is associated with the specified trunk and line work station (TLWS) test position (TP) be re-seized. The association was accomplished earlier using a CONN:WSLINE, CONN:WSTRK or CONN:WSIC input message.

2. FORMAT

CONN:WSPORT,TP=a;

3. EXPLANATION OF MESSAGE

a = TLWS TP number.

4. SYSTEM RESPONSE

NG = No good. Refer to the APP:TLWS appendix in the Appendixes section of the Output Messages manual for an explanation of TLWS error responses.

OK = Good. Port seized.

5. REFERENCES

Input Message(s):

CONN:WSIC
CONN:WSLINE
CONN:WSTRK
SET:WSPOS

Output Appendix(es):

APP:TLWS

Other Manual(s):

235-100-125 System Description
235-105-110 System Maintenance Requirements and Tools
235-105-220 Corrective Maintenance

MCC Display Page(s):

160 (TRUNK & LINE MAINT)
1. PURPOSE

Requests seizure of (connection to) a trunk for interactive trunk and line work station (TLWS) testing. A test position (TP) must be assigned before seizing the trunk (refer to the SET:WSPOS input message).

Format 1 will cause the port most recently requested for seizure on the TP to be reseized. In Format 2, a trunk is identified by a digital equipment number (DEN). In Format 3, a trunk is identified by a trunk (analog) equipment number (TEN). In Format 4, a trunk is identified by a trunk group (TG) (first member). In Format 5, a trunk is identified by a specific member of a trunk group (TKGMN). In Format 6, the trunk is identified by a next member (NEXTMEM) of the trunk group currently being tested. In Format 9, a trunk is identified by a SLC® line equipment number (SLEN). In Format 10, the trunk is identified by an integrated digital carrier unit (IDCU) line equipment number (ILEN). In Format 11, the trunk is identified by a networking equipment number (NEN). In Format 12, a trunk is identified by a packet switching unit (PSU) equipment number (PSUEN). In Format 13, a trunk is identified by a Digital Networking Unit-Synchronous Optical Network (DNU-S) number (INEN). The digital service unit 2 recorded announcement function (DSU2-RAF) announcement port is seized by using Format 7. The service announcement system (SAS) digital service circuit port is seized by using Format 8.

Note: Announcement test function (ATF) will either be a RAF or SAS.

2. FORMAT

[1] CONN:WSTRK,TP=a;
[2] CONN:WSTRK,TP=a,DEN=b-c-d-e;
[7] CONN:WSTRK,TP=a,RAF=b-l-m;
[8] CONN:WSTRK,TP=a,SAS=b-l-m;
[9] CONN:WSTRK,TP=a,SLEN=b-n-o-p;
[10] CONN:WSTRK,TP=a,ILEN=b-q-r-s;
[12] CONN:WSTRK,TP=a,PSUEN=b-y-z-a1-b1;

3. EXPLANATION OF MESSAGE
a = TLWS TP number.
b = Switching module number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
c = Digital line and trunk unit (DLTU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
d = Digital facility interface (DFI) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
e = Channel number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
f = Trunk unit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
g = Service group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
h = Channel board number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
i = Circuit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
j = Trunk group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
k = Trunk member number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
l = ATF unit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
m = Announcement port number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
n = Digital carrier line unit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
o = Remote terminal number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
p = Remote terminal line number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
q = Integrated digital carrier unit (IDCU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
r = Remote terminal (RT) number in the IDCU or the digital signaling 1 (DS1) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
s = RT line number or the digital signaling 0 (DS0) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
= Digital networking unit - synchronous optical network (SONET) (DNU-S) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

= Data group (DG) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

= Synchronous transport signal (STS) facility number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

= SONET termination equipment (STE) facility number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

= Digital signal level 0 (DS0) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

= PSU unit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

= PSU shelf number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

= PSU channel group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

= PSU channel group member number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

= Virtual tributary group (VTG) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

= Virtual tributary member (VTM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

OK  = Port has been seized.

NG  = No good. Refer to the APP:TLWS appendix in the Appendixes section of the Output Messages Manual for an explanation of TLWS error responses.

RL  = Retry later. Refer to the APP:TLWS appendix in the Appendixes section of the Output Messages Manual for an explanation of TLWS error responses.

5. REFERENCES

Input Message(s):

DISC:WSTRK
DISC:WSPORT
SET:WSPOS

Input Appendix(es):
APP: RANGES

Output Appendix(es):

APP: TLWS

Other Manual(s):
235-100-125  System Description
235-105-110  System Maintenance Requirements and Tools
235-105-220  Corrective Maintenance

MCC Display Page(s):

160 (TRUNK & LINE MAINT)
CONN:WSTRK-B

Software Release: 5E15 only
Command Group: TRKLN
Application: 5
Type: Input

1. PURPOSE

Requests seizure of (connection to) a trunk for interactive trunk and line work station (TLWS) testing. A test position (TP) must be assigned before seizing the trunk (refer to the SET:WSPOS input message).

Format 1 will cause the port most recently requested for seizure on the TP to be reseized.

In Format 2, a trunk is identified by a digital equipment number (DEN).

In Format 3, a trunk is identified by a trunk (analog) equipment number (TEN).

In Format 4, a trunk is identified by a trunk group (TG) (first member).

In Format 5, a trunk is identified by a specific member of a trunk group (TKGMN).

In Format 6, the trunk is identified by a next member (NEXTMEM) of the trunk group currently being tested.

In Format 9, a trunk is identified by a SLC® line equipment number (SLEN).

In Format 10, the trunk is identified by an integrated digital carrier unit (IDCU) line equipment number (ILEN).

In Format 11, the trunk is identified by a networking equipment number (NEN).

In Format 12, a trunk is identified by a packet switching unit (PSU) equipment number (PSUEN).

In Format 13, a trunk is identified by a Digital Networking Unit-Synchronous Optical Network (DNU-S) number (INEN).

In Format 14, a trunk is identified by a Peripheral Control and Timing Facility Interface (PCTFI) equipment number (PLTEN).

The digital service unit 2 recorded announcement function (DSU2-RAF) announcement port is seized by using Format 7.

The service announcement system (SAS) digital service circuit port is seized by using Format 8.

Note: Announcement test function (ATF) will either be a RAF or SAS.

2. FORMAT

[1]  CONN:WSTRK,TP=a;
[2]  CONN:WSTRK,TP=a,DEN=b-c-d-e;
3. EXPLANATION OF MESSAGE

a  = TLWS TP number.
b  = Switching module number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
c  = Digital line and trunk unit (DLTU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
d  = Digital facility interface (DFI) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
e  = Channel number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
f  = Trunk unit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
g  = Service group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
h  = Channel board number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
i  = Circuit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
j  = Trunk group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
k  = Trunk member number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
l  = ATF unit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
m  = Announcement port number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
the Input Messages manual.

n = Digital carrier line unit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

o = Remote terminal number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

p = Remote terminal line number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

q = Integrated digital carrier unit (IDCU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

r = Remote terminal (RT) number in the IDCU or the digital signaling 1 (DS1) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

s = RT line number or the digital signaling 0 (DS0) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

t = Digital networking unit - synchronous optical network (SONET) (DNU-S) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

u = Data group (DG) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

v = Synchronous transport signal (STS) facility number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

w = SONET termination equipment (STE) facility number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

x = Digital signal level 0 (DS0) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

y = PSU unit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

z = PSU shelf number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

a₁ = PSU channel group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

b₁ = PSU channel group member number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

c₁ = Virtual tributary group (VTG) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

d₁ = Virtual tributary member (VTM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

e₁ = Peripheral Control and Timing (PCT) Line and Trunk Unit (PLTU) number.

f₁ = PCT Facility Interface (PCTFI) number.
g^1 = Tributary number.

h^1 = Channel number.

4. SYSTEM RESPONSE

OK = Port has been seized.

NG = No good. Refer to the APP:TLWS appendix in the Appendixes section of the Output Messages Manual for an explanation of TLWS error responses.

RL = Retry later. Refer to the APP:TLWS appendix in the Appendixes section of the Output Messages Manual for an explanation of TLWS error responses.

5. REFERENCES

Input Message(s):

DISC:WSTRK
DISC:WSPORT
SET:WSPOS

Input Appendix(es):

APP:RANGES

Output Appendix(es):

APP:TLWS

Other Manual(s):

235-100-125  System Description
235-105-110  System Maintenance Requirements and Tools
235-105-220  Corrective Maintenance

MCC Display Page(s):

160 (TRUNK & LINE MAINT)
1. PURPOSE

Requests seizure of (connection to) a trunk for interactive trunk and line work station (TLWS) testing. A test position (TP) must be assigned before seizing the trunk (refer to the SET:WSPOS input message).

Note: Announcement test function (ATF) will either be a RAF or SAS.

2. FORMAT

CONN:WSTRK,TP=a[,b];

3. EXPLANATION OF MESSAGE

a  = TLWS TP number.

b  = Unit. Valid value(s):

DEN=c-d-e-f
ILEN=c-r-s-t
INEN=c-u-p-q
NEN=c-u-v-x-w-d^1-e^1-y
NEXTMEM
RAF=c-m-n
SAS=c-m-n
SLEN=c-o-p-q
TEN=c-g-h-i-j
TG=k
TKGMN=k-l
PSUEN=e-z-a^1-b^1-c^1
OIUEN=c-l^1-m^1-n^1-o^1-p^1-q^1-f
PLTEN=c-f^1-g^1-h^1-i^1
VTRK=c-j^1-k^1

c  = Switching module number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

d  = Digital line and trunk unit (DLTU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

e  = Digital facility interface (DFI) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

f  = Channel number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

g  = Trunk unit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
h = Service group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

i = Channel board number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

j = Circuit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

k = Trunk group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

l = Trunk member number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

m = ATF unit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

n = Announcement port number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

o = Digital carrier line unit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

p = Remote terminal number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

q = Remote terminal line number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

r = Integrated digital carrier unit (IDCU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

s = Remote terminal (RT) number in the IDCU or the digital signaling 1 (DS1) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

t = RT line number or the digital signaling 0 (DS0) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

u = Digital networking unit - synchronous optical network (SONET) (DNU-S) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

v = Data group (DG) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

w = Synchronous transport signal (STS) facility number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

x = SONET termination equipment (STE) facility number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

y = DS0 number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

z = PSU unit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
Messages manual.

a¹ = PSU shelf number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

b¹ = PSU channel group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

c¹ = PSU channel group member number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

d¹ = Virtual tributary group (VTG) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

e¹ = Virtual tributary member (VTM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

f¹ = Peripheral control and timing (PCT) line and trunk unit (PLTU) number.

g¹ = PCT facility interface (PCTFI) number.

h¹ = Tributary number.

i¹ = Channel number.

j¹ = Virtual trunk facility number.

k¹ = Virtual trunk channel number.

l¹ = Optical interface unit number.

m¹ = Protection group number.

n¹ = OC-3 STE number.

o¹ = STS level 1 (STS-1) number.

p¹ = Virtual tributary 1.5 group (VTGRP) number.

q¹ = Virtual tributary 1.5 member (VTMEM) number.

4. SYSTEM RESPONSE

OK = Port has been seized.

NG = No good. Refer to the APP:TLWS appendix in the Appendixes section of the Output Messages Manual for an explanation of TLWS error responses.

RL = Retry later. Refer to the APP:TLWS appendix in the Appendixes section of the Output Messages Manual for an explanation of TLWS error responses.

5. REFERENCES

Input Message(s):
COPY:ACTDISK

Software Release: 5E14 and later
Command Group: FHADM
Application: 5,3B
Type: Input

1. PURPOSE

Copies a file from an active disk to an offline (OFL) or out-of-service (OOS) disk. The file can be a regular file, a contiguous file (type "C" or "x"), or a block device (type "b", partition or file system). For a regular or contiguous file, the destination file will be created with type, owner, and permission flags similar to those of the source file.

2. FORMAT

COPY:ACTDISK,MHD=a,SRC="b",PTN="c"[,DEST="d"];

3. EXPLANATION OF MESSAGE

a  = Specifies destination disk unit. This disk should not be active.
b  = Full pathname of the file to be copied. This file should exist on an active disk.
c  = Special device filename or number of the destination partition on the non-active disk. If a name is specified, then this partition should exist on the active disk.
d  = A pathname where the file is to be written, on the non-active file system. If this name is not specified, the path name of the source file will be used. If the name starts with a "/", then the mount point will be excluded. This name should not be specified if the source is a partition or file system.

4. SYSTEM RESPONSE

PF  = Printout follows. Followed by the COPY:ACTDISK output message.

5. REFERENCES

Output Message(s):

COPY:ACTDISK
COPY:ADDR

Software Release: 5E14 and later
Command Group: SFTUTIL
Application: 5,3B
Type: Input

1. PURPOSE

Requests that data be copied from virtual addresses in main memory to other virtual addresses, registers, or administrative module (AM) generic access package (GRASP) utility variables as a response to a breakpoint.

Indirect addressing may be specified. The first listed offset is added to the value of the source address and the result is used as a virtual address of a location in main memory. The number of offsets specified defines the length of the chain of virtual addresses to be accessed in this way before accessing the desired range of source locations. For example, a single offset with value 0 uses the virtual address found in the source for the location to be copied.

2. FORMAT

COPY:ADDR=a[,OFF=b] [,L=c|,NL=d] {:ADDR=e|:UVAR=f|:REG=g} [:WORD];

3. EXPLANATION OF MESSAGE

WORD = All addresses, offsets, and lengths are interpreted in terms of words (including addresses derived in address chains). If this option is omitted, values given are in bytes.

a = The starting virtual address for the source data in decimal, octal, or hexadecimal notation.

b = A single offset or list of up to five offsets. Omission of the keyword implies no indirect addressing. Offsets are in bytes unless the WORD option is specified.

c = The length of the copy in bytes unless the WORD option is specified. The maximum is 128 bytes or 32 words. The default is 1 word or byte.

d = The operation will use the locations beginning 'd' lower than the calculated address and ending at the address. The locations are used in ascending order.

e = The virtual address of the destination for the data in decimal, octal, or hexadecimal notation.

f = A GRASP utility variable, in decimal, to be written as the destination copy. Utility variable values are reset to 0 at the end of a debugging session.

g = The name of the register to be written as the destination copy. Valid register names are:

<table>
<thead>
<tr>
<th>AP</th>
<th>HSR R4</th>
<th>SBR5 T2</th>
<th>ATBBGR HSRBG</th>
<th>R5 SBR6 T3 ATBPSW</th>
</tr>
</thead>
<tbody>
<tr>
<td>ATBBGR</td>
<td>HSR R4</td>
<td>SBR5 T2</td>
<td>ATBBGR HSRBG</td>
<td>R5 SBR6 T3 ATBPSW</td>
</tr>
<tr>
<td>ISC</td>
<td>R6</td>
<td>SBR7 T4</td>
<td>ATBG</td>
<td>R6 SBR7 T4 ATBQ</td>
</tr>
<tr>
<td>ISS</td>
<td>R7</td>
<td>SCRATCH T5</td>
<td>ATBSAR</td>
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<tr>
<td>PA</td>
<td>R8</td>
<td>SCRATCH T5</td>
<td>ATBSAR</td>
<td>R8 SCRATCH T5 ATBSAR</td>
</tr>
<tr>
<td>PPR</td>
<td>R9</td>
<td>SDR T7</td>
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<td>R9 SDR T7 ATBSDR</td>
</tr>
<tr>
<td>PSW</td>
<td>RNULL SM TIMERS BGR</td>
<td>R9 SDR T7</td>
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<td></td>
</tr>
<tr>
<td>R0</td>
<td>RTC SP TOPIS CAR</td>
<td>R10 SBR1 SSRS UINT1 ERC</td>
<td>R10 SBR1 SSRS UINT1 ERC</td>
<td></td>
</tr>
<tr>
<td>R1</td>
<td>SBR0 SSRC UINT1 ERC</td>
<td>R11 SBR2 SYSBASE UINT2 FP</td>
<td>R11 SBR2 SYSBASE UINT2 FP</td>
<td></td>
</tr>
<tr>
<td>R10</td>
<td>SBR1 SSRS UINT1 ERC</td>
<td>R11 SBR2 SYSBASE UINT2 FP</td>
<td>R11 SBR2 SYSBASE UINT2 FP</td>
<td></td>
</tr>
<tr>
<td>R11</td>
<td>SBR2 SSRS UINT1 ERC</td>
<td>R2 SBR3 T0 UINT3 HG</td>
<td>R2 SBR3 T0 UINT3 HG</td>
<td></td>
</tr>
<tr>
<td>R2</td>
<td>SBR3 T0 UINT3 HG</td>
<td>R3 SBR4 T1 UINTE</td>
<td>R3 SBR4 T1 UINTE</td>
<td></td>
</tr>
</tbody>
</table>

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4. SYSTEM RESPONSE

?I = General syntax error. Valid value(s):
   - INCONSISTENT KEYWORDS (NL-OFF) = Negative length not allowed without OFF.
   - INVALID KEYWORD = ADDR is invalid in an immediate action.
   - RANGE ERROR (UVAR) = Invalid utility variable number was specified.
   - RANGE ERROR (L or NL) = Length specified is too long.
   - INPUT ERROR (OFF COUNT) = Too many offsets listed.

IP = In progress. The message has been added to the WHEN action list.

NG = No good. Valid value(s):
   - BAD REG NAME = A named register is not a valid destination.

PF = Printout follows. Followed by the COPY:ADDR output message.

RL = Retry later. The system is in an overload condition.

5. REFERENCES

Input Message(s):

COPY:PID
COPY:UID
DUMP:ADDR
LOAD:ADDR
WHEN:PID
WHEN:UID

Output Message(s):

COPY:ADDR
COPY:PID
COPY:REG
COPY:UID
COPY:UVAR
COPY: BKDISK

Software Release: 5E14 and later
Command Group: FHADM
Application: 5,3B
Type: Input

1. PURPOSE

Copies selected on-line disk partitions to tape in the load disk from tape (LDFT) format. The partitions must be
specified in a specification file. The default for the specification file name is "/etc/pdtspec". The full pathname must
be given for each partition, and only one partition can appear on each line.

If the system is booted on the primary root file system, for those partitions having backup partitions, the backup
partitions are written to tape. If the system is booted on the backup root file system, the primary disk partitions are
written to tape. Partitions without backup partitions are written from the primary partitions in both cases. Collectively
the partitions make up one logical volume. Format 1 copies the partitions to magnetic tape in single volume format.
Format 2 acknowledges the mounting of a new tape by the user and is only used in conjunction with Format 1.
Format 3 copies partitions to a digital audio tape (DAT) in multi-volume format. On a 3B21D with a DAT drive,
Format 3 is used to format the DAT with multiple logical volumes, provided the tape already contains the TOP file at
the beginning of the tape. (The TOP file is considered to be Session 1 Volume 0 and is written by the
COPY:TAPE-TOP input request.) One or more of these logical volumes form a backup session. A DAT may be
formatted with no more than nine backup sessions in sequential order. A backup session may contain any
combination of logical volumes meeting the following criterion: the logical volumes within a session must be ordered
such that any given volume identified by its logical volume number has a greater number than the previous volume
in the session. Refer to variable ‘f’ for the mapping of logical volume numbers to the volume names they represent.
By default, Format 3 will try to append logical volumes to the current end of data mark. There are optional
parameters for session and volume position to request that a logical volume be appended to the end of a specific
logical volume on the DAT for the purpose of overwriting the DAT from that point forward. This option is only valid
for overwriting logical volumes within the most recent backup session or for appending a logical volume for the next
session to the last logical volume of the specified positioning session.

2. FORMAT


PSESSE=g, PVOL=h [, FN="d"] [, MRG] [, EXT] [, SKP] [, NODMTMSG] [, COM];>

3. EXPLANATION OF MESSAGE

COM = This option must be used when creating a UNIX® RTR disk image that contains a common
volume table of contents (VTOC) (a VTOC containing both the 3B20D very large main memory
(VLMM) and 3B21D lboot partitions) or when creating other generic text tapes that is shared among
3B20D VLMM and 3B21D processors.

EXT = LDFT extended format tapes where the data blocks can be up to 6K bytes. This option cannot be
used on a Kennedy tape drive controlled by an UN134 PC.

MRG = Writes generic and database partitions as one generic sequence. With this option, the
specification file should contain both database and generic partitions. As the default, if the
specification file contains generic and database partitions, then two sequences will be created.

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**NOTE:** The default action is not supported for a multi-volume LDFT tape. The user must specify this option when the specification file contains both data base and generic partitions and input request Format 3 is being used.

**NODMTMSG** = Upon completion, the DISMOUNT TAPE AND LABEL message will not be printed.

**SKP** = Skip block usage bitmap and unused data blocks when writing file systems to tape. Use of this option is generally recommended, as it will conserve tape, if possible, and save time. Note, however, that tape reading and writing time may approximately double when this option is used with streaming tape drives (tape drives without mechanical tensioners or vacuum columns) in a worst-case data scattering scenario.

**a** = Pathname that specifies the boot disk.

**b** = Special device file name of the tape drive to be used. Refer to the ECD/SG manual.

**c** = Specifies the size of the tape, mounted in feet for 9-track devices, or meters for digital audio tapes (DATs). The acceptable range for a 9-track tape size is 600 to 2400 and the acceptable range for a DAT tape size is 30 to 90. The format requires entry of the tape size separated from the keyword by a space.

**d** = Specification file name that contains a set of partitions to be written to tape. The full pathname of the file is required.

**e** = Backup session number which is used to group one or more logical volumes together. The first backup session on tape must be numbered backup session 1 and increased sequentially thereafter with a maximum value of 9.

**f** = Logical volume number which identifies the group of partitions being written to tape. Valid value(s):

- 1 = AMTEXT.
- 2 = AMODD.
- 3 = SMTEXT.
- 4 = SMODD1.
- 5 = SMODD2.
- 6 = SMODD3.
- 7 = SMODD4.
- 8 = SMODD5.
- 9 = SMODD6.

**g** = Positioning backup session number which identifies a backup session on tape. The range of positioning backup session numbers is 1 to 9. This number is used along with the positioning logical volume number to locate a specific logical volume on tape to which to append the new logical volume. The absence of the positioning fields will result in the logical volume being appended to the current end of data mark on tape.

**h** = Positioning logical volume number. The range of positioning logical volume numbers is 0 to 9. Note that 0 is included in this range to allow for appending to the TOP file. Refer to the explanation of field ‘g’ for more information.

---

**4. SYSTEM RESPONSE**
NG = No good. A fatal error was encountered because the actual disk writer or the user
acknowledgement program (Format 2) could not be initiated. Try to initiate the request again. If the
process still fails, refer to the TECHNICAL ASSISTANCE portion of the INTRODUCTION section of
the Input Messages manual.

PF = Printout follows. Followed by the COPY:BKDISK output message.

?D = Error in the data field.

5. REFERENCES

Input Message(s):

COPY:TAPE-DATA
DUMP:BKTAPE
STOP:BKDISK

Output Message(s):

COPY:BKDISK

Other Manual(s):

Where 'x' is the release-specific version of the specified document.
235-600-30x   ECD/SG Manual
235-105-110   System Maintenance Requirements and Tools
COPY:BKTAPE

Software Release: 5E14 and later
Command Group: FHADM
Application: 5,3B
Type: Input

1. PURPOSE

Copies the contents of a multi-volume formatted digital audio tape (DAT) from a source DAT drive to a destination DAT drive. The default action is to make a complete copy of the source DAT. If the optional session number is specified, then the multi-volume formatted data is copied from the beginning of the specified session on the source DAT and appended to the end of the previous session on the destination DAT.

2. FORMAT

COPY:BKTAPE:SRC="a", DEST="b" [,SESS=c];

3. EXPLANATION OF MESSAGE

a = Device filename of the source DAT drive. Refer to the User Guidelines for definitions and examples of tape device names.

b = Device filename of the destination DAT drive. Refer to the User Guidelines for definitions and examples of tape device names.

c = Session number on the source DAT. This session is the starting point for the copy from the source DAT. Valid session numbers are 1 through 9.

4. SYSTEM RESPONSE

PF = Printout follows. Followed by a COPY:BKTAPE output message.

5. REFERENCES

Input Message(s):

COPY:BKDISK
DUMP:BKTAPE

Output Message(s):

COPY:BKTAPE
COPY:DIFF-SRC-MHD

Software Release: 5E14 and later
Command Group: FHADM
Application: 5,3B
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Compares disk partitions in order to detect differences. When a difference is found, data is copied from the source partition to the destination partition. The input arguments can specify disks or specific partitions. A disk partition may reside on the disk of its duplex mate, or on an arbitrary disk. Also, both partitions may reside on the same disk.

A difference generates a message which identifies the location of the difference. A copy will then be performed to correct the difference. The source argument is considered to contain the correct disk data. The mismatch messages provide an audit trail of corrected disk blocks. Only one COPY:DIFF-SRC-MHD or CMPR:MHD input message is allowed to run at one time. If more than one is attempted, the disk file controller (DFC) driver will deny the request and output an error code to that effect.

WARNING: Incorrect use of this input message can degrade system performance and result in disk data mutilation. This input message should not be used without expert technical assistance.

2. FORMAT

COPY:DIFF:SRC,MHD=a[,PTN={b|c&&d}]:DEST,{MATE|MHD=e}[,PTN={b|c&&d}] [,BLOCKS=i];

3. EXPLANATION OF MESSAGE

a = Source member number.
b = Partition number within a range of (0 to 63), or list of partitions (r1, r2, r3, ..., rn) where the list may include 64 entries. Default will be all but the FREE, UNASGN, DIAG, SWAP, and PDUMP partitions.
c = Lower limit in a range of partition numbers where a list of up to 32 ranges (p0-p1, p2-p3, p4-p5, ..., pm-pn) may be specified.
d = Upper limit in a range of partition numbers.
e = Destination member number.
i = An integer value indicating the size of the input/output (I/O) buffers as a multiple of disk blocks. The legal values are 1-256. If BLOCKS is not specified, the default number of 128 will be used.

4. SYSTEM RESPONSE

PF = Printout follows. Followed by the COPY:DIFF-SRC-MHD output message.

5. REFERENCES
Input Message(s):

CMPR:MHD
DUMP:MHD-BLOCK
DUMP:MHD-DEFECT
DUMP:MHD-VTOC
STOP:COPY-DIFF

Output Message(s):

COPY:DIFF-SRC-MHD

Other Manual(s):
235-105-110  System Maintenance Requirements and Tools
235-105-210  Routine Operations and Maintenance
235-105-220  Corrective Maintenance
COPY:ECD-TAPE

Software Release: 5E14 and later
Command Group: MAINT
Application: 5
Type: Input

1. PURPOSE

Requests that the equipment configuration database (ECD) and system generation (SG) database files be copied from the primary partition on disk to a magnetic tape. The database files are first converted to a readable format, and then written to tape.

This message is primarily used for preliminary and final office data administration (ODA) database preparation for ECD evolution as a part of retrofit procedure. Files copied to tape are ASCII (dumped) version of “root” ECD and SG in /database (/dev/db) file system.

2. FORMAT

COPY:ECD:TAPE[:TU=a][,UCL];

3. EXPLANATION OF MESSAGE

UCL = Start a new process even when one is already running. The running process will be terminated before the new one is started.

a = Tape drive unit (TU). 0, 1, L0 or L1. When 0 or 1 is specified, data will be written in high density if the tape drive is of high density type. Otherwise, data will be written in low density. When L0 (low density unit 0) or L1 is specified, data will be written in low density regardless of the tape drive type (high density tape drive can be used in either density mode). High density write will use much less tape. When TU is not specified, unit 0 is assumed.

4. SYSTEM RESPONSE

PF = Printout follows. Followed by the COPY:ECD-TAPE output message.

5. REFERENCES

Output Message(s):

COPY:ECD-TAPE

Other Manual(s):

Where (x) is the release-specific version of the specified manual.
235-105-24x Software Release Retrofit
235-105-34x Software Release Update
COPY:FSYS-CFILE

Software Release: 5E14 and later
Command Group: FHADM
Application: 5,3B
Type: Input

1. PURPOSE

Requests that a specific file be moved into a contiguous area.

2. FORMAT

COPY:FILESYS,CFILE,FN="a";

3. EXPLANATION OF MESSAGE

a     = Pathname of the file to be made contiguous.

4. SYSTEM RESPONSE

FF     = Printout follows. Followed by the COPY:FSYS-CFILE output message.

5. REFERENCES

Output Message(s):

COPY:FSYS-CFILE

Other Manual(s):
235-105-210   Routine Operations and Maintenance

MCC Display Page(s):
(CRAFT FM 01)
COPY:FSYS-FILE

Software Release: 5E14 and later
Command Group: FHADM
Application: 5,3B
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE
Requests that a specific file be copied to another file or directory.

WARNING: All existing data in the destination file will be destroyed.

2. FORMAT
COPY:FILESYS,FILE,SRC="a",DEST="b"[,{ERASE|NOERASE}];

3. EXPLANATION OF MESSAGE

ERASE = Sourcefile will be renamed (moved) to the destination indicated in variable 'b'. As a result, one file will exist.

NOERASE = Sourcefile will be copied to the destination indicated in variable 'b'. As a result, two files will exist.
NOERASE is the default value.

NOTE: If ERASE is specified, the source file will be renamed (moved) to the DEST indicated, that is, one file will exist. However, if NOERASE is used the SRC file will be copied to the DEST indicated and two files will exist. Failure to indicate either will default to NOERASE.

a = Pathname of the file to be copied. The pathname is a list of the names of each directory leading to the file, and ends with the name of the specific file. Each name begins with a slash, and the entire pathname is enclosed in quotation marks. For example, "/usr/a1/ssw/test" means that /usr/a1/ssw represents the list of directory names and /test represents the file name.

b = Pathname of the destination directory or file. 'b' cannot be identical to 'a'.

NOTE: If only a filename is given for DEST, the default directory is /cft/shl. Example:
COPY:FILESYS{:[DATA,]|,}FILE,SRC="/tmp/tst",DEST="tmtst";

4. SYSTEM RESPONSE

PF = Printout follows. Followed by the COPY:FSYS-FILE output message.

5. REFERENCES

Input Message(s):

ALW:FSYS-ACCESS
CLR:FSYS-FILE
COPY:PTN-ALL
Output Message(s):

ALW:FSYS-ACCESS
CLR:FSYS-FILE
COPY:FSYS-FILE
COPY:PTN-ALL

Other Manual(s):
235-105-210  Routine Operations and Maintenance

MCC Display Page(s):

(CRAFT FM 01)
COPY:LOG-TAPE

Software Release: 5E14 and later
Command Group: FHADM
Application: 5
Type: Input

1. PURPOSE

Requests that the office dependent data (ODD) recent change (RC) log file be copied from disk to magnetic tape.

Format 1 invokes a process that copies the named RC log file to tape. Format 2 restarts the process unconditionally. This format can be used to override the retry later - in progress (RL - IP) system response.

2. FORMAT

[1] COPY:LOG:TAPE,FN="a";


3. EXPLANATION OF MESSAGE

UCL = Indicates that the request is to be performed unconditionally, possibly interrupting a COPY:LOG-TAPE input message that is in progress.

a = Indicates the file name. The full pathnam, surrounded by double quotation marks, of the log file to be written to tape.

4. SYSTEM RESPONSE

PF = Printout follows. Followed by one or more COPY:LOG-TAPE output messages.

RL = Retry later. May also include:
    - IP = In progress. Process already running; needs UCL to proceed (refer to Format 2).

5. REFERENCES

Output Message(s):

COPY:LOG-TAPE

Other Manual(s):

Where (x) is the release-specific version of the specified manual.
235-105-24x Software Release Retrofit
COPY:ODD-TAPE

Software Release: 5E14 and later
Command Group: MAINT
Application: 5
Type: Input

1. PURPOSE

Requests that the system office dependent data (ODD) files be copied from disk to magnetic tape.

This message is primarily used for preliminary and final office data administration (ODA) database preparation for ODD evolution as a part of retrofit procedure. Files and partitions copied to tape are: disk ODD (/dev/no5dodd1 or /dev/no5dodd2); all the "*odd*.out" (* = any ASCII string) files in /no5odd/cpdata (/dev/no5aodd1 or 2), /no5odd/cidata (/dev/no5codd1 or 2) and /no5odd/imdataN (/dev/no5soddN--N represents a number in newer software release). The sides 1 and 2 are alternated for each ODD backup operation and whichever happens to be the official backup side will be copied to tape. Format 1 starts a process that copies the system ODD files to tape. TU option may be used to specify the tape drive unit and density. If TU option is not specified, unit 0 (side 0) is assumed and write density is determined by the type of the equipment. Format 2 restarts the process (after mounting a new tape) to write the second (and subsequent) tape. The tape must be mounted on the same unit as the first tape. Format 3 restarts the process at a mid-numbered tape. Format 4 kills the currently running process and starts a new process on the tape specified.

2. FORMAT

[1] COPY:ODD,TAPE[,ALL][,PRELIM][,TU=b][,UCL];
[2] COPY:ODD,TAPE,CONTINUE[,ALL];
[3] COPY:ODD,TAPE=a[,ALL][,TU=b],CONTINUE;
[4] COPY:ODD,TAPE=a[,ALL][,TU=b],CONTINUE,UCL;

3. EXPLANATION OF MESSAGE

ALL = Copy equipment configuration database (ECD) and system generation (SG) database on the same tape as the ODDs mentioned above. The ECD and SG copied here will be "undumped" (non-ASCII) format. If you have a high-density tape drive, using this keyword will reduce the number of tapes needed.

NOTE: Once the "ALL" option is used, you must continue using it in all subsequent COPY:ODD-TAPE input messages until you are finished.

PRELIM = Preliminary dump. This option is used when making the preliminary ODD/ECD dump for a software release retrofit. When the final dump tapes are made for the software release retrofit, this parameter should be omitted.

CONTINUE = Restart the process (after a new tape is mounted) to write the second (and subsequent) tape(s). The tape must be mounted on the same unit as the first tape. When the process is in waiting state, tape number 'a' is not needed and will be ignored if present. The waiting process produces tapes in sequential order and knows what tape number to produce.

When there is no waiting process (no other COPY:ODD-TAPE process is running), and the CONTINUE keyword is used, tape number 'a' is required to signal that you wish to start from a mid-numbered tape rather than starting from the first tape.
UCL  = Start a new process even when one is already running. The running process will be terminated before the new one is started. Tape drive unit 0 will be used.

a  = Tape number. The tape number should be specified only when you wish to start from a mid-numbered tape (such as, tape number 2) instead of sequentially starting from tape 1. Refer to the explanation for CONTINUE.

b  = Tape drive unit (TU). 0, 1, L0 or L1. When 0 or 1 is specified, data will be written in high density if the tape drive is of high density type. Otherwise, data will be written in low density. When L0 (low density unit 0) or L1 is specified, data will be written in low density regardless of the tape drive type (high density tape drive can be used in either density mode). High density write will use much less tape. When TU is not specified, unit 0 is assumed.

4. SYSTEM RESPONSE

PF  = Printout follows. Followed by the COPY:ODD-TAPE output message.

RL  = Retry later. Process is already running. Use Format 4 to proceed.

5. REFERENCES

Output Message(s):

COPY:ODD-TAPE

Other Manual(s):

Where (x) is the release-specific version of the specified manual.

235-105-24x   Software Release Retrofit
1. PURPOSE

Copies a specific file from an out-of-service (OOS) disk to an active system disk. This message is typically used for retrieving a file from a software backup maintained on a spare disk.

2. FORMAT

COPY:OOSDISK:MHD=a, SRC="b", DEST="c"[, PTN=d];

3. EXPLANATION OF MESSAGE

a = Specifies a non-active disk containing the source file (0-255).

b = Full pathname that specifies the file to be copied.

c = Pathname of the destination file.

d = Specifies partition number, where the source file resides in the OOS disk. If not specified, the partition corresponding to the file on the active disk will be used.

4. SYSTEM RESPONSE

PF = Printout follows. Followed by the COPY:OOSDISK output message.

5. REFERENCES

Output Message(s):

COPY:OOSDISK
COPY:PID

Software Release: 5E14 and later
Command Group: SFTUTIL
Application: 5,3B
Type: Input

1. PURPOSE

Requests that data be copied from virtual addresses in main memory to the administrative module (AM) generic access package (GRASP) utility variables.

Indirect addressing may be specified. The first listed offset is added to the value of the source address and the result is used as a virtual address of a location in main memory. The number of offsets specified defines the length of the chain of virtual addresses to be accessed in this way before accessing the desired range of source locations. For example, a single offset with value 0 uses the virtual address found in the source for the location to be copied.

2. FORMAT

COPY:PID=a,ADDR=b[,OFF=c][,L=d|,NL=e]:UVAR=f[:WORD];

3. EXPLANATION OF MESSAGE

WORD

= All addresses, offsets, and lengths are to be interpreted in words, including addresses derived in address chains. If this option is omitted, values given are assumed to be in bytes.

a

= Process ID (PID) of the target process.

b

= The starting virtual address for the source data in decimal, octal, or hexadecimal notation.

c

= A single offset or list of up to five offsets. Omission of the keyword implies no indirect addressing. Offsets are in bytes unless the WORD option is specified.

d

= The length of file to be copied in bytes unless the WORD option is specified. The maximum is 128 bytes or 32 words. The default is 1 byte or 1 word.

e

= The operation will use the locations beginning 'e' lower than the calculated address and ending at the address. The locations are used in ascending order.

f

= A GRASP utility variable (1-50), in decimal, to be written as the address of the destination of the copy. Utility variable values are reset to zero at the end of a debugging session.

4. SYSTEM RESPONSE

?I

= General syntax error. May also include:
- EXTRA KEYWORD (PID) = PID is invalid in a breakpoint.
- INCONSISTENT KEYWORDS (NL-OFF) = Negative length not allowed without OFF.
- INPUT ERROR (OFF COUNT) = Too many offsets listed.
- INVALID KEYWORD = Destination of ADDR or REG not valid outside of a WHEN action list.
- RANGE ERROR (L or NL) = Length specified is too long.
- RANGE ERROR (PID) = Process ID is out of range.
- RANGE ERROR (UVAR) = Invalid utility variable number was specified.
NG = No good. May also include:
BAD PID = The PID specified is for a process for which copies are not allowed.

PF = Printout follows. Followed by COPY:PID output message.

RL = Retry later. The system is in an overload condition or completing a previous OP:UMEM message.

5. REFERENCES

Input Message(s):

COPY:UID
DUMP:PID
LOAD:ADDR
LOAD:PMEM
LOAD:REG
LOAD:UVAR
OP:ST-PROC
OP:UMEM

Output Message(s):

COPY:ADDR
COPY:PID
COPY:REG
COPY:UID
COPY:UVAR
COPY:PTN-ALL

Software Release: 5E14 and later
Command Group: FHADM
Application: 5,3B
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Requests that one set of disk partitions be copied into a corresponding set of partitions.

A duplex disk configuration is a prerequisite for the input message to work properly. To ensure data consistency, one of the moving head disks (MHDs) of the duplex pair will be removed from service and the data from its copy of the source partition will be copied to the destination partition on the disk which is left active. After the copy is complete, the MHD which was removed from service will be restored.

WARNING: All existing data in the destination partitions will be destroyed.

2. FORMAT

COPY:PTN:DATA,ALL,SRC="a",DEST="b",[ACT];

3. EXPLANATION OF MESSAGE

ACT = Leaves the system in a duplex disk configuration as it copies the partitions.

a = Full pathname of a file that specifies a list of partitions, or a special device filename of a partition to be copied. Refer to the ECD/SG manual.

b = Full pathname of a file that contains the corresponding list of destination partitions, or the special device filename for a destination partition.

4. SYSTEM RESPONSE

PF = Printout follows. Followed by the COPY:PTN-ALL output message.

5. REFERENCES

Input Message(s):

CLR:FSYS-FILE

Output Message(s):

COPY:PTN-ALL

Other Manual(s):

Where 'x' is the release-specific version of the specified document.
COPY:REG

Software Release: 5E14 and later
Command Group: SFTUTIL
Application: 5,3B
Type: Input

1. PURPOSE

Requests that data be copied from the administrative module (AM) registers to virtual addresses in main memory and in registers as an action associated with a breakpoint.

Copies data from registers to the AM generic access package (GRASP) utility variables as either an immediate action or as an action associated with a breakpoint.

Indirect addressing may be specified. The first listed offset is added to the value of the source address and the result is used as a virtual address of a location in main memory. The number of offsets specified defines the length of the chain of virtual addresses to be accessed in this way before accessing the desired range of source locations. For example, a single offset with value 0 uses the virtual address found in the source for the location to be copied.

Format 1 is executed as an action associated with a breakpoint.

Format 2 is executed as either an immediate action or as an action associated with a breakpoint.

2. FORMAT

[1] COPY:REG=a[,OFF=b][,L=c]{:ADDR=e|:REG=g|:UVAR=f}[:WORD]!
[2] COPY:REG=a[,L=c]:UVAR=f[:WORD]{}|;}

3. EXPLANATION OF MESSAGE

WORD = All addresses and lengths are in terms of words. If this option is omitted, values given are assumed to be in bytes.

a = Specifies a register to be read as the source for the copy. Valid value(s):
   AP = Argument pointer AP.
   ATBBGR = Register used by the ATB miss routine to temporarily store the bi-directional gating register (BGR).
   ATBPSW = Register used by the ATB miss routine to temporarily store the program status word (PSW) register.
   ATBQ = Register used by the ATB miss routine to temporarily store the 'q' register.
   ATBSAR = Register used by the address translation buffer (ATB) miss routine to temporarily store the store address register (SAR) contents.
   ATBSAR = Register used by the ATB miss routine to temporarily store the store control register (SCR) contents.
   ATBSAR = Register used by the ATB miss routine to temporarily store the store data register (SDR) content.
   BGR = Bi-directional gating register.
   CAR = Channel address register.
   CDR = Channel data register.
   ERC = Error register (ER) clear.
   FP = Frame pointer FP.
   HG = Reserved register HG.
<table>
<thead>
<tr>
<th>Symbol</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>HSR</td>
<td>Hardware status register.</td>
</tr>
<tr>
<td>HSBGRC</td>
<td>Bi-directional gating control bits of the hardware status register (HSR).</td>
</tr>
<tr>
<td>IM</td>
<td>Interrupt mask register IM.</td>
</tr>
<tr>
<td>ISC</td>
<td>IS (interrupt source) register clear.</td>
</tr>
<tr>
<td>ISS</td>
<td>Interrupt source (IS) register set.</td>
</tr>
<tr>
<td>PA</td>
<td>Program address register.</td>
</tr>
<tr>
<td>PPR</td>
<td>Pulse point register.</td>
</tr>
<tr>
<td>PSW</td>
<td>Program status word.</td>
</tr>
<tr>
<td>R0</td>
<td>General register R0.</td>
</tr>
<tr>
<td>R1</td>
<td>General register R1.</td>
</tr>
<tr>
<td>R2</td>
<td>General register R2.</td>
</tr>
<tr>
<td>R3</td>
<td>General register R3.</td>
</tr>
<tr>
<td>R4</td>
<td>General register R4.</td>
</tr>
<tr>
<td>R5</td>
<td>General register R5.</td>
</tr>
<tr>
<td>R7</td>
<td>General register R7.</td>
</tr>
<tr>
<td>R8</td>
<td>General register R8.</td>
</tr>
<tr>
<td>R9</td>
<td>Argument pointer AP.</td>
</tr>
<tr>
<td>R10</td>
<td>Frame pointer FP.</td>
</tr>
<tr>
<td>R11</td>
<td>Stack pointer SP.</td>
</tr>
<tr>
<td>RNULL</td>
<td>Null register.</td>
</tr>
<tr>
<td>RTC</td>
<td>Real time clock.</td>
</tr>
<tr>
<td>SBR0</td>
<td>Segment base register SBR0.</td>
</tr>
<tr>
<td>SBR1</td>
<td>Segment base register SBR1.</td>
</tr>
<tr>
<td>SBR2</td>
<td>Segment base register SBR2.</td>
</tr>
<tr>
<td>SBR3</td>
<td>Segment base register SBR3.</td>
</tr>
<tr>
<td>SBR4</td>
<td>Segment base register SBR4.</td>
</tr>
<tr>
<td>SBR5</td>
<td>Segment base register SBR5.</td>
</tr>
<tr>
<td>SBR6</td>
<td>Segment base register SBR6.</td>
</tr>
<tr>
<td>SBR7</td>
<td>Segment base register SBR7.</td>
</tr>
<tr>
<td>SCRATCH0</td>
<td>JE group temp subgroup scratch register SCRATCH0.</td>
</tr>
<tr>
<td>SCRATCH1</td>
<td>JE group temp subgroup scratch register SCRATCH1.</td>
</tr>
<tr>
<td>SDR</td>
<td>Store data register.</td>
</tr>
<tr>
<td>SP</td>
<td>Stack pointer SP.</td>
</tr>
<tr>
<td>SSRC</td>
<td>System status register (SSR) clear.</td>
</tr>
<tr>
<td>SSR5</td>
<td>SSR set.</td>
</tr>
<tr>
<td>SYSBASE</td>
<td>Beginning address of UNIX® RTR Operating System tab.</td>
</tr>
<tr>
<td>T0</td>
<td>JE group temp subgroup scratch register T0.</td>
</tr>
<tr>
<td>T1</td>
<td>JE group temp subgroup scratch register T1.</td>
</tr>
<tr>
<td>T2</td>
<td>JE group temp subgroup scratch register T2.</td>
</tr>
<tr>
<td>T3</td>
<td>JE group temp subgroup scratch register T3.</td>
</tr>
<tr>
<td>T4</td>
<td>JE group temp subgroup scratch register T4.</td>
</tr>
<tr>
<td>T5</td>
<td>JE group temp subgroup scratch register T5.</td>
</tr>
<tr>
<td>T6</td>
<td>JE group temp subgroup scratch register T6.</td>
</tr>
<tr>
<td>T7</td>
<td>JE group temp subgroup scratch register T7.</td>
</tr>
<tr>
<td>TIMERS</td>
<td>Timing circuit.</td>
</tr>
<tr>
<td>TOPIS</td>
<td>Interrupt stack pointer.</td>
</tr>
<tr>
<td>UINT0</td>
<td>Error microinterrupt hander register UINT0.</td>
</tr>
<tr>
<td>UINT1</td>
<td>Error microinterrupt hander register UINT1.</td>
</tr>
<tr>
<td>UINT2</td>
<td>Error microinterrupt hander register UINT2.</td>
</tr>
<tr>
<td>UINT3</td>
<td>Error microinterrupt hander register UINT3.</td>
</tr>
</tbody>
</table>
UINTER = Shadow error register (uint_er) loaded during an error microinterrupt.

b = A single offset or list of up to five offsets. Omission of the keyword implies no indirect addressing. Offsets are in bytes unless the WORD option is specified. (Used as an action associated with a breakpoint.)

c = The length of the copy assumed to be in bytes unless the WORD option is specified. The maximum is 128 bytes or 32 words. The default for an omitted or zero length is 1.

e = Specifies the destination virtual address for the data in decimal, octal, or hexadecimal notation. (Used as an action associated with a breakpoint.)

f = Specifies a GRASP utility variable (1-50), in decimal, to be written as the destination copy. Utility variable values are reset to 0 at the end of a debugging session. (Can be used as an immediate action or associated with a breakpoint.)

g = Specifies the register to be written as the destination copy. (Used as an action associated with a breakpoint.) Valid value(s):

<table>
<thead>
<tr>
<th>AP</th>
<th>HSR</th>
<th>R3</th>
<th>SBR4</th>
<th>T2</th>
</tr>
</thead>
<tbody>
<tr>
<td>ATBG</td>
<td>HSRB</td>
<td>R4</td>
<td>SBR5</td>
<td>T3</td>
</tr>
<tr>
<td>ATB</td>
<td>IM</td>
<td>R5</td>
<td>SBR6</td>
<td>T4</td>
</tr>
<tr>
<td>ATB</td>
<td>ISC</td>
<td>R6</td>
<td>SBR7</td>
<td>T5</td>
</tr>
<tr>
<td>ATBS</td>
<td>ISS</td>
<td>R7</td>
<td>SCRATCH0</td>
<td>T6</td>
</tr>
<tr>
<td>ATBSC</td>
<td>PA</td>
<td>R8</td>
<td>SCRATCH1</td>
<td>T7</td>
</tr>
<tr>
<td>ATBS</td>
<td>PPR</td>
<td>R9</td>
<td>SDR</td>
<td>TIMERS</td>
</tr>
<tr>
<td>BGR</td>
<td>PSW</td>
<td>RNNULL</td>
<td>SP</td>
<td>TOPIS</td>
</tr>
<tr>
<td>CAR</td>
<td>R0</td>
<td>RTC</td>
<td>SSRC</td>
<td>UINT0</td>
</tr>
<tr>
<td>CDR</td>
<td>R1</td>
<td>SBR0</td>
<td>SSRS</td>
<td>UINT1</td>
</tr>
<tr>
<td>ERC</td>
<td>R10</td>
<td>SBR1</td>
<td>SYSBASE</td>
<td>UINT2</td>
</tr>
<tr>
<td>FP</td>
<td>R11</td>
<td>SBR2</td>
<td>T0</td>
<td>UINT3</td>
</tr>
<tr>
<td>HG</td>
<td>R2</td>
<td>SBR3</td>
<td>T1</td>
<td>UINTER</td>
</tr>
</tbody>
</table>

4. SYSTEM RESPONSE

?I = General syntax error. Valid value(s):
   - EXTRA KEYWORD (OFF) = Indirection not allowed except as action of a WHEN.
   - INCONSISTENT KEYWORDS (NL-OFF) = Negative length not allowed without OFF.
   - INVALID KEYWORD = Destination of ADDR or REG not valid outside of a WHEN action list.
   - RANGE ERROR (UVAR) = Invalid utility variable number was specified.
   - RANGE ERROR = Length specified is too long.

IP = In progress. The message has been added to the WHEN action list.

NG = No good. Valid value(s):
   - BAD REG NAME = A named register is not a valid source or destination.

PF = Printout follows. Followed by the COPY:REG output message.

RL = Retry later. The system is in an overload condition or completing a previous OP:UMEM message.

5. REFERENCES
Input Message(s):

DUMP:REG
LOAD:ADDR
LOAD:REG
LOAD:UVAR
OP:UMEM
WHEN:PID
WHEN:UID

Output Message(s):

COPY:ADDR
COPY:PID
COPY:REG
COPY:UID
COPY:UVAR
COPY:SPDISK

Software Release: 5E14 and later
Command Group: FHADM
Application: 5,3B
Type: Input

1. PURPOSE

Copies a specific partition, or a list of partitions, from one of the system disks to an active spare disk. This input message is typically used for generating a backup copy of the software on a system disk. The system disk pair must be duplexed to use this input message.

2. FORMAT

COPY:SPDISK:SRC="a",DEST="b";

3. EXPLANATION OF MESSAGE

a = Full pathname of a file that contains a list of partitions, or a special device file name of a partition, to be copied. Refer to the ECD/SG manual.

b = Filename for the corresponding list of destination partitions, or the special device filename for a destination partition.

4. SYSTEM RESPONSE

PF = Printout follows. Followed by the COPY:SPDISK output message.

5. REFERENCES

Output Message(s):

COPY:SPDISK

Other Manual(s):

Where 'x' is the release-specific version of the specified document.

235-600-30x ECD/SG
COPY:TAPE-DATA

Software Release: 5E14 and later
Command Group: FHADM
Application: 5,3B
Type: Input

1. PURPOSE

Copies a task oriented practice (TOP) file(s) from disk to tape. A TOP file contains writable microcode and the load disk from tape (LDFT) program used for a "deadstart." If the COM option is specified, the very large main memory (VLMM) TOP file and 3B21D TOP file are copied from disk to tape, strictly in that order. Otherwise, a hardware-platform-specific TOP file is copied. For example, if the current hardware platform is VLMM, /etc/topfile64 or /etc/topfile is copied to tape.

2. FORMAT

COPY:TAPE:DATA,TOP,TD="a",[COM];

3. EXPLANATION OF MESSAGE

COM = Option used to create a common TOP tape which consists of both the VLMM TOP file and the 3B21D TOP file.

NOTE: The input message with the COM option does not copy the standard main memory (SMM) or extended main memory (EMM) TOP file. If this option is not specified, the TOP file copied to tape will be the one for the current hardware platform. Refer to the example in the PURPOSE section.

a = Tape special device file name. Refer to the User Guidelines, for definition and examples of tape device names.

4. SYSTEM RESPONSE

PF Printout follows.

5. REFERENCES
COPY:TAPE-EMERDMP

Software Release: 5E14 and later
Command Group: FHADM
Application: 5,3B
Type: Input

1. PURPOSE

Copies data from the emergency dump partition on a disk to a magnetic tape.

NOTE: If the resulting tape is to be read on a UNIX® system, it must be read using the 'dd' input message.

2. FORMAT

COPY:TAPE,EMERDMP,TD="a";

3. EXPLANATION OF MESSAGE


4. SYSTEM RESPONSE

PF = Printout follows. Followed by the COPY:TAPE-EMERDMP output message.

5. REFERENCES

Input Message(s):

CLR:EMERDMP
OP:EMERSTAT
OP:ST-FILESYS

Output Message(s):

COPY:TAPE-EMERDMP
REPT:EMER-DUMP

Other Manual(s):
235-105-110  System Maintenance Requirements and Tools
235-105-210  Routine Operation and Maintenance
235-105-220  Corrective Maintenance

MCC Display Page(s):

(CRAFT FM 01)
COPY:TAPE-IN

Software Release: 5E14 and later
Command Group: FHADM
Application: 5,3B
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Copies files from a magnetic tape containing full or relative pathnames and header information, and places them in their respective directories. This input message can also print a table of contents of the tape.

WARNING: If the full path was specified in the COPY:TAPE-OUT input message, directory information is retained and the file will be placed in the same directory it was copied from, overwriting any existing version.

NOTE: If the tape to be read was written on a UNIX® system, it must have been written using the cpio message with the -c option.

2. FORMAT

COPY:TAPE,IN,TD="a"[,TOC] | [,BSDIR="b"];

3. EXPLANATION OF MESSAGE

TOC = Table of contents. Prints a list of the files on the tape with their status information. No files are created.

a = Tape special device file name. Refer to Table 3 in the User Guidelines of the Input Messages manual.

b = Pathname of the base directory into which the files on the tape will be copied. Refer to the User Guidelines of the Input Messages manual for definitions of pathname and directory.

NOTE: If the relative path was specified in the COPY:TAPE-OUT input message, the default base directory is /cft/shl/cmds. Use the BSDIR option to specify an alternate base directory.

Remember, the BSDIR option does not apply if the full pathname was specified in the COPY:TAPE-OUT input message. Use the TOC option of COPY:TAPE-IN to determine how a file or list of files, were copied to tape, whether by relative pathnames or by full pathnames.

4. SYSTEM RESPONSE

PF = Printout follows. Followed by the COPY:TAPE-IN output message.

5. REFERENCES

Input Message(s):

COPY:TAPE-OUT
Output Message(s):

COPY:TAPE-IN
COPY:TAPE-OUT

Other Manual(s):
235-105-210   Routine Operations and Maintenance

MCC Display Page(s):

(CRAFT FM 01)
COPY:TAPE-OUT

Software Release: 5E14 and later
Command Group: FHADM
Application: 5,3B
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Copies one or more files to a magnetic tape, along with full or relative pathnames and header (status) information.

Format 1 is used to copy one or more files with full pathnames. Refer to the User Guidelines of the Input Messages manual for a definition of full pathnames.

WARNING: Use extreme caution when invoking this input message with full pathnames. Reading a tape which contains full pathnames may destroy existing data.

Format 2 is used to copy one or more files with relative pathnames. Refer to the User Guidelines of the Input Messages manual for a definition of relative pathnames.

NOTE: If the resulting tape is to be read on a UNIX® system, it must be read using the 'cpio' input message with the -c options.

2. FORMAT

[1] COPY:TAPE,OUT,TD="a"{,FN="b"|,FLIST="c"};
[2] COPY:TAPE,OUT,TD="a"{,FN="d"|,FLIST="e"},BSDIR="f";

3. EXPLANATION OF MESSAGE

a = Tape special device file name. Refer to Table 3 in the User Guidelines of the Input Messages manual for examples of tape device names.

b = Full pathname of the single file to be written to the tape.

c = Pathname of a file that contains a list of full pathnames of the files to be written to the tape. Used if two or more files are to be written.

d = Relative pathname of the single file to be written to the tape. Specify the base directory with the BSDIR option.

e = Pathname of a relative file that contains a list of pathnames of the files to be written to the tape. Used if two or more files are to be written. Specify the base directory with the BSDIR option.

f = Pathname of the base directory where the file to be copied to tape is located. Relative pathnames are relative to this directory.

4. SYSTEM RESPONSE

PF = Printout follows. Followed by the COPY:TAPE-OUT output message.
5. REFERENCES

Input Message(s):

COPY: TAPE-IN

Output Message(s):

COPY: TAPE-IN
COPY: TAPE-OUT

Other Manual(s):
235-105-210  Routine Operations and Maintenance

MCC Display Page(s):

(CRAFT FM 01)
COPY:TAPE-TEST

Software Release: 5E14 and later
Command Group: FHADM
Application: 5,3B
Type: Input

1. PURPOSE

Writes the diagnostic test tape header block onto a magnetic tape. A demand diagnostic phase for the tape unit verifies the tape has this header block (in low density) before using the tape for testing.

2. FORMAT

COPY:TAPE,TEST,TD="a";

3. EXPLANATION OF MESSAGE

a = Tape special device file name. Select low density and rewind. The diagnostic phase will not accept the tape if the header block is written in high density. Refer to the Summary of Pathnames table in the User Guidelines of the Input Messages manual.

4. SYSTEM RESPONSE

PF = Printout follows. Followed by the COPY:TAPE-TEST output message.

5. REFERENCES

Output Message(s):

COPY:TAPE-TEST

Other Manual(s):
235-105-210 Routine Operations and Maintenance

MCC Display Page(s):
(CRAFT FM 01)
COPY:TAPE-TOP

Software Release: 5E14 and later
Command Group: N/A
Application: 5,3B
Type: Input

1. PURPOSE
Copies a tape-only program (TOP) file from disk to tape. A TOP file contains writable microcode and the load disk from tape (LDFT) program used for a "deadstart."

2. FORMAT
COPY:TAPE:TOP,TD "a",[COM]!

3. EXPLANATION OF MESSAGE
COM = Option used to create a common TOP tape consisting of both the VLMM TOP file and the 3B21D TOP file.

This option does not copy the standard main memory (SMM) or extended main memory (EMM) TOP file.

If the COM option is specified, the very large main memory (VLMM) TOP file and the 3B21D TOP file are copied from disk to tape, strictly in that order.

If this option is not specified, the TOP file copied to tape will be the one for the current hardware platform. For example, if the current hardware platform is VLMM, /etc/topfile64 or /etc/topfile is copied to tape.

a = Tape special device file name.

4. SYSTEM RESPONSE
PP = Printout follows. Followed by the COPY:TAPE-TOP output message.

5. REFERENCES
Output Message(s):
COPY:TAPE-TOP
1. PURPOSE

Requests that data be copied from virtual addresses in main memory to administrative module (AM) generic access package (GRASP) utility variables as an immediate action.

Indirect addressing may be specified. The first listed offset is added to the value of the source address and the result is used as a virtual address of a location in main memory. The number of offsets specified defines the length of the chain of virtual addresses to be accessed in this way before accessing the desired range of source locations. For example, a single offset with value 0 uses the virtual address found in the source for the location to be copied.

2. FORMAT

COPY:UID=a,ADDR=b[,OFF=c][,L=d|,NL=e]:UVAR=f[:WORD];

3. EXPLANATION OF MESSAGE

WORD = All addresses, offsets, and lengths are to be interpreted in words, including addresses derived in address chains. If this option is omitted, values given are assumed to be in bytes.

a = The utility ID (UID) of the process from which the source data will be copied.

b = The starting virtual address for the data in decimal, octal, or hexadecimal notation.

c = A single offset or list of up to five offsets. Omission of the keyword implies no indirect addressing. Offsets are in bytes unless the WORD option is specified.

d = The length of the copy in bytes unless the WORD option is specified. The maximum is 128 bytes or 32 words. The default is 1 byte or 1 word.

e = The operation will use the locations beginning 'e' lower than the calculated address and ending at the address. The locations are used in ascending order.

f = A GRASP utility variable (1-50), in decimal, to be written as the destination copy. Utility variable values are reset to 0 at the end of a debugging session.

4. SYSTEM RESPONSE

?I = General syntax error. May also include:
- EXTRA KEYWORD (UID) = UID is not valid in a WHEN action list.
- EXTRA KEYWORD (UID) = UID is invalid in a breakpoint.
- INCONSISTENT KEYWORDS (NL-OFF) = Negative length not allowed without OFF.
- INVALID KEYWORD = Destination of ADDR or REG not valid outside of a WHEN action list.
- RANGE ERROR (UID) = Utility ID is out of range.
- RANGE ERROR (UVAR) = Invalid utility variable number was specified.
- RANGE ERROR (L or NL) = Length specified is too long.
- INPUT ERROR (OFF COUNT) = Too many offsets listed.
NG = No good. May also include:
- BAD UID = The UID specified is for a process for which copies are not allowed.

PF = Printout follows. Followed by the COPY:UID output message.

RL = Retry later. The system is in an overload condition or completing a previous OP:UMEM message.

5. REFERENCES

Input Message(s):

COPY:PID
DUMP:UID
LOAD:UVAR
OP:UMEM

Output Message(s):

COPY:ADDR
COPY:PID
COPY:REG
COPY:UID
COPY:UVAR
COPY:UT-CMP-A

Software Release: 5E14 only
Command Group: SFTUTIL
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Requests that a value be copied into an address, register, global variable (specified by name or symbol index), or utility variable of the communications module processor (CMP), and optionally perform any of the following operations:

<table>
<thead>
<tr>
<th>To perform:</th>
<th>Use:</th>
</tr>
</thead>
<tbody>
<tr>
<td>increment operation</td>
<td>target(1) = value(2) oper=plus value(3)</td>
</tr>
<tr>
<td>decrement operation</td>
<td>target(1) = value(2) oper=minus value(3)</td>
</tr>
<tr>
<td>multiply operation</td>
<td>target(1) = value(2) oper=mult value(3)</td>
</tr>
<tr>
<td>divide operation</td>
<td>target(1) = value(2) oper=div value(3)</td>
</tr>
<tr>
<td>logical AND operation</td>
<td>target(1) = value(2) oper=and value(3)</td>
</tr>
<tr>
<td>logical OR operation</td>
<td>target(1) = value(2) oper=or value(3)</td>
</tr>
<tr>
<td>logical XOR operation</td>
<td>target(1) = value(2) oper=xor value(3)</td>
</tr>
<tr>
<td>logical shift left operation</td>
<td>target(1) = value(2) oper=shl value(3)</td>
</tr>
<tr>
<td>logical shift right operation</td>
<td>target(1) = value(2) oper=shr value(3)</td>
</tr>
<tr>
<td>invert operation</td>
<td>target(1) = value(2) oper=invert</td>
</tr>
</tbody>
</table>

This message may be used together with any of the other CMP generic utility input messages (refer to the input messages listed in the REFERENCES section).

If this message is used together with other utility messages, the END:UT-CMP input message may be used to signal the end of the series of messages.

WARNING: The user is responsible for any effects on system operation that result from the use of this input message. Know the effects of the message before using it.

2. FORMAT

COPY:UT-CMP=a,(MATE|PRIM),{ADDR1=b|REG1=c|UVAR1=d|GVAR1="e"|SYMIDX1=f} [,L1=g] [,INDIR1=h] [,OFF1=i[-1[-1[-1]]]],EQ[,EA2], {ADDR2=j|REG2=k|UVAR2=l|GVAR2="m"|SYMIDX2=n|VAL2=o} [,L2=p] [,INDIR2=q] [,OFF2=r[-1[-1]]] [,oper=s] [,EA3] [,ADDR3=t|REG3=u|UVAR3=v|GVAR3="w"|SYMIDX3=x|VAL3=y] [,L3=z] [,INDIR3=a1] [,OFF3=b1[-b1[-b1[-b1]]]]!|;}

3. EXPLANATION OF MESSAGE

Note: Variables 'b' through 'i' are field one of the copy input message, this field is also described as the target field.

Note: Variables 'j' through 'r' are field two of the copy input message, this field is also described as the value(2) field. This field provides the source data for the target. This field can be modified by using one of the arithmetic operators together with the third field of the copy input message.

Note: Variables 's' through 'b1' are field three of the copy input message, this field is also described as the
value(3) field. This field is used together with the arithmetic operator to modify field two of the copy input message.

EA2 = The value that is to be copied is the determined effective address of the message instead of the contents of the address for the second part of the input message.

EA3 = The value that is to be copied is the determined effective address of the message instead of the contents of the address for the third part of the input message.

MATE = Execute this input message on the standby CMP.

PRIM = Execute this input message on the active CMP.

a = CMP number.

b = Address that the value is copied into.

c = Name of register (address registers A0-A7, data registers D0-D7, program counter PC, or status register SR) that the value is copied into.

Note: This option of this input message can only be used as part of a generic utilities WHEN input message clause.

d = Utility variable (0-14) that the value is copied into.

e = Symbolic name of the global variable that the value is copied into. The name is entered as a string of up to 15 characters, enclosed in double quotation marks. If the symbol name is greater than 15 characters the symbol index number 'r' must be used to enter this input message using symbolic access. The global variable's symbol index number can be determined by using the DUMP:UT-SYMID input message.

f = Symbol index number of global variable. The symbol index can be determined for this processor by using the DUMP:UT-SYMID input message.

g = Length of the value to be used for the target part of the message (0-4). Default is 4 bytes for UVAR1 and REG1 unless REG1 is set to the status register where the default is 2 bytes. Default is 1 byte for ADDR1, GVAR1 and SYMIDX1.

h = Level of indirection (0-3) for the first part of the message. Default is 0.

i = The offsets, in bytes, at each level of indirection. They can range from 0-65535. However, offsets greater than 32767 will be treated as negative offsets. One offset can be specified per each level of indirection. Maximum number of offsets is 3. Default is 0.

j = Address that the value is copied from. This value can be modified by using one of the arithmetic operators together with any one of the addressing modes (or value) contained in the third field of the copy input message.

k = Name of register (address registers A0-A7, data registers D0-D7, program counter PC, or status register SR) that the value is copied from. This value can be modified by using one of the arithmetic operators together with any one of the addressing modes (or value) contained in the third field of the copy input message.

Note: This option of this input message can only be used as part of a generic utilities WHEN input message clause.
1 = Utility variable (0-14) that the value is copied from. This value can be modified by using one of the arithmetic operators together with any one of the addressing modes (or value) contained in the third field of the copy input message.

m = Symbolic name of the global variable that the value is to be copied from. The name is entered as a string of up to 15 characters, enclosed in double quotation marks. This value can be modified by using one of the arithmetic operators together with any one of the addressing modes (or value) contained in the third field of this input message. If the symbol name is greater than 15 characters the symbol index number ‘n’ must be used to enter this input message using symbolic access. The global variable’s symbol index number can be determined by using the DUMP:UT-SYMID input message.

n = Symbol index number of global variable. The symbol index can be determined for this processor by using the DUMP:UT-SYMID input message. This value can be modified by using one of the arithmetic operators together with any one of the addressing modes (or value) contained in the third field of this input message.

o = Value to be copied. This value can be modified by using one of the arithmetic operators together with any one of the addressing modes (or value) contained in the third field of the copy input message.

p = Length of the value to be used in the value(2) part of the message (0-4). Default is 4 bytes for UVAR2, VAL2, and REG2 unless REG2 is the status register where the default is 2 bytes; 1 byte for ADDR2, GVAR2 and SYMIDX2. If EA2 is specified, the length is set to 4 bytes.

q = Level of indirection (0-3) for the second part of the message. Default is 0.

r = The offsets, in bytes, at each level of indirection. They can range from 0-65535. However, offsets greater than 32767 will be treated as negative offsets. One offset can be specified per each level of indirection. Maximum number of offsets is 3. Default is 0.

s = Legal operator. Valid value(s):
- `and` = Performs logical “and” of the value in field 2 with the value of field 3.
- `div` = Divides the value of field 2 by the value of field 3.
- `invert` = Performs a logical binary inversion of the value in field 2.
- `minus` = Subtracts the value of field 3 from the value of field 2.
- `mult` = Multiplies the value of field 3 with the value of field 2.
- `or` = Performs logical “or” of the value in field 2 with the value of field 3.
- `plus` = Adds the value of field 3 to the value of field 2.
- `shl` = Shifts left the value in field 2 by the value of field 3.
- `shr` = Shifts right the value in field 2 by the value of field 3.
- `xor` = Performs logical “exclusive or” of the value in field 2 with the value of field 3.

t = An address whose contents may be used with one of the arithmetic operators to modify the addressing mode (or value) in the second field of the copy input message.

u = Name of register (address registers A0-A7, data registers D0-D7, program counter PC, or status register SR) whose contents may be used with one of the arithmetic operators to modify the addressing mode (or value) in the second field of the copy input message.

Note: This option of this input message can only be used as part of a generic utilities WHEN input message clause.

v = Utility variable (0-14) whose contents may be used with one of the arithmetic operators to modify
the addressing mode (or value) in the second field of the copy input message.

\( w \) = Symbolic name of the global variable whose contents may be used with one of the arithmetic operators to modify the addressing mode (or value) in the second field of this input message. The name is entered as a string of up to 15 characters, enclosed in double quotation marks. If the symbol name is greater than 15 characters the symbol index number ‘\( x \)’ must be used to enter this input message using symbolic access. The global variable’s symbol index number can be determined by using the DUMP:UT-SYMID input message.

\( x \) = Symbol index number of global variable. The symbol index can be determined for this processor by using the DUMP:UT-SYMID input message.

\( y \) = Value that may be used with one of the arithmetic operators to modify the addressing mode (or value) in the second field of the copy input message.

\( z \) = Length of the value to be used in the value (3) part of the message (0-4). Default is 4 bytes for UVAR3, VAL3, and REG3 unless REG3 is the status register where the default is 2 bytes; 1 byte for ADDR3, GVAR3 and SYMIDX3. If EA3 is specified, the length is always set to 4 bytes.

\( a^1 \) = Level of the indirection (0-3) for the third field of copy input message. Default is 0.

\( b^1 \) = The offsets, in bytes, at each level of indirection. They can range from 0-65535. However, offsets greater than 32767 will be treated as negative offsets. One offset can be specified per each level of indirection. Maximum number of offsets is 3. Default is 0.

4. SYSTEM RESPONSE

Refer to the APP:UT-IM-REASON appendix in the Appendixes section of the Input Messages manual.

5. REFERENCES

Input Message(s):

ALW:UT-CMP
CLR:UT-CMP
DUMP:UT-CMP
DUMP:UT-SYMID
ELSE:UT-CMP
END:UT-CMP
EXC:UT-CMP
IF:UT-CMP
IF:UT-CMP-ENDIF
INH:UT-CMP
LOAD:UT-CMP
OP:UT-CMP
WHEN:UT-CMP

Output Message(s):

COPY:UT-CMP

Input Appendix(es):
Output Appendix(es):

APP: UT-IM-REASON

Other Manual(s):
235-105-110  System Maintenance Requirements and Tools
235-600-400  Audits
COPY: UT-CMP-B
Software Release: 5E15 and later
Command Group: SFTUTIL
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Requests that a value be copied into an address, register, global variable (specified by name or symbol index), or utility variable of the communications module processor (CMP), and optionally perform any of the following operations:

<table>
<thead>
<tr>
<th>To perform:</th>
<th>Use:</th>
</tr>
</thead>
<tbody>
<tr>
<td>increment operation</td>
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</tr>
<tr>
<td>decrement operation</td>
<td>target(1) = value(2) oper=minus value(3)</td>
</tr>
<tr>
<td>multiply operation</td>
<td>target(1) = value(2) oper=mult value(3)</td>
</tr>
<tr>
<td>divide operation</td>
<td>target(1) = value(2) oper=div value(3)</td>
</tr>
<tr>
<td>logical AND operation</td>
<td>target(1) = value(2) oper=and value(3)</td>
</tr>
<tr>
<td>logical OR operation</td>
<td>target(1) = value(2) oper=or value(3)</td>
</tr>
<tr>
<td>logical XOR operation</td>
<td>target(1) = value(2) oper=xor value(3)</td>
</tr>
<tr>
<td>logical shift left operation</td>
<td>target(1) = value(2) oper=shl value(3)</td>
</tr>
<tr>
<td>logical shift right operation</td>
<td>target(1) = value(2) oper=shr value(3)</td>
</tr>
<tr>
<td>invert operation</td>
<td>target(1) = value(2) oper=invert</td>
</tr>
</tbody>
</table>

This message may be used together with any of the other CMP generic utility input messages (refer to the input messages listed in the REFERENCES section).

If this message is used together with other utility messages, the END:UT-CMP input message may be used to signal the end of the series of messages.

WARNING: The user is responsible for any effects on system operation that result from the use of this input message. Know the effects of the message before using it.

2. FORMAT

COPY: UT-CMP=a,(MATE|PRIM),{ADDR1=b|REG1=c|UVAR1=d|GVAR1="e"|SYMIDX1=f}[,...,L1=q][,INDIR1=h][,OFF1=i[-i[-i]]],EQ[,EA2],{ADDR2=j|REG2=k|UVAR2=l|GVAR2="m"|SYMIDX2=n|VAL2=o}[,...,L2=p][,...,INDIR2=q][,...,OFF2=r[-r[-r]]][,...,oper=s][,...,EA3][,...,ADDR3=t|REG3=u|UVAR3=v|GVAR3="w"|SYMIDX3=x|VAL3=y][,...,L3=z][,...,INDIR3=a1][,...,OFF3=b1[-b1[-b1]]]();

3. EXPLANATION OF MESSAGE

Note: Variables 'b' through 'i' are field one of the copy input message, this field is also described as the target field.

Note: Variables 'j' through 'z' are field two of the copy input message, this field is also described as the value(2) field. This field provides the source data for the target. This field can be modified by using one of the arithmetic operators together with the third field of the copy input message.

Note: Variables 's' through 'b' are field three of the copy input message, this field is also described as the value(3) field. This field is used together with the arithmetic operator to modify field two of the copy
input message.

EA2 = The value that is to be copied is the determined effective address of the message instead of the contents of the address for the second part of the input message.

EA3 = The value that is to be copied is the determined effective address of the message instead of the contents of the address for the third part of the input message.

MATE = Execute this input message on the standby CMP.

PRIM = Execute this input message on the active CMP.

a = CMP number.

b = Address that the value is copied into.

c = Name of register (address registers A0-A7, data registers D0-D7, program counter PC, or status register SR) that the value is copied into. Name of a specific register whose data is to be dumped. The following registers can be used:

1. If switch CM complex is a Model 3, the registers are general purpose registers GPR0, GPR2-GPR31, SP [which is GPR1], the link register LR, program counter PC, count register CTR, condition register CR, machine state register MSR, integer exception XER, external interrupt mask register EIMR (from module processor), and the system management interrupt mask register SMIMR (from module processor).

2. If switch CM complex is Model 2 or earlier, the registers are address registers A0-A5, A6 [which is the frame pointer FP], A7 [which is the stack pointer SP], data registers D0-D7, program counter PC, or status register SR.

Note: This option of this input message can only be used as part of a generic utilities WHEN input message clause.

d = Utility variable (0-14) that the value is copied into.

e = Symbolic name of the global variable that the value is copied into. The name is entered as a string of up to 15 characters, enclosed in double quotation marks. If the symbol name is greater than 15 characters the symbol index number ‘<‘ must be used to enter this input message using symbolic access. The global variable’s symbol index number can be determined by using the DUMP:UT-SYMID input message.

f = Symbol index number of global variable. The symbol index can be determined for this processor by using the DUMP:UT-SYMID input message.

g = Length of the value to be used for the target part of the message (0-4). Default is 4 bytes for UVAR1 and REG1 unless REG1 is set to the status register where the default is 2 bytes. Default is 1 byte for ADDR1, GVAR1 and SYMIDX1.

h = Level of indirection (0-3) for the first part of the message. Default is 0.

i = The offsets, in bytes, at each level of indirection. They can range from 0-65535. However, offsets greater than 32767 will be treated as negative offsets. One offset can be specified per each level of indirection. Maximum number of offsets is 3. Default is 0.

j = Address that the value is copied from. This value can be modified by using one of the arithmetic operators together with any one of the addressing modes (or value) contained in the third field of the
copy input message.

\( k \) = Name of register (address registers A0-A7, data registers D0-D7, program counter PC, or status register SR) that the value is copied from. Name of a specific register that the value is copied from. This value can be modified by using one of the arithmetic operators together with any one of the addressing modes (or value) contained in the third field of the copy input message.

Note: This option of this input message can only be used as part of a generic utilities WHEN input message clause.

\( l \) = Utility variable (0-14) that the value is copied from. This value can be modified by using one of the arithmetic operators together with any one of the addressing modes (or value) contained in the third field of the copy input message.

\( m \) = Symbolic name of the global variable that the value is to be copied from. The name is entered as a string of up to 15 characters, enclosed in double quotation marks. This value can be modified by using one of the arithmetic operators together with any one of the addressing modes (or value) contained in the third field of this input message. If the symbol name is greater than 15 characters the symbol index number 'n' must be used to enter this input message using symbolic access. The global variable's symbol index number can be determined by using the DUMP:UT-SYMID input message.

\( n \) = Symbol index number of global variable. The symbol index can be determined for this processor by using the DUMP:UT-SYMID input message. This value can be modified by using one of the arithmetic operators together with any one of the addressing modes (or value) contained in the third field of this input message.

\( o \) = Value to be copied. This value can be modified by using one of the arithmetic operators together with any one of the addressing modes (or value) contained in the third field of the copy input message.

\( p \) = Length of the value to be used in the value(2) part of the message (0-4). Default is 4 bytes for UVAR2, VAL2, and REG2 unless REG2 is the status register where the default is 2 bytes; 1 byte for ADDR2, GVAR2 and SYMIDX2. If EA2 is specified, the length is set to 4 bytes.

\( q \) = Level of indirection (0-3) for the second part of the message. Default is 0.

\( r \) = The offsets, in bytes, at each level of indirection. They can range from 0-65535. However, offsets greater than 32767 will be treated as negative offsets. One offset can be specified per each level of indirection. Maximum number of offsets is 3. Default is 0.

\( s \) = Legal operator. Valid value(s):

- **and** = Performs logical "and" of the value in field 2 with the value of field 3.
- **div** = Divides the value of field 2 by the value of field 3.
- **invert** = Performs a logical binary inversion of the value in field 2.
- **minus** = Subtracts the value of field 3 from the value of field 2.
- **mult** = Multiplies the value of field 3 with the value of field 2.
- **or** = Performs logical "or" of the value in field 2 with the value of field 3.
- **plus** = Adds the value of field 3 to the value of field 2.
- **shl** = Shifts left the value in field 2 by the value of field 3.
- **shr** = Shifts right the value in field 2 by the value of field 3.
- **xor** = Performs logical "exclusive or" of the value in field 2 with the value of field 3.
t = An address whose contents may be used with one of the arithmetic operators to modify the addressing mode (or value) in the second field of the copy input message.

u = Name of register (address registers A0-A7, data registers D0-D7, program counter PC, or status register SR) whose contents may be used with one of the arithmetic operators to modify the addressing mode (or value) in the second field of the copy input message. Name of register whose contents may be used with one of the arithmetic operators to modify the addressing mode (or value) in the second field of the copy command. The following registers can be used:
1 If switch CM complex is a Model 3, the registers are (general purpose registers GPR0, GPR2-GPR31, SP [which is GPR1], the link register LR, program counter PC, count register CTR, condition register CR, machine state register MSR, XER, external interrupt mask register EIMR, and the system management interrupt mask register SMIMR).
2 If switch CM complex is Model 2 or earlier, the registers are (address registers A0-A7, data registers D0-D7, program counter PC, or status register SR).

Note: This option of this input message can only be used as part of a generic utilities WHEN input message clause.

v = Utility variable (0-14) whose contents may be used with one of the arithmetic operators to modify the addressing mode (or value) in the second field of the copy input message.

w = Symbolic name of the global variable whose contents may be used with one of the arithmetic operators to modify the addressing mode (or value) in the second field of this input message. The name is entered as a string of up to 15 characters, enclosed in double quotation marks. If the symbol name is greater than 15 characters the symbol index number 'x' must be used to enter this input message using symbolic access. The global variable's symbol index number can be determined by using the DUMP:UT-SYMID input message.

x = Symbol index number of global variable. The symbol index can be determined for this processor by using the DUMP:UT-SYMID input message.

y = Value that may be used with one of the arithmetic operators to modify the addressing mode (or value) in the second field of the copy input message.

z = Length of the value to be used in the value (3) part of the message (0-4). Default is 4 bytes for UVAR3, VAL3, and REG3 unless REG3 is the status register where the default is 2 bytes - 1 byte for ADDR3, GVAR3 and SYMIDX3. If EA3 is specified, the length is always set to 4 bytes.

a^1 = Level of the indirection (0-3) for the third field of copy input message. Default is 0.

b^1 = The offsets, in bytes, at each level of indirection. They can range from 0-65535. However, offsets greater than 32767 will be treated as negative offsets. One offset can be specified per each level of indirection. Maximum number of offsets is 3. Default is 0.

4. SYSTEM RESPONSE
Refer to the APP:UT-IM-REASON appendix in the Appendixes section of the Input Messages manual.

5. REFERENCES
Input Message(s):
ALW:UT-CMP
CLR:UT-CMP
DUMP:UT-CMP
DUMP:UT-SYMID
ELSE:UT-CMP
END:UT-CMP
EXC:UT-CMP
IF:UT-CMP
IF:UT-CMP-ENDIF
INH:UT-CMP
LOAD:UT-CMP
OP:UT-CMP
WHEN:UT-CMP

Output Message(s):

COPY:UT-CMP

Input Appendix(es):

APP:UT-IM-REASON

Output Appendix(es):

APP:UT-OM-REASON

Other Manual(s):

235-105-110  System Maintenance Requirements and Tools
235-600-400  Audits
1. PURPOSE

Requests that a value be copied into an address, register, global variable (specified by name or symbol index), or utility variable of the packet interface (PI) unit and optionally perform any of the following operations.

<table>
<thead>
<tr>
<th>To perform:</th>
<th>Use:</th>
</tr>
</thead>
<tbody>
<tr>
<td>increment operation</td>
<td>target(1) = value(2) oper=plus value(3)</td>
</tr>
<tr>
<td>decrement operation</td>
<td>target(1) = value(2) oper=minus value(3)</td>
</tr>
<tr>
<td>multiply operation</td>
<td>target(1) = value(2) oper=mult value(3)</td>
</tr>
<tr>
<td>divide operation</td>
<td>target(1) = value(2) oper=div value(3)</td>
</tr>
<tr>
<td>logical AND operation</td>
<td>target(1) = value(2) oper=and value(3)</td>
</tr>
<tr>
<td>logical OR operation</td>
<td>target(1) = value(2) oper=or value(3)</td>
</tr>
<tr>
<td>logical XOR operation</td>
<td>target(1) = value(2) oper=xor value(3)</td>
</tr>
<tr>
<td>logical shift left operation</td>
<td>target(1) = value(2) oper=shl value(3)</td>
</tr>
<tr>
<td>logical shift right operation</td>
<td>target(1) = value(2) oper=shr value(3)</td>
</tr>
<tr>
<td>invert operation</td>
<td>target(1) = value(2) oper=invert</td>
</tr>
</tbody>
</table>

Note: This input message is only supported on PIs of the PI2 hardware type.

WARNING: The user is responsible for any effects on system operation that result from the use of this input message. Know the effects of the message before using it.

2. FORMAT

COPY:UT:MCTSI=a-b,PI, {ADDR1=c|REG1=d|UVAR1=e|GVAR1="f"|SYMIDX1=g} [,L1=h] [,INDIR1=i] [,OFF1=j[-j][-j][[-j]]],EQ [,EA2], {ADDR2=k|REG2=l|UVAR2=m|GVAR2="n"|SYMIDX2=o|VAL2=p} [,L2=q] [,INDIR2=r] [,OFF2=s[-s][-s][-s]] [,oper=t] [,EA3], {ADDR3=u|REG3=v|UVAR3=w|GVAR3="x"|SYMIDX3=y|VAL3=z} [,L3=a1] [,INDIR3=b1] [,OFF3=c1[-c1][-c1][-c1]]|!|;}

3. EXPLANATION OF MESSAGE

Note: Variables 'c' through 'j' are field one of this input message, this field is also described as the target field.

Note: Variables 'k' through 's' are field two. This field is also described as the value(2) field. This field provides the source data for the target. This field can be modified by using one of the arithmetic operators together with the third field.

Note: Variables 't' through 'c1' are field three. This field is also described as the value(3) field. This field is used together with the arithmetic operator to modify field two.

EA2 = The value that is to be copied is the determined effective address of the message instead of the contents of the address for the second part of this input message.
EA3 = The value that is to be copied is the determined effective address of the message instead of the contents of the address for the third part of this input message.

a = Switching module (SM) number.

b = Side of the module controller/time-slot interchange (MCTSI).

c = Address that the value is copied into.

d = Name of register (address registers A0-A7, data registers D0-D7, program counter PC, or status register SR) that the value is copied into.

Note: This option of this input message can only be used as part of a generic utilities WHEN input clause.

e = Utility variable (UVAR) (0-14) that the value is copied into.

f = Symbolic name of the global variable that the value is copied into. The name is entered as a string of up to 15 characters, enclosed in double quotation marks. If the symbol name is greater than 15 characters the symbol index number 'g' must be used to enter this input message using symbolic access. The global variable's symbol index number can be determined by using the DUMP:UT-SYMID input message.

g = Symbol index number of global variable. The symbol index can be determined for this processor by using the DUMP:UT-SYMID input message.

h = Length of the value to be used for the target part of the message (0-4). Default is 4 bytes for UVAR1 and REG1 unless REG1 is set to the status register where the default is 2 bytes. Default is 1 byte for ADDR1, GVAR1 and SYMIDX1.

i = Level of indirection (0-3) for the first part of the message. Default is 0.

j = The offsets, in bytes, at each level of indirection. They can range from 0-65535. However, offsets greater than 32767 will be treated as negative offsets. One offset can be specified per each level of indirection. Maximum number of offsets is 3. Default is 0.

k = Address that the value is copied from. This value can be modified by using one of the arithmetic operators together with any one of the addressing modes (or value) contained in the third field.

l = Name of register (address registers A0-A7, data registers D0-D7, program counter PC, or status register SR) that the value is copied from. This value can be modified by using one of the arithmetic operators together with any one of the addressing modes (or value) contained in the third field.

Note: This option of this input message can only be used as part of a generic utilities WHEN input clause.

m = Utility variable (0-14) that the value is copied from. This value can be modified by using one of the arithmetic operators together with any one of the addressing modes (or value) contained in the third field.

n = Symbolic name of the global variable that the value is to be copied from. The name is entered as a string of up to 15 characters, enclosed in double quotation marks. This value can be modified by using one of the arithmetic operators together with any one of the addressing modes (or value) contained in the third field of this input message. If the symbol name is greater than 15 characters the symbol index number 'o' must be used to enter this input message using symbolic access.
The global variable’s symbol index number can be determined by using the DUMP:UT-SYMID input message.

- Symbol index number of global variable. The symbol index can be determined for this processor by using the DUMP:UT-SYMID input message. This value can be modified by using one of the arithmetic operators together with any one of the addressing modes (or value) contained in the third field of this input message.

- Value to be copied. This value can be modified by using one of the arithmetic operators together with any one of the addressing modes (or value) contained in the third field.

- Length of the value to be used in the value(2) part of the message (0-4). Default is 4 bytes for UVAR2, VAL2, and REG2 unless REG2 is the status register where the default is 2 bytes; 1 byte for ADDR2, GVAR2 and SYMIDX2. If EA2 is specified, the length is set to 4 bytes.

- Level of indirection (0-3) for the second part of the message. Default is 0.

- The offsets, in bytes, at each level of indirection. They can range from 0-65535. However, offsets greater than 32767 will be treated as negative offsets. One offset can be specified per each level of indirection. Maximum number of offsets is 3. Default is 0.

- The arithmetic operators that can be used. Valid value(s):
  - **and**: Performs logical "and" of the value in field 2 with the value of field 3.
  - **div**: Divides the value of field 2 by the value of field 3.
  - **invert**: Performs a logical binary inversion of the value in field 2.
  - **minus**: Subtracts the value of field 3 from the value of field 2.
  - **mult**: Multiplies the value of field 3 with the value of field 2.
  - **or**: Performs logical "or" of the value in field 2 with the value of field 3.
  - **plus**: Adds the value of field 3 to the value of field 2.
  - **shl**: Shifts left the value in field 2 by the value of field 3.
  - **shr**: Shifts right the value in field 2 by the value of field 3.
  - **xor**: Performs logical "exclusive or" of the value in field 2 with the value of field 3.

- An address whose contents may be used with one of the arithmetic operators to modify the addressing mode (or value) in the second field.

- Name of register (address registers A0-A7, data registers D0-D7, program counter PC, or status register SR) whose contents may be used with one of the arithmetic operators to modify the addressing mode (or value) in the second field.

  **Note:** This option of this input message can only be used as part of a generic utilities WHEN input clause.

- Utility variable (0-14) whose contents may be used with one of the arithmetic operators to modify the addressing mode (or value) in the second field.

- Symbolic name of the global variable whose contents may be used with one of the arithmetic operators to modify the addressing mode (or value) in the second field of this input message. The name is entered as a string of up to 15 characters, enclosed in double quotation marks. If the symbol name is greater than 15 characters the symbol index number ‘y’ must be used to enter this input message using symbolic access. The global variable’s symbol index number can be determined by using the DUMP:UT-SYMID input message.

- Symbol index number of global variable. The symbol index can be determined for this processor.
by using the DUMP:UT-SYMID input message.

z = Value that may be used with one of the arithmetic operators to modify the addressing mode (or value) in the second field.

a\(^1\) = Length of the value to be used in the value (3) part of the message (0-4). Default is 4 bytes for UVAR3, VAL3, and REG3 unless REG3 is the status register where the default is 2 bytes; 1 byte for ADDR3, GVAR3 and SYMIDX3. If EA3 is specified, the length is always set to 4 bytes.

b\(^1\) = Level of the indirection (0-3) for the third field. Default is 0.

c\(^1\) = The offsets, in bytes, at each level of indirection. They can range from 0-65535. However, offsets greater than 32767 will be treated as negative offsets. One offset can be specified per each level of indirection. Maximum number of offsets is 3. Default is 0.

4. SYSTEM RESPONSE

Refer to the APP:UT-IM-REASON appendix in the Appendixes section of the Input Messages manual.

5. REFERENCES

Input Message(s):

ALW:UT-MCTSI-PI
CLR:UT-MCTSI-PI
DUMP:UT-MCTSI-PI
DUMP:UT-SYMID
ELSE:UT-MCTSI-PI
END:UT-MCTSI-PI
EXC:UT-MCTSI-PI
IF:UT-MCTSI-PI
IF:UT-MCTSI-PE
INH:UT-MCTSI-PI
LOAD:UT-MCTSI-PI
OP:UT-MCTSI-PI
WHEN:UT-MCTSI-PI

Input Appendix(es):

APP:UT-IM-REASON

Output Appendix(es):

APP:UT-OM-REASON

Other Manual(s):
235-105-110 System Maintenance Requirements and Tools
235-600-400 Audits
COPY:UT-PSUPH-A

Software Release: 5E14 only
Command Group: SFTUTIL
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Requests that a value be copied into an address, register, global variable (specified for name or symbol index), or utility variable of the packet switch unit protocol handler (PSUPH), and optionally perform any of the following operations:

<table>
<thead>
<tr>
<th>To perform:</th>
<th>Use:</th>
</tr>
</thead>
<tbody>
<tr>
<td>increment operation</td>
<td>target(1) = value(2) oper=plus value(3)</td>
</tr>
<tr>
<td>decrement operation</td>
<td>target(1) = value(2) oper=minus value(3)</td>
</tr>
<tr>
<td>multiply operation</td>
<td>target(1) = value(2) oper=mul value(3)</td>
</tr>
<tr>
<td>divide operation</td>
<td>target(1) = value(2) oper=div value(3)</td>
</tr>
<tr>
<td>logical AND operation</td>
<td>target(1) = value(2) oper=and value(3)</td>
</tr>
<tr>
<td>logical OR operation</td>
<td>target(1) = value(2) oper=or value(3)</td>
</tr>
<tr>
<td>logical XOR operation</td>
<td>target(1) = value(2) oper=xor value(3)</td>
</tr>
<tr>
<td>logical shift left operation</td>
<td>target(1) = value(2) oper=shl value(3)</td>
</tr>
<tr>
<td>logical shift right operation</td>
<td>target(1) = value(2) oper=shr value(3)</td>
</tr>
<tr>
<td>invert operation</td>
<td>target(1) = value(2) oper=invert</td>
</tr>
</tbody>
</table>

Note: This input message is only supported on PSUPHs of the PH3/PH4 and later hardware types (that is, not PH2 hardware types).

This message may be used together with any of the other PSUPH generic utility input messages (refer to the input messages listed in the REFERENCES section).

If this message is used together with other generic utility messages, the END:UT-PSUPH input message may be used to signal the end of the series of messages.

WARNING: The user is responsible for any effects on system operation that result from the use of this input message. Know the effects of the message before using it.

2. FORMAT

COPY:UT-PSUPH=a-b-c-d,(ADDR1=e|REG1=f|UVAR1=g|GVAR1="h"|SYMIDX1=i) [,L1=j][,INDIR1=k][,OFF1=l[-1][-1]],EQ [,EA2],[{ADDR2=m|REG2=n|UVAR2=o|GVAR2="p"|SYMIDX2=q|VAL2=r} [,L2=s][,INDIR2=t][,OFF2=u[-u][-u]] [,oper=v][,EA3],[{ADDR3=w|REG3=x|UVAR3=y|GVAR3="z"|SYMIDX3=a¹|VAL3=b¹}) [,L3=c¹][,INDIR3=d¹][,OFF3=e¹[-e¹][-e¹]])!|;}

3. EXPLANATION OF MESSAGE

Note: Variables 'e' through 'l' are field one of the copy input message. This field is also described as the target field.

Note: Variables 'm' through 'u' are field two of the copy input message, this field is also described as the
value(2) field. This field provides the source data for the target. This field can be modified by using one of the arithmetic operators together with the third field of the copy input message.

Note: Variables 'v' through 'e' are field three of the copy input message, this field is also described as the value(3) field. This field is used together with the arithmetic operator to modify field two of the copy input message.

EA2 = The value which is to be copied is the determined effective address of the message instead of the contents of the address for the second part of the input message.

EA3 = The value which is to be copied is the determined effective address of the message instead of the contents of the address for the third part of the input message.

a = Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

b = Unit number (always 0).

c = Shelf number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

d = Slot number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

e = Address that the value is copied into.

f = Name of register (address registers A0-A7, data registers D0-D7, program counter PC, or status register SR) that the value is copied into.

Note: This option of this input message can only be used as part of a generic utilities WHEN input message clause.

g = Utility variable (UVAR) (0-14) that the value is copied into.

h = Symbolic name of the global variable that the value is copied into. The name is entered as a string of up to 15 characters, enclosed in double quotation marks. If the symbol name is greater than 15 characters the symbol index number 'i' must be used to enter this input message using symbolic access. The global variable's symbol index number can be determined by using the DUMP:UT-SYMID input message.

i = Symbol index number of global variable. The symbol index can be determined for this processor by using the DUMP:UT-SYMID input message.

j = Length of the value to be used for the target part of the message (0-4). Default is 4 bytes for UVAR1 and REG1 unless REG1 is set to the status register where the default is 2 bytes. Default is 1 byte for ADDR1, GVAR1 and SYMIDX1.

k = Level of indirection (0-3) for the first part of the message. Default is 0.

l = The offsets, in bytes, at each level of indirection. They can range from 0-65535. However, offsets greater than 32767 will be treated as negative offsets. One offset can be specified per each level of indirection. Maximum number of offsets is 3. Default is 0.

m = Address that the value is copied from. This value can be modified by using one of the arithmetic operators together with any one of the addressing modes (or value) contained in the third field of the copy input message.
n = Name of register (address registers A0-A7, data registers D0-D7, program counter PC, or status register SR) that the value is copied from. This value can be modified by using one of the arithmetic operators together with any one of the addressing modes (or value) contained in the third field of the copy input message.
Note: This option of this input message can only be used as part of a generic utilities WHEN input message clause.

o = Utility variable (0-14) that the value is copied from. This value can be modified by using one of the arithmetic operators together with any one of the addressing modes (or value) contained in the third field of the copy input message.

p = Symbolic name of the global variable that the value is to be copied from. The name is entered as a string of up to 15 characters, enclosed in double quotation marks. This value can be modified by using one of the arithmetic operators together with any one of the addressing modes (or value) contained in the third field of this input message. If the symbol name is greater than 15 characters the symbol index number 'q' must be used to enter this input message using symbolic access. The global variable's symbol index number can be determined by using the DUMP:UT-SYMID input message.

q = Symbol index number of global variable. The symbol index can be determined for this processor by using the DUMP:UT-SYMID input message. This value can be modified by using one of the arithmetic operators together with any one of the addressing modes (or value) contained in the third field of this input message.

r = Value to be copied. This value can be modified by using one of the arithmetic operators together with any one of the addressing modes (or value) contained in the third field of the copy input message.

s = Length of the value to be used in the value(2) part of the message (0-4). Default is 4 bytes for UVAR2, VAL2, and REG2 unless REG2 is the status register where the default is 2 bytes; 1 byte for ADDR2, GVAR2, SYMIDX2. If EA2 is specified, the length is set to 4 bytes.

t = Level of indirection (0-3) for the second part of the message. Default is 0.

u = The offsets, in bytes, at each level of indirection. They can range from 0-65535. However, offsets greater than 32767 will be treated as negative offsets. One offset can be specified per each level of indirection. Maximum number of offsets is 3. Default is 0.

v = Legal operator. Valid value(s):
and = Performs logical "and" of the value in field 2 with the value of field 3.
div = Divides the value of field 2 by the value of field 3.
invert = Performs a logical binary inversion of the value in field 2.
minus = Subtracts the value of field 3 from the value of field 2.
mult = Multiplies the value of field 3 with the value of field 2.
or = Performs logical "or" of the value in field 2 with the value of field 3.
plus = Adds the value of field 3 to the value of field 2.
shl = Shifts left the value in field 2 by the value of field 3.
shr = Shifts right the value in field 2 by the value of field 3.
xor = Performs logical "exclusive or" of the value in field 2 with the value of field 3.

w = An address whose contents may be used with one of the arithmetic operators to modify the addressing mode (or value) in the second field of the copy input message.
**x**
= Name of register (address registers A0-A7, data registers D0-D7, program counter PC, or status register SR) whose contents may be used with one of the arithmetic operators to modify the addressing mode (or value) in the second field of the copy input message. 
Note: This option of this input message can only be used as part of a generic utilities WHEN input message clause.

**y**
= Utility variable (0-14) whose contents may be used with one of the arithmetic operators to modify the addressing mode (or value) in the second field of the copy input message.

**z**
= Symbolic name of the global variable whose contents may be used with one of the arithmetic operators to modify the addressing mode (or value) in the second field of this input message. The name is entered as a string of up to 15 characters, enclosed in double quotation marks. If the symbol name is greater than 15 characters the symbol index number 'a' must be used to enter this input message using symbolic access. The global variable's symbol index number can be determined by using the DUMP:UT-SYMID input message.

**a**
= Symbol index number of global variable. The symbol index can be determined for this processor by using the DUMP:UT-SYMID input message.

**b**
= Value that may be used with one of the arithmetic operators to modify the addressing mode (or value) in the second field of the copy input message.

**c**
= Length of the value to be used in the value (3) part of the message (0-4). Default is 4 bytes for UVAR3, VAL3, and REG3 unless REG3 is the status register where the default is 2 bytes; 1 byte for ADDR3, GVAR3 and SYMIDX3. If EA3 is specified, the length is always set to 4 bytes.

**d**
= Level of the indirection (0-3) for the third field of copy input message. Default is 0.

**e**
= The offsets, in bytes, at each level of indirection. They can range from 0-65535. However, offsets greater than 32767 will be treated as negative offsets. One offset can be specified per each level of indirection. Maximum number of offsets is 3. Default is 0.

### 4. SYSTEM RESPONSE

Refer to the APP:UT-IM-REASON appendix in the Appendixes section of the Input Messages manual.

### 5. REFERENCES

Input Message(s):

- ALW:UT-PSUPH
- CLR:UT-PSUPH
- DUMP:UT-PSUPH
- DUMP:UT-SYMID
- ELSE:UT-PSUPH
- END:UT-PSUPH
- EXC:UT-PSUPH
- IF:UT-PSUPH
- IF:UT-PSUPH-END
- INH:UT-PSUPH
- LOAD:UT-PSUPH
- OP:UT-PSUPH
- WHEN:UT-PSUPH
COPY:UT-PSUPH-B

Software Release: 5E15 only
Command Group: SFTUTIL
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Requests that a value be copied into an address, register, global variable (specified for name or symbol index), or utility variable of the packet switch unit protocol handler (PSUPH), and optionally perform any of the following operations:

<table>
<thead>
<tr>
<th>To perform:</th>
<th>Use:</th>
</tr>
</thead>
<tbody>
<tr>
<td>increment operation</td>
<td>target(1) = value(2) oper=plus value(3)</td>
</tr>
<tr>
<td>decrement operation</td>
<td>target(1) = value(2) oper=minus value(3)</td>
</tr>
<tr>
<td>multiply operation</td>
<td>target(1) = value(2) oper=mult value(3)</td>
</tr>
<tr>
<td>divide operation</td>
<td>target(1) = value(2) oper=div value(3)</td>
</tr>
<tr>
<td>logical AND operation</td>
<td>target(1) = value(2) oper=and value(3)</td>
</tr>
<tr>
<td>logical OR operation</td>
<td>target(1) = value(2) oper=or value(3)</td>
</tr>
<tr>
<td>logical XOR operation</td>
<td>target(1) = value(2) oper=xor value(3)</td>
</tr>
<tr>
<td>logical shift left operation</td>
<td>target(1) = value(2) oper=shl value(3)</td>
</tr>
<tr>
<td>logical shift right operation</td>
<td>target(1) = value(2) oper=shr value(3)</td>
</tr>
<tr>
<td>invert operation</td>
<td>target(1) = value(2) oper=invert</td>
</tr>
</tbody>
</table>

Note: This input message is only supported on PSUPHs of the PH3/PH4 and later hardware types (that is, not PH2 hardware types).

This message may be used together with any of the other PSUPH generic utility input messages (refer to the input messages listed in the REFERENCES section).

If this message is used together with other generic utility messages, the END:UT-PSUPH input message may be used to signal the end of the series of messages.

WARNING: The user is responsible for any effects on system operation that result from the use of this input message. Know the effects of the message before using it.

2. FORMAT

COPY:UT-PSUPH=a-b-c-d, {ADDR1=e | REG1=f | UVAR1=g | GVAR1="h"} ...  
... SYMIDX1=i, {L1=j}, {INDIR1=k}, {OFF1=l[-l][-l]}, EQ... 
... [,EA2], {ADDR2=m | REG2=n | UVAR2=o | GVAR2="p" | SYMIDX2=q | VAL2=r} ... 
... [,L2=s], {INDIR2=t}, {OFF2=u[-u][-u]}, {oper=v} [,EA3] [,... 
... {ADDR3=w | REG3=x | UVAR3=y | GVAR3="z" | SYMIDX3=a1 | VAL3=b1} ... 
... [,L3=c1], {INDIR3=d1}, {OFF3=e1[-e1][-e1]} (!|;)

3. EXPLANATION OF MESSAGE

Note: Variables 'e' through 'l' are field one of the copy input message. This field is also described as the target field.

Note: Variables 'm' through 'u' are field two of the copy input message, this field is also described as the
value(2) field. This field provides the source data for the target. This field can be modified by using one of the arithmetic operators together with the third field of the copy input message.

Note: Variables 'v' through 'e1' are field three of the copy input message, this field is also described as the value(3) field. This field is used together with the arithmetic operator to modify field two of the copy input message and is optional.

EA2 = The value which is to be copied is the determined effective address of the message instead of the contents of the address for the second part of the input message.

EA3 = The value which is to be copied is the determined effective address of the message instead of the contents of the address for the third part of the input message.

a = Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

b = Unit number (always 0).

c = Shelf number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

d = Slot number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

e = Address that the value is copied into.

f = Name of a specific register whose data is to be dumped. The following registers can be used:
- If PSUPH is a PHV5 hardware type, the registers are general purpose registers GPR0, GPR2-GPR31, the stack pointer SP [which is GPR1], the link register LR, program counter PC, count register CTR, condition register CR, machine state register MSR, and the integer exception register XER.
- If PSUPH is a PH[3-4,6,22], PHA, PHV[1-4] hardware type, the registers are address registers A0-A5, A6 [which is the frame pointer FP], A7 [which is the stack pointer SP], data registers D0-D7, program counter PC, and status register SR.

Note: This option of this input message can only be used as part of a generic utilities WHEN input message clause.

g = Utility variable (UVAR) (0-14) that the value is copied into.

h = Symbolic name of the global variable that the value is copied into. The name is entered as a string of up to 15 characters, enclosed in double quotation marks. If the symbol name is greater than 15 characters the symbol index number 'i' must be used to enter this input message using symbolic access. The global variable's symbol index number can be determined by using the DUMP:UT-SYMID input message.

i = Symbol index number of global variable. The symbol index can be determined for this processor by using the DUMP:UT-SYMID input message.

j = Length of the value to be used for the target part of the message (0-4). Default is 4 bytes for UVAR1 and REG1 unless REG1 is set to the status register where the default is 2 bytes. Default is 1 byte for ADDR1, GVAR1 and SYMIDX1.

k = Level of indirection (0-3) for the first part of the message. Default is 0.
The offsets, in bytes, at each level of indirection. They can range from 0-65535. However, offsets greater than 32767 will be treated as negative offsets. One offset can be specified per each level of indirection. Maximum number of offsets is 3. Default is 0.

Address that the value is copied from. This value can be modified by using one of the arithmetic operators together with any one of the addressing modes (or value) contained in the third field of the copy input message.

Name of a specific register that the value is copied from. This value can be modified by using one of the arithmetic operators together with any one of the addressing modes (or value) contained in the third field of the copy input message. The following registers can be used:

- If PSUPH is a PHV5 hardware type, the registers are general purpose registers GPR0, GPR2-GPR31, the stack pointer SP [which is GPR1], the link register LR, program counter PC, count register CTR, condition register CR, machine state register MSR, and the integer exception register XER.
- If PSUPH is a PH[3-4,6,22], PHA, PHV[1-4] hardware type, the registers are address registers A0-A5, A6 [which is the frame pointer FP], A7 [which is the stack pointer SP], data registers D0-D7, program counter PC, and status register SR.

Note: This option of this input message can only be used as part of a generic utilities WHEN input message clause.

Utility variable (0-14) that the value is copied from. This value can be modified by using one of the arithmetic operators together with any one of the addressing modes (or value) contained in the third field of the copy input message.

Symbolic name of the global variable that the value is to be copied from. The name is entered as a string of up to 15 characters, enclosed in double quotation marks. This value can be modified by using one of the arithmetic operators together with any one of the addressing modes (or value) contained in the third field of this input message. If the symbol name is greater than 15 characters the symbol index number ‘q’ must be used to enter this input message using symbolic access. The global variable's symbol index number can be determined by using the DUMP:UT-SYMID input message.

Symbol index number of global variable. The symbol index can be determined for this processor by using the DUMP:UT-SYMID input message. This value can be modified by using one of the arithmetic operators together with any one of the addressing modes (or value) contained in the third field of this input message.

Value to be copied. This value can be modified by using one of the arithmetic operators together with any one of the addressing modes (or value) contained in the third field of the copy input message.

Length of the value to be used in the value(2) part of the message (0-4). Default is 4 bytes for UVAR2, VAL2, and REG2 unless REG2 is the status register where the default is 2 bytes; 1 byte for ADDR2, GVAR2, SYMIDX2. If EA2 is specified, the length is set to 4 bytes.

Level of indirection (0-3) for the second part of the message. Default is 0.

The offsets, in bytes, at each level of indirection. They can range from 0-65535. However, offsets greater than 32767 will be treated as negative offsets. One offset can be specified per each level of indirection. Maximum number of offsets is 3. Default is 0.

Legal operator. Valid value(s):

and = Performs logical “and” of the value in field 2 with the value of field 3.
div = Divides the value of field 2 by the value of field 3.
invert = Performs a logical binary inversion of the value in field 2.
minus = Subtracts the value of field 3 from the value of field 2.
mult = Multiplies the value of field 3 with the value of field 2.
or = Performs logical "or" of the value in field 2 with the value of field 3.
plus = Adds the value of field 3 to the value of field 2.
shr = Shifts right the value in field 2 by the value of field 3.
xor = Performs logical "exclusive or" of the value in field 2 with the value of field 3.

w = An address whose contents may be used with one of the arithmetic operators to modify the addressing mode (or value) in the second field of the copy input message.

x = Name of register whose contents may be used with one of the arithmetic operators to modify the addressing mode (or value) in the second field of the copy command. The following registers can be used:
   - If PSUPH is a PHV5 hardware type, the registers are general purpose registers GPR0, GPR2-GPR31, the stack pointer SP [which is GPR1], the link register LR, program counter PC, count register CTR, condition register CR, machine state register MSR, and the integer exception register XER.
   - If PSUPH is a PH[3-4,6,22], PHA, PHV[1-4] hardware type, the registers are address registers A0-A5, A6 [which is the frame pointer FP], A7 [which is the stack pointer SP], data registers D0-D7, program counter PC, and status register SR.

Note: This option of this input message can only be used as part of a generic utilities WHEN input message clause.

y = Utility variable (0-14) whose contents may be used with one of the arithmetic operators to modify the addressing mode (or value) in the second field of the copy input message.

z = Symbolic name of the global variable whose contents may be used with one of the arithmetic operators to modify the addressing mode (or value) in the second field of this input message. The name is entered as a string of up to 15 characters, enclosed in double quotation marks. If the symbol name is greater than 15 characters the symbol index number 'a1' must be used to enter this input message using symbolic access. The global variable's symbol index number can be determined by using the DUMP:UT-SYMID input message.

a1 = Symbol index number of global variable. The symbol index can be determined for this processor by using the DUMP:UT-SYMID input message.

b1 = Value that may be used with one of the arithmetic operators to modify the addressing mode (or value) in the second field of the copy input message.

c1 = Length of the value to be used in the value (3) part of the message (0-4). Default is 4 bytes for UVAR3, VAL3, and REG3 unless REG3 is the status register where the default is 2 bytes; 1 byte for ADDR3, GVAR3 and SYMIDX3. If EA3 is specified, the length is always set to 4 bytes.

d1 = Level of the indirection (0-3) for the third field of copy input message. Default is 0.

e1 = The offsets, in bytes, at each level of indirection. They can range from 0-65535. However, offsets greater than 32767 will be treated as negative offsets. One offset can be specified per each level of indirection. Maximum number of offsets is 3. Default is 0.
4. SYSTEM RESPONSE

Refer to the APP:UT-IM-REASON appendix in the Appendixes section of the Input Messages manual.

5. REFERENCES

Input Message(s):

ALW:UT-PSUPH
CLR:UT-PSUPH
DUMP:UT-PSUPH
DUMP:UT-SYMID
ELSE:UT-PSUPH
END:UT-PSUPH
EXC:UT-PSUPH
IF:UT-PSUPH
IF:UT-PSUPH-END
INH:UT-PSUPH
LOAD:UT-PSUPH
OP:UT-PSUPH
WHEN:UT-PSUPH

Output Message(s):

COPY:UT-PSUPH

Input Appendix(es):

APP:UT-IM-REASON

Output Appendix(es):

APP:RANGES
APP:UT-OM-REASON

Other Manual(s):

235-105-110 System Maintenance Requirements and Tools
235-600-400 Audits
COPY:UT-PSUPH-C

Software Release: 5E16(1) and later
Command Group: SFTUTIL
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Requests that a value be copied into an address, register, global variable (specified for name or symbol index), or utility variable of the packet switch unit protocol handler (PSUPH), and optionally perform specific operations. These include:

<table>
<thead>
<tr>
<th>To perform:</th>
<th>Use:</th>
</tr>
</thead>
<tbody>
<tr>
<td>increment operation</td>
<td>target(1) = value(2) oper=plus value(3)</td>
</tr>
<tr>
<td>decrement operation</td>
<td>target(1) = value(2) oper=minus value(3)</td>
</tr>
<tr>
<td>multiply operation</td>
<td>target(1) = value(2) oper=mult value(3)</td>
</tr>
<tr>
<td>divide operation</td>
<td>target(1) = value(2) oper=div value(3)</td>
</tr>
<tr>
<td>logical AND operation</td>
<td>target(1) = value(2) oper=and value(3)</td>
</tr>
<tr>
<td>logical OR operation</td>
<td>target(1) = value(2) oper=or value(3)</td>
</tr>
<tr>
<td>logical XOR operation</td>
<td>target(1) = value(2) oper=xor value(3)</td>
</tr>
<tr>
<td>logical shift left operation</td>
<td>target(1) = value(2) oper=shl value(3)</td>
</tr>
<tr>
<td>logical shift right operation</td>
<td>target(1) = value(2) oper=shr value(3)</td>
</tr>
<tr>
<td>invert operation</td>
<td>target(1) = value(2) oper=invert</td>
</tr>
</tbody>
</table>

This input message is not supported on PSUPHs of the PH2 hardware type and is supported on all others.

This message may be used together with any of the other PSUPH generic utility input messages (refer to the input messages listed in the REFERENCES section).

If this message is used together with other generic utility messages, the END:UT-PSUPH input message may be used to signal the end of the series of messages.

WARNING: The user is responsible for any effects on system operation that result from the use of this input message. Know the effects of the message before using it.

2. FORMAT

COPY:UT-PSUPH=a-b-c-d, {ADDR1=e|REG1=f|UVAR1=g|GVAR1="h"| SYMIDX1=i}[,L1=j][,INDIR1=k][,OFF1=l[-l[-l[-l]]]],EQ [,EA2], {ADDR2=m|REG2=n|UVAR2=o|GVAR2="p"| GVAR2="q"| SYMIDX2=q[VAL2=r] [,L2=s][,INDIR2=t][,OFF2=u[-u[-u[-u]]][,oper=v][,EA3][, ADDR3=w|REG3=x|UVAR3=y|GVAR3="z"| SYMIDX3=a{VAL3=b} [,L3=c{,INDIR3=d}][,OFF3=e{l-e{l-e{l}}}]|{!|;}}

3. EXPLANATION OF MESSAGE

**NOTE 1:** Variables 'e' through 'l' are field one of the copy input message. This field is also described as the target field.

**NOTE 2:** Variables 'm' through 'u' are field two of the copy input message, this field is also described as the value(2) field. This field provides the source data for the target. This field can be modified by using one of the arithmetic operators together with the third field of the copy input message.
**NOTE 3:** Variables ‘v’ through ‘e1’ are field three of the copy input message, this field is also described as the value(3) field. This field is used together with the arithmetic operator to modify field two of the copy input message and is optional.

**EA2** = The value which is to be copied is the determined effective address of the message instead of the contents of the address for the second part of the input message.

**EA3** = The value which is to be copied is the determined effective address of the message instead of the contents of the address for the third part of the input message.

**a** = Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

**b** = Packet switching unit (PSU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

**c** = Shelf number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

**d** = Slot number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

**e** = Address that the value is copied into.

**f** = Name of a specific register whose data is to be dumped. Valid value(s):

<table>
<thead>
<tr>
<th>PSUPH Hardware Type:</th>
<th>Registers:</th>
</tr>
</thead>
</table>
| PHV5, PHV6, PH31, PHA2, or PHE2 | GPR0 = General purpose register.  
| | GPR2-GPR31 = General purpose registers.  
| | SP = Stack pointer SP (also known as GPR1).  
| | LR = Link register.  
| | PC = Program counter.  
| | CTR = Count register.  
| | CR = Condition register.  
| | MSR = Machine state register.  
| | XER = Exception register XER.  
| PH[3-4,6,22], PHA or PHV[1-4] | A0-A5 = Address registers.  
| | A6 = the frame pointer FP.  
| | A7 = Stack pointer SP.  
| | D0-D7 = Data registers.  
| | PC = Program counter.  
| | SR = Status register SR. |

**NOTE:** This option of this input message can only be used as part of a generic utilities WHEN input message clause.

**g** = Utility variable (UVAR) (0-14) that the value is copied into.

**h** = Symbolic name of the global variable that the value is copied into. The name is entered as a string of up to 15 characters, enclosed in double quotation marks. If the symbol name is greater than 15 characters the symbol index number ‘i’ must be used to enter this input message using symbolic access. The global variable’s symbol index number can be determined by using the DUMP:UT-SYMID input message.

**i** = Symbol index number of global variable. The symbol index can be determined for this processor by using
the DUMP:UT-SYMID input message.

\(\text{j}\) = Length of the value to be used for the target part of the message (0-4). Default is 4 bytes for UVAR1 and REG1 unless REG1 is set to the status register where the default is 2 bytes. Default is 1 byte for ADDR1, GVAR1 and SYMIDX1.

\(\text{k}\) = Level of indirection (0-3) for the first part of the message. Default is 0.

\(\text{l}\) = The offsets, in bytes, at each level of indirection. They can range from 0-65535. However, offsets greater than 32767 will be treated as negative offsets. One offset can be specified per each level of indirection. Maximum number of offsets is 3. Default is 0.

\(\text{m}\) = Address that the value is copied from. This value can be modified by using one of the arithmetic operators together with any one of the addressing modes (or value) contained in the third field of the copy input message.

\(\text{n}\) = Name of a specific register that the value is copied from. This value can be modified by using one of the arithmetic operators together with any one of the addressing modes (or value) contained in the third field of the copy input message. The following registers can be used:

- If PSUPH is a PHV5, PHV6, PH31, PHA2, or PHE2 hardware type, the registers are general purpose registers GPR0, GPR2-GPR31, the stack pointer SP [which is GPR1], the link register LR, program counter PC, count register CTR, condition register CR, machine state register MSR, and the integer exception register XER.
- If PSUPH is a PH[3-4,6,22], PHA, PHV[1-4] hardware type, the registers are address registers A0-A5, A6 [which is the frame pointer FP], A7 [which is the stack pointer SP], data registers D0-D7, program counter PC, and status register SR.

\text{NOTE:} This option of this input message can only be used as part of a generic utilities WHEN input message clause.

\(\text{o}\) = Utility variable (0-14) that the value is copied from. This value can be modified by using one of the arithmetic operators together with any one of the addressing modes (or value) contained in the third field of the copy input message.

\(\text{p}\) = Symbolic name of the global variable that the value is to be copied from. The name is entered as a string of up to 15 characters, enclosed in double quotation marks. This value can be modified by using one of the arithmetic operators together with any one of the addressing modes (or value) contained in the third field of this input message. If the symbol name is greater than 15 characters the symbol index number ‘\(\text{q}\)’ must be used to enter this input message using symbolic access. The global variable’s symbol index number can be determined by using the DUMP:UT-SYMID input message.

\(\text{q}\) = Symbol index number of global variable. The symbol index can be determined for this processor by using the DUMP:UT-SYMID input message. This value can be modified by using one of the arithmetic operators together with any one of the addressing modes (or value) contained in the third field of this input message.

\(\text{r}\) = Value to be copied. This value can be modified by using one of the arithmetic operators together with any one of the addressing modes (or value) contained in the third field of the copy input message.

\(\text{s}\) = Length of the value to be used in the value(2) part of the message (0-4). Default is 4 bytes for UVAR2, VAL2, and REG2 unless REG2 is the status register where the default is 2 bytes; 1 byte for ADDR2, GVAR2, SYMIDX2. If EA2 is specified, the length is set to 4 bytes.

\(\text{t}\) = Level of indirection (0-3) for the second part of the message. Default is 0.
= The offsets, in bytes, at each level of indirection. They can range from 0-65535. However, offsets greater than 32767 will be treated as negative offsets. One offset can be specified per each level of indirection. Maximum number of offsets is 3. Default is 0.

v = Legal operator. Valid value(s):
\[\begin{align*}
\text{and} & = \text{Performs logical "and" of the value in field 2 with the value of field 3.} \\
\text{div} & = \text{Divides the value of field 2 by the value of field 3.} \\
\text{invert} & = \text{Performs a logical binary inversion of the value in field 2.} \\
\text{minus} & = \text{Subtracts the value of field 3 from the value of field 2.} \\
\text{mult} & = \text{Multipies the value of field 3 with the value of field 2.} \\
\text{or} & = \text{Performs logical "or" of the value in field 2 with the value of field 3.} \\
\text{plus} & = \text{Adds the value of field 3 to the value of field 2.} \\
\text{shl} & = \text{Shifts left the value in field 2 by the value of field 3.} \\
\text{shr} & = \text{Shifts right the value in field 2 by the value of field 3.} \\
\text{xor} & = \text{Performs logical "exclusive or" of the value in field 2 with the value of field 3.}
\end{align*}\]

w = An address whose contents may be used with one of the arithmetic operators to modify the addressing mode (or value) in the second field of the copy input message.

x = Name of register whose contents may be used with one of the arithmetic operators to modify the addressing mode (or value) in the second field of the copy message. The following registers can be used:
- If PSUPH is a PHV5, PHV6, PH31, PHA2, or PHE2 hardware type, the registers are general purpose registers GPR0, GPR2-GPR31, the stack pointer SP [which is GPR1], the link register LR, program counter PC, count register CTR, condition register CR, machine state register MSR, and the integer exception register XER.
- If PSUPH is a PH[3-4,6,22], PHA, PHV[1-4] hardware type, the registers are address registers A0-A5, A6 [which is the frame pointer FP], A7 [which is the stack pointer SP], data registers D0-D7, program counter PC, and status register SR.

**NOTE:** This option of this input message can only be used as part of a generic utilities WHEN input message clause.

y = Utility variable (0-14) whose contents may be used with one of the arithmetic operators to modify the addressing mode (or value) in the second field of the copy input message.

z = Symbolic name of the global variable whose contents may be used with one of the arithmetic operators to modify the addressing mode (or value) in the second field of this input message. The name is entered as a string of up to 15 characters, enclosed in double quotation marks. If the symbol name is greater than 15 characters the symbol index number \text{`a^1`} must be used to enter this input message using symbolic access. The global variable's symbol index number can be determined by using the DUMP:UT-SYMID input message.

a^1 = Symbol index number of global variable. The symbol index can be determined for this processor by using the DUMP:UT-SYMID input message.

b^1 = Value that may be used with one of the arithmetic operators to modify the addressing mode (or value) in the second field of the copy input message.

c^1 = Length of the value to be used in the value (3) part of the message (0-4). Default is 4 bytes for UVAR3, VAL3, and REG3 unless REG3 is the status register where the default is 2 bytes; 1 byte for ADDR3, GVAR3 and SYMIDX3. If EA3 is specified, the length is always set to 4 bytes.
\( d^1 \) = Level of the indirection (0-3) for the third field of copy input message. Default is 0.

\( e^1 \) = The offsets, in bytes, at each level of indirection. They can range from 0-65535. However, offsets greater than 32767 will be treated as negative offsets. One offset can be specified per each level of indirection. Maximum number of offsets is 3. Default is 0.

### 4. SYSTEM RESPONSE

Refer to the APP:UT-IM-REASON appendix in the Appendixes section of the Input Messages manual.

### 5. REFERENCES

**Input Message(s):**

- ALW:UT-PSUPH
- CLR:UT-PSUPH
- DUMP:UT-PSUPH
- DUMP:UT-SYMID
- ELSE:UT-PSUPH
- END:UT-PSUPH
- EXC:UT-PSUPH
- IF:UT-PSUPH
- IF:UT-PSUPH-END
- INH:UT-PSUPH
- LOAD:UT-PSUPH
- OP:UT-PSUPH
- WHEN:UT-PSUPH

**Output Message(s):**

- COPY:UT-PSUPH

**Input Appendix(es):**

- APP:UT-IM-REASON

**Output Appendix(es):**

- APP:RANGES
- APP:UT-OM-REASON

**Other Manual(s):**

- 235-105-110 System Maintenance Requirements and Tools
- 235-600-400 Audits
1. PURPOSE

Requests that a value be copied into an address, register, variable, or utility variable of the switching module (SM), and can perform any of the following operations:

<table>
<thead>
<tr>
<th>To perform</th>
<th>Use:</th>
</tr>
</thead>
<tbody>
<tr>
<td>increment operation</td>
<td>target(1) = value(2) oper=plus value(3)</td>
</tr>
<tr>
<td>decrement operation</td>
<td>target(1) = value(2) oper=minus value(3)</td>
</tr>
<tr>
<td>multiply operation</td>
<td>target(1) = value(2) oper=mult value(3)</td>
</tr>
<tr>
<td>divide operation</td>
<td>target(1) = value(2) oper=div value(3)</td>
</tr>
<tr>
<td>logical AND operation</td>
<td>target(1) = value(2) oper=and value(3)</td>
</tr>
<tr>
<td>logical OR operation</td>
<td>target(1) = value(2) oper=or value(3)</td>
</tr>
<tr>
<td>logical XOR operation</td>
<td>target(1) = value(2) oper=xor value(3)</td>
</tr>
<tr>
<td>logical shift left operation</td>
<td>target(1) = value(2) oper=shl value(3)</td>
</tr>
<tr>
<td>logical shift right operation</td>
<td>target(1) = value(2) oper=shr value(3)</td>
</tr>
<tr>
<td>invert operation</td>
<td>target(1) = value(2) oper=invert</td>
</tr>
</tbody>
</table>

This message may be used together with any of the other SM generic utility input messages (refer to the input messages listed in the REFERENCES section).

If this message is used together with other utility messages, the END:UT-SM input message may be used to signal the end of the series of messages.

WARNING: The user is responsible for any effects on system operation that result from the use of this input message. Know the effects of the message before using it.

2. FORMAT

COPY:UT:SM=a[,MATE1],{ADDR1=b|REG1=c|UVAR1=d|GVAR1="e"|SYMIDX1=f} [,L1=g][,INDIR1=h][,OFF1=i[-i[-i]],EQ [,MATE2][,EA2],[ADDR2=j|REG2=k|UVAR2=l|GVAR2="m"|SYMIDX2=n|VAL2=o] [,L2=p][,INDIR2=q][,OFF2=r[-r[-r]],oper=s][,MATE3 [,EA3],[ADDR3=t|REG3=u|UVAR3=v|GVAR3="w"|SYMIDX3=x|VAL3=y]][,L3=z] [,INDIR3=a1][,OFF3=b1[-b1[-b1]]]{!|;}

3. EXPLANATION OF MESSAGE

Note: Variables 'b' through 'i' are field one of this message, this field is also described as the target field.

Note: Variables 'j' through 't' are field two of this message, this field is also described as the value(2) field. This field provides the source data for the target. This field can be modified by using one of the arithmetic operators together with the third field of the copy input message.

Note: Variables 's' through 'b1' are field three of this message, this field is also described as the value(3) field. This field is used together with the arithmetic operator to modify field two of this message.
EA2 = The value which is to be copied is the effective address of the message instead of the contents of the address for the second part of the input message.

EA3 = The value which is to be copied is the determined effective address of the message instead of the contents of the address for the third part of the input message.

MATE1 = Address, utility variable or symbolic address specified in the first part of the message is in MATE memory (default is active). REG1 and UVAR1 may be used with MATE1 only if a level of indirection is specified.

MATE2 = Address, utility variable or symbolic address specified in the second part of the message is in MATE memory (default is active). REG2 and UVAR2 may be used with MATE2 only if a level of indirection is specified.

MATE3 = Address, register, utility variable or symbolic address specified in the third part of the message is in MATE memory. REG3 and UVAR3 may be used with MATE3 only if a level of indirection is specified.

a = SM number.

b = Address that the value is to be copied into.

c = Name of register (address registers A0-A7, data registers D0-D7, program counter PC, or status register SR) that the value is to be copied into.

Note: This option of this input message can only be used as part of a generic utilities WHEN input message clause.

d = Utility variable (0-14) that the value is to be copied into.

e = Symbolic name of the global variable that the value is copied into. The name is entered as a string of up to 15 characters, enclosed in double quotation marks. If the symbol name is greater than 15 characters the symbol index number 'c' must be used to enter this input message using symbolic access. The global variable's symbol index number can be determined by using the DUMP:UT-SYMID input message.

f = Symbol index number of global variable. The symbol index can be determined for this processor by using the DUMP:UT-SYMID input message.

g = Length of the value to be used for the target part of the message (0-4). Default is 4 bytes for UVAR1 and REG1 unless REG1 is set to the status register where the default is 2 bytes. Default is 1 byte for ADDR1, GVAR1 and SYMIDX1.

h = Level of indirection (0-3) for the first part of the message. Default is 0.

i = The offsets, in bytes, at each level of indirection. They can range from 0-65535. However, offsets greater than 32767 will be treated as negative offsets. One offset can be specified per each level of indirection. Maximum number of offsets is 3. Default is 0.

j = Address that the value is to be copied from. This value can be modified by using one of the arithmetic operators together with any one of the addressing modes (or value) contained in the third field of the copy input message.

k = Name of register (address registers A0-A7, data registers D0-D7, program counter PC, or status register SR) that the value is to be copied from. This value can be modified by using one of the
arithmetic operators together with any one of the addressing modes (or value) contained in the third field of this message.

Note: This option of this input message can only be used as part of a generic utilities WHEN input message clause.

l = Utility variable (0-14) that the value is to be copied from. This value can be modified by using one of the arithmetic operators together with any one of the addressing modes (or value) contained in the third field of this message.

m = Symbolic name of the global variable that the value is to be copied from. The name is entered as a string of up to 15 characters, enclosed in double quotation marks. This value can be modified by using one of the arithmetic operators together with any one of the addressing modes (or value) contained in the third field of this input message. If the symbol name is greater than 15 characters the symbol index number 'n' must be used to enter this input message using symbolic access. The global variable's symbol index number can be determined by using the DUMP:UT-SYMID input message.

n = Symbol index number of global variable. The symbol index can be determined for this processor by using the DUMP:UT-SYMID input message. This value can be modified by using one of the arithmetic operators together with any one of the addressing modes (or value) contained in the third field of this input message.

O = Value to be copied. This value can be modified by using one of the arithmetic operators together with any one of the addressing modes (or value) contained in the third field of this message.

p = Length of the value to be used in the value(2) part of the message (0-4). Default is 4 bytes for UVAR2, VAL2, and REG2 unless REG2 is the status register where the default is 2 bytes; 1 byte for ADDR2, GVAR2 and SYMIDX2. If EA2 is specified, the length is set to 4 bytes.

q = Level of indirection (0-3) for the second part of the message. Default is 0.

r = The offsets, in bytes, at each level of indirection. They can range from 0-65535. However, offsets greater than 32767 will be treated as negative offsets. One offset can be specified per each level of indirection. Maximum number of offsets is 3. Default is 0.

s = Legal operator. Valid value(s):
   and = Performs logical "and" of the value in field 2 with the value of field 3.
   div = Divides the value of field 2 by the value of field 3.
   invert = Performs a logical binary inversion of the value in field 2.
   minus = Subtracts the value of field 3 from the value of field 2.
   mult = Multiplies the value of field 3 with the value of field 2.
   or = Performs logical "or" of the value in field 2 with the value of field 3.
   plus = Adds the value of field 3 to the value of field 2.
   shl = Shifts left the value in field 2 by the value of field 3.
   shr = Shifts right the value in field 2 by the value of field 3.
   xor = Performs logical "exclusive or" of the value in field 2 with the value of field 3.

T = An address whose contents may be used with one of the arithmetic operators to modify the addressing mode (or value) in the second field of this message.

u = Name of register (address registers A0-A7, data registers D0-D7, program counter PC, or status register SR) whose contents may be used with one of the arithmetic operators to modify the addressing mode (or value) in the second field of this message.
Note: This option of this input message can only be used as part of a generic utilities WHEN input message clause.

\(v\) = Utility variable (0-14) whose contents may be used with one of the arithmetic operators to modify the addressing mode (or value) in the second field of this message.

\(w\) = Symbolic name of the global variable whose contents may be used with one of the arithmetic operators to modify the addressing mode (or value) in the second field of this input message. The name is entered as a string of up to 15 characters, enclosed in double quotation marks. If the symbol name is greater than 15 characters the symbol index number 'x' must be used to enter this input message using symbolic access. The global variable's symbol index number can be determined by using the DUMP:UT-SYMID input message.

\(x\) = Symbol index number of global variable. The symbol index can be determined for this processor by using the DUMP:UT-SYMID input message.

\(y\) = Value that may be used with one of the arithmetic operators to modify the addressing mode (or value) in the second field of this message.

\(z\) = Length of the value to be used in the value (3) part of the message (0-4). Default is 4 bytes for UVAR3, VAL3, and REG3 unless REG3 is the status register where the default is 2 bytes; 1 byte for ADDR3, GVAR3 and SYMIDX3. If EA3 is specified, the length is always set to 4 bytes.

\(a^1\) = Level of the indirection (0-3) for the third field of copy input message. Default is 0.

\(b^1\) = The offsets, in bytes, at each level of indirection. They can range from 0-65535. However, offsets greater than 32767 will be treated as negative offsets. One offset can be specified per each level of indirection. Maximum number of offsets is 3. Default is 0.

4. SYSTEM RESPONSE

Refer to the APP:UT-IM-REASON appendix in the Appendixes section of the Input Messages manual.

5. REFERENCES

Input Message(s):

ALW:UT-SM
CLR:UT-SM
DUMP:UT-SM
DUMP:UT-SYMID
ELSE:UT-SM
END:UT-SM
EXC:UT-SM
IF:UT-SM
IF:UT-SM-ENDIF
INH:UT-SM
LOAD:UT-SM
OP:UT-SM
WHEN:UT-SM

Output Message(s):
COPY:UT-SM-B

Software Release: 5E16(2) and later
Command Group: SFTUTIL
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Requests that a value be copied into an address, register, global variable (specified by name or symbol index), or utility variable of the switching module (SM), and can perform specific operations. These include:

<table>
<thead>
<tr>
<th>To perform:</th>
<th>Use:</th>
</tr>
</thead>
<tbody>
<tr>
<td>increment operation</td>
<td>target(1) = value(2) oper=plus value(3)</td>
</tr>
<tr>
<td>decrement operation</td>
<td>target(1) = value(2) oper=minus value(3)</td>
</tr>
<tr>
<td>multiply operation</td>
<td>target(1) = value(2) oper=mult value(3)</td>
</tr>
<tr>
<td>divide operation</td>
<td>target(1) = value(2) oper=div value(3)</td>
</tr>
<tr>
<td>logical AND operation</td>
<td>target(1) = value(2) oper=and value(3)</td>
</tr>
<tr>
<td>logical OR operation</td>
<td>target(1) = value(2) oper=or value(3)</td>
</tr>
<tr>
<td>logical XOR operation</td>
<td>target(1) = value(2) oper=xor value(3)</td>
</tr>
<tr>
<td>logical shift left operation</td>
<td>target(1) = value(2) oper=shl value(3)</td>
</tr>
<tr>
<td>logical shift right operation</td>
<td>target(1) = value(2) oper=shr value(3)</td>
</tr>
<tr>
<td>invert operation</td>
<td>target(1) = value(2) oper=invert</td>
</tr>
</tbody>
</table>

The microprocessor registers used in this message will vary based on the SM software configuration. If the software configuration is CNFG2KPPC the microprocessor is PowerPC® based. All others configurations are M680x0 based.

This message may be used together with any of the other SM generic utility input messages (refer to the input messages listed in the REFERENCES section).

If this message is used together with other utility messages, the END:UT-SM input message may be used to signal the end of the series of messages.

WARNING: The user is responsible for any effects on system operation that result from the use of this input message. Know the effects of the message before using it.

During patch space recovery operation, UT will modify its normal behavior to force non-mate operation to write only the local memory even if both MCTSIss are in service. Therefore, in order to have operations happen on both sides, the user needs to run the command twice, first for the active side, then for the mate side.

2. FORMAT

COPY:UT:SM=a[,MATE1],{ADDR1=b|REG1=c|UVAR1=d|GVAR1="e"|SYMIDX1=f}[,L1=g][,INDIR1=h][,OFF1=i[-i][-i]],EQ[,]MATE2[,EA2],{ADDR2=j|REG2=k|UVAR2=l|GVAR2="m"|SYMIDX2=n|VAL2=o}[,L2=p][,INDIR2=q][,OFF2=r[-r][-r]],[,]MATE3[,]EA3[,ADDR3=t|REG3=u|UVAR3=v|GVAR3="w"|SYMIDX3=x|VAL3=y][,L3=z][,INDIR3=a1][,OFF3=b1[-b1][-b1]][,;]

3. EXPLANATION OF MESSAGE

NOTE 1: Variables 'b' through 'i' are field one of this message, this field is also described as the target field.
**NOTE 2:** Variables 'j' through 'r' are field two of this message, this field is also described as the value(2) field. This field provides the source data for the target. This field can be modified by using one of the arithmetic operators together with the third field of the copy input message.

**NOTE 3:** Variables 's' through 'b' are field three of this message, this field is also described as the value(3) field. This field is used together with the arithmetic operator to modify field two of this message.

EA2 = The value which is to be copied is the effective address of the message instead of the contents of the address for the second part of the input message.

EA3 = The value which is to be copied is the determined effective address of the message instead of the contents of the address for the third part of the input message.

MATE1 = Address, utility variable or symbolic address specified in the first part of the message is in MATE memory (default is active and mate unless it is during patch space recovery operation). REG1 and UVAR1 may be used with MATE1 only if a level of indirection is specified.

MATE2 = Address, utility variable or symbolic address specified in the second part of the message is in MATE memory (default is active and mate unless it is during patch space recovery operation). REG2 and UVAR2 may be used with MATE2 only if a level of indirection is specified.

MATE3 = Address, register, utility variable or symbolic address specified in the third part of the message is in MATE memory (default is active and mate unless it is during patch space recovery operation). REG3 and UVAR3 may be used with MATE3 only if a level of indirection is specified.

*a* = SM number.

*b* = Address that the value is to be copied into.

*c* = Name of a specific register where data is copied to. Valid value(s):

<table>
<thead>
<tr>
<th>SM Software Configuration:</th>
<th>Registers:</th>
</tr>
</thead>
<tbody>
<tr>
<td>CNFG2KPPC</td>
<td>CR = Condition register.</td>
</tr>
<tr>
<td></td>
<td>CTR = Count register.</td>
</tr>
<tr>
<td></td>
<td>GPR0 = General purpose register.</td>
</tr>
<tr>
<td></td>
<td>GPR2-GPR31 = General purpose registers.</td>
</tr>
<tr>
<td></td>
<td>LR = Link register.</td>
</tr>
<tr>
<td></td>
<td>MSR = Machine state register.</td>
</tr>
<tr>
<td></td>
<td>PC = Program counter.</td>
</tr>
<tr>
<td></td>
<td>SP = General purpose register (also known as GPR1).</td>
</tr>
<tr>
<td></td>
<td>XER = The external interrupt mask register (integer exception).</td>
</tr>
</tbody>
</table>

| Not CNFG2KPPC            | A0-A5 = Address registers. |
|                         | A6 = The frame pointer (FP). |
|                         | A7 = The stack pointer (SP). |
|                         | D0-D7 = Data registers. |
|                         | PC = Program counter. |
|                         | SR = Status register. |

This option of this input message can only be used as part of a generic utilities WHEN input message clause.

*d* = Utility variable (0-14) that the value is to be copied into.
= Symbolic name of the global variable that the value is copied into. The name is entered as a string of up to 15 characters, enclosed in double quotation marks. If the symbol name is greater than 15 characters the symbol index number ‘e’ must be used to enter this input message using symbolic access. The global variable's symbol index number can be determined by using the DUMP:UT-SYMID input message.

f = Symbol index number of global variable. The symbol index can be determined for this processor by using the DUMP:UT-SYMID input message.

g = Length of the value to be used for the target part of the message (0-4). Default is 4 bytes for UVAR1 and REG1 unless REG1 is set to the status register where the default is 2 bytes. Default is 1 byte for ADDR1, GVAR1 and SYMIDX1.

h = Level of indirection (0-3) for the first part of the message. Default is 0.

i = The offsets, in bytes, at each level of indirection. They can range from 0-65535. However, offsets greater than 32767 will be treated as negative offsets. One offset can be specified per each level of indirection. Maximum number of offsets is 3. Default is 0.

j = Address that the value is to be copied from. This value can be modified by using one of the arithmetic operators together with any one of the addressing modes (or value) contained in the third field of the copy input message.

k = Name of a specific register where data is copied to. Valid value(s):

<table>
<thead>
<tr>
<th>SM Software Configuration:</th>
<th>Registers:</th>
</tr>
</thead>
<tbody>
<tr>
<td>CNFG2KPPC</td>
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<tr>
<td></td>
<td>CTR = Count register.</td>
</tr>
<tr>
<td></td>
<td>GPR0 = General purpose register.</td>
</tr>
<tr>
<td></td>
<td>GPR2—GPR31 = General purpose registers.</td>
</tr>
<tr>
<td></td>
<td>LR = The link register.</td>
</tr>
<tr>
<td></td>
<td>MSR = Machine state register.</td>
</tr>
<tr>
<td></td>
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</tr>
<tr>
<td></td>
<td>SP = General purpose register (also known as GPR1).</td>
</tr>
<tr>
<td></td>
<td>XER = The external interrupt mask register (integer exception).</td>
</tr>
<tr>
<td>Not CNFG2KPPC</td>
<td>A0—A5 = Address registers.</td>
</tr>
<tr>
<td></td>
<td>A6 = The frame pointer (FP).</td>
</tr>
<tr>
<td></td>
<td>A7 = The stack pointer (SP).</td>
</tr>
<tr>
<td></td>
<td>D0—D7 = Data registers.</td>
</tr>
<tr>
<td></td>
<td>PC = Program counter.</td>
</tr>
<tr>
<td></td>
<td>SR = Status register.</td>
</tr>
</tbody>
</table>

This option of this input message can only be used as part of a generic utilities WHEN input message clause.

l = Utility variable (0-14) that the value is to be copied from. This value can be modified by using one of the arithmetic operators together with any one of the addressing modes (or value) contained in the third field of this message.

m = Symbolic name of the global variable that the value is to be copied from. The name is entered as a string of up to 15 characters, enclosed in double quotation marks. This value can be modified by using one of the arithmetic operators together with any one of the addressing modes (or value)
contained in the third field of this input message. If the symbol name is greater than 15 characters
the symbol index number ‘n’ must be used to enter this input message using symbolic access. The
global variable’s symbol index number can be determined by using the DUMP:UT-SYMID input
message.

\[ n \] = Symbol index number of global variable. The symbol index can be determined for this processor
by using the DUMP:UT-SYMID input message. This value can be modified by using one of the
arithmetic operators together with any one of the addressing modes (or value) contained in the third
field of this input message.

\[ o \] = Value to be copied. This value can be modified by using one of the arithmetic operators together
with any one of the addressing modes (or value) contained in the third field of this message.

\[ p \] = Length of the value to be used in the value(2) part of the message (0-4). Default is 4 bytes for
UVAR2, VAL2, and REG2 unless REG2 is the status register where the default is 2 bytes; 1 byte for
ADDR2, GVAR2 and SYMIDX2. If EA2 is specified, the length is set to 4 bytes.

\[ q \] = Level of indirection (0-3) for the second part of the message. Default is 0.

\[ r \] = The offsets, in bytes, at each level of indirection. They can range from 0-65535. However, offsets
greater than 32767 will be treated as negative offsets. One offset can be specified per each level of
indirection. Maximum number of offsets is 3. Default is 0.

\[ s \] = Legal operator. Valid value(s):
- and = Performs logical "and" of the value in field 2 with the value of field 3.
- div = Divides the value of field 2 by the value of field 3.
- invert = Performs a logical binary inversion of the value in field 2.
- minus = Subtracts the value of field 3 from the value of field 2.
- mult = Multiplies the value of field 3 with the value of field 2.
- or = Performs logical "or" of the value in field 2 with the value of field 3.
- plus = Adds the value of field 3 to the value of field 2.
- shl = Shifts left the value in field 2 by the value of field 3.
- shr = Shifts right the value in field 2 by the value of field 3.
- xor = Performs logical "exclusive or" of the value in field 2 with the value of field 3.

\[ t \] = An address whose contents may be used with one of the arithmetic operators to modify the
addressing mode (or value) in the second field of this message.

\[ u \] = Name of a specific register where data is copied to. Valid value(s):

<table>
<thead>
<tr>
<th>SM Software Configuration:</th>
<th>Registers:</th>
</tr>
</thead>
<tbody>
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<td>XER = The external interrupt mask register (integer exception).</td>
</tr>
<tr>
<td>Not CNFG2KPPC</td>
<td>A0-A5 = Address registers.</td>
</tr>
<tr>
<td></td>
<td>A6 = The frame pointer (FP).</td>
</tr>
</tbody>
</table>
A7 = The stack pointer (SP).
D0-D7 = Data registers.
PC = Program counter.
SR = Status register.

This option of this input message can only be used as part of a generic utilities WHEN input message clause.

\[ v \] = Utility variable (0-14) whose contents may be used with one of the arithmetic operators to modify the addressing mode (or value) in the second field of this message.

\[ w \] = Symbolic name of the global variable whose contents may be used with one of the arithmetic operators to modify the addressing mode (or value) in the second field of this input message. The name is entered as a string of up to 15 characters, enclosed in double quotation marks. If the symbol name is greater than 15 characters the symbol index number \( x \) must be used to enter this input message using symbolic access. The global variable's symbol index number can be determined by using the DUMP:UT-SYMID input message.

\[ x \] = Symbol index number of global variable. The symbol index can be determined for this processor by using the DUMP:UT-SYMID input message.

\[ y \] = Value that may be used with one of the arithmetic operators to modify the addressing mode (or value) in the second field of this message.

\[ z \] = Length of the value to be used in the value (3) part of the message (0-4). Default is 4 bytes for UVAR3, VAL3, and REG3 unless REG3 is the status register where the default is 2 bytes; 1 byte for ADDR3, GVAR3 and SYMIDX3. If EA3 is specified, the length is always set to 4 bytes.

\[ a^1 \] = Level of the indirection (0-3) for the third field of copy input message. Default is 0.

\[ b^1 \] = The offsets, in bytes, at each level of indirection. They can range from 0-65535. However, offsets greater than 32767 will be treated as negative offsets. One offset can be specified per each level of indirection. Maximum number of offsets is 3. Default is 0.

4. SYSTEM RESPONSE

Refer to the APP:UT-IM-REASON appendix in the Appendixes section of the Input Messages manual.

5. REFERENCES

Input Message(s):

ALW:UT-SM
CLR:UT-SM
DUMP:UT-SM
DUMP:UT-SYMID
ELSE:UT-SM
END:UT-SM
EXC:UT-SM
IF:UT-SM
IF:UT-SM-ENDIF
INH:UT-SM
LOAD:UT-SM
OP:UT-SM
WHEN: UT-SM

Output Message(s):
COPY: UT-SM

Input Appendix(es):
APP: UT-IM-REASON

Output Appendix(es):
APP: UT-OM-REASON

Other Manual(s):
235-105-110   System Maintenance Requirements and Tools
235-600-400   Audits
COPY:UVAR

Software Release: 5E14 and later
Command Group: SFTUTIL
Application: 5,3B
Type: Input

1. PURPOSE

Requests that data be copied from an administrative module (AM) generic access package (GRASP) in utility variable to virtual addresses in main memory and in registers as an action associated with a breakpoint. Copies data from another GRASP utility variable as an immediate action or as an action triggered by a breakpoint.

Indirect addressing may be specified. The first listed offset is added to the value of the source address and the result is used as a virtual address of a location in main memory. The number of offsets specified defines the length of the chain of virtual addresses to be accessed in this way before accessing the desired range of source locations. For example, a single offset with value 0 uses the virtual address found in the source for the location to be copied. Format 1 is a required by action to be triggered by a breakpoint. Format 2 is either executed immediately or triggered by a breakpoint.

2. FORMAT

[1] COPY:UVAR=a[,OFF=b][,L=c|,NL=d]{:ADDR=e|:REG=f}[:WORD]!
[2] COPY:UVAR=a[,L=c|,NL=d]:UVAR=g{:WORD}{!|;}

3. EXPLANATION OF MESSAGE

WORD = Indicates that all addresses, offsets, and lengths are to be interpreted in terms of words, including addresses derived in address chains. If this option is omitted, values given are assumed to be in bytes.

a = A GRASP utility variable, in decimal, as the source for the copy. Utility variable values are reset to zero at the end of a debugging session.

b = A single offset or list of up to five offsets. Omission of the keyword implies no indirect addressing. Offsets are in bytes unless the WORD option is specified. (Used as an action associated with a breakpoint.)

c = The length of the copy in bytes unless the WORD option is specified, in which case, the maximum is 128 bytes or 32 words. The default is 1.

d = The operation should use the locations beginning 'd' lower than the calculated address and ending at the address. The locations are used in ascending order.

e = The destination virtual address for the data in decimal, octal, or hexadecimal notation. (Used as an action associated with a breakpoint.)

f = The register to be written as the destination of the copy. (Used as an action associated with a breakpoint.) Valid value(s):
   AP = Argument pointer.
   ATBBGR = Register used by the ATB miss routine to temporarily store the bi-directional gating register (BGR).
   ATBPSW = Register used by the ATB miss routine to temporarily store the program status word (PSW) register.
<table>
<thead>
<tr>
<th>ATBQ</th>
<th>Register used by the ATB miss routine to temporarily store the 'q' register.</th>
</tr>
</thead>
<tbody>
<tr>
<td>ATBSAR</td>
<td>Register address used by the address translation buffer (ATB) miss routine to temporarily store the store address register (SAR) contents.</td>
</tr>
<tr>
<td>ATBSCR</td>
<td>Register used by the ATB miss routine to temporarily store the store control register (SCR) contents.</td>
</tr>
<tr>
<td>ATBSDR</td>
<td>Register used by the ATB miss routine to temporarily store the store data register (SDR) content.</td>
</tr>
<tr>
<td>BGR</td>
<td>Bi-directional gating register.</td>
</tr>
<tr>
<td>CAR</td>
<td>Channel address register.</td>
</tr>
<tr>
<td>CDR</td>
<td>Channel data register.</td>
</tr>
<tr>
<td>ERC</td>
<td>Error register (ER) clear.</td>
</tr>
<tr>
<td>FP</td>
<td>Frame pointer.</td>
</tr>
<tr>
<td>HG</td>
<td>Reserved register.</td>
</tr>
<tr>
<td>HSR</td>
<td>Hardware status register.</td>
</tr>
<tr>
<td>HSRBGC</td>
<td>Bi-directional gating control bits of the hardware status register (HSR).</td>
</tr>
<tr>
<td>IM</td>
<td>Interrupt mask register.</td>
</tr>
<tr>
<td>ISC</td>
<td>IS (interrupt source) register clear.</td>
</tr>
<tr>
<td>ISS</td>
<td>Interrupt source (IS) register set.</td>
</tr>
<tr>
<td>PA</td>
<td>Program address register.</td>
</tr>
<tr>
<td>PPR</td>
<td>Pulse point register.</td>
</tr>
<tr>
<td>PSW</td>
<td>Program status word.</td>
</tr>
<tr>
<td>R0</td>
<td>General register R0.</td>
</tr>
<tr>
<td>R1</td>
<td>General register R1.</td>
</tr>
<tr>
<td>R2</td>
<td>General register R2.</td>
</tr>
<tr>
<td>R3</td>
<td>General register R3.</td>
</tr>
<tr>
<td>R4</td>
<td>General register R4.</td>
</tr>
<tr>
<td>R5</td>
<td>General register R5.</td>
</tr>
<tr>
<td>R7</td>
<td>General register R7.</td>
</tr>
<tr>
<td>R8</td>
<td>General register R8.</td>
</tr>
<tr>
<td>R9</td>
<td>Argument pointer.</td>
</tr>
<tr>
<td>R10</td>
<td>Frame pointer.</td>
</tr>
<tr>
<td>R11</td>
<td>Stack pointer.</td>
</tr>
<tr>
<td>RNULL</td>
<td>Null register.</td>
</tr>
<tr>
<td>RTC</td>
<td>Real time clock.</td>
</tr>
<tr>
<td>SBR0</td>
<td>Segment base register SBR0.</td>
</tr>
<tr>
<td>SBR1</td>
<td>Segment base register SBR1.</td>
</tr>
<tr>
<td>SBR2</td>
<td>Segment base register SBR2.</td>
</tr>
<tr>
<td>SBR3</td>
<td>Segment base register SBR3.</td>
</tr>
<tr>
<td>SBR4</td>
<td>Segment base register SBR4.</td>
</tr>
<tr>
<td>SBR5</td>
<td>Segment base register SBR5.</td>
</tr>
<tr>
<td>SBR6</td>
<td>Segment base register SBR6.</td>
</tr>
<tr>
<td>SBR7</td>
<td>Segment base register SBR7.</td>
</tr>
<tr>
<td>SCRATCH0</td>
<td>JE group temp subgroup scratch register SCRATCH0.</td>
</tr>
<tr>
<td>SCRATCH1</td>
<td>JE group temp subgroup scratch register SCRATCH1.</td>
</tr>
<tr>
<td>SDR</td>
<td>Store data register.</td>
</tr>
<tr>
<td>SP</td>
<td>Stack pointer SP.</td>
</tr>
<tr>
<td>SSRC</td>
<td>System status register (SSR) clear.</td>
</tr>
<tr>
<td>SSRS</td>
<td>SSR set.</td>
</tr>
<tr>
<td>SYSBASE</td>
<td>Beginning address of UNIX® RTR Operating System tab.</td>
</tr>
<tr>
<td>T0</td>
<td>JE group temp subgroup scratch register T0.</td>
</tr>
</tbody>
</table>
T1 = JE group temp subgroup scratch register T1.
T2 = JE group temp subgroup scratch register T2.
T3 = JE group temp subgroup scratch register T3.
T4 = JE group temp subgroup scratch register T4.
T5 = JE group temp subgroup scratch register T5.
T6 = JE group temp subgroup scratch register T6.
T7 = JE group temp subgroup scratch register T7.

TIMERS = Timing circuit.
TOPIS = Interrupt stack pointer.
UINT0 = Error microinterrupt handler register UINT0.
UINT1 = Error microinterrupt handler register UINT1.
UINT2 = Error microinterrupt handler register UINT2.
UINT3 = Error microinterrupt handler register UINT3.
UINTER = Shadow error register (uint_er) loaded during an error microinterrupt.

g = A GRASP utility variable, in decimal, to be written as the destination copy. Utility variable values are reset to 0 at the end of a debugging session. (Can be used as an immediate action or associated with a breakpoint.)

4. SYSTEM RESPONSE

?I = General syntax error. May also include:
- EXTRA KEYWORD (OFF) = Indirection not allowed except as action of a WHEN.
- INCONSISTENT KEYWORDS (NL-OFF) = Negative length not allowed without OFF.
- INVALID KEYWORD = Destination of ADDR or REG not valid outside of a WHEN action list.
- RANGE ERROR (UVAR) = Invalid utility variable number was specified.
- RANGE ERROR (L or NL) = Length specified is too long.

IP = In progress. The message has been added to the WHEN action list.

NG = No good. May also include:
- BAD REG NAME = A named register is not a valid destination.

PF = Printout follows. Followed by the COPY:UVAR output message.

RL = Retry later. The system is in an overload condition or completing the previous OP:UMEM input message.

5. REFERENCES

Input Message(s):

DUMP:UVAR
LOAD:ADDR
LOAD:REG
LOAD:UVAR
OP:UMEM
WHEN:PID
WHEN:UID
Output Message(s):

COPY: ADDR
COPY: PID
COPY: REG
COPY: UID
COPY: UVAR
21. CPY
CPY:AMATAPE

Software Release: 5E14 and later
Command Group: AMA
Application: 5
Type: Input

1. PURPOSE

Requests that primary or secondary automatic message accounting (AMA) data records be copied onto tape.

2. FORMAT

CPY:AMATAPE: {PRIM|SEC,SBLK=a,EBLK=b},MT=c [,ST1|,ST2];

3. EXPLANATION OF MESSAGE

PRIM = Write primary data.
SEC = Write secondary data.
ST1 = Used if AMA data goes to the ST1 data stream.
ST2 = Used if AMA data goes to the ST2 data stream.

NOTE: For a single data stream office, the stream does not have to be specified as either an ST1 or ST2. However, for a dual stream office, the stream must be specified as either an ST1 or ST2.

a = Sequence number of the first block of secondary data required. This variable is used only if secondary data is being written onto tape. For secondary data, it is not possible to transmit the oldest 51 blocks of secondary data. Therefore, this number may not reflect the actual first block of secondary data transmitted in the case where the first block falls in that range. To determine the oldest secondary block of data, use OP:AMA-MAPS and determine the FSS from the right side of the maps for the WRITE PARTITION listed at the top of the OP:AMA-MAPS output. This block plus the 50 blocks following cannot be accessed. This is necessary since the oldest secondary AMA data could be overwritten by primary AMA data while a secondary session is in progress.

b = Sequence number of the last block of secondary data required. This variable is used only if secondary data is being written onto tape.

c = Tape drive number.

4. SYSTEM RESPONSE

IP = In progress. Tape writing is allowed and the message was successfully sent to start the tape writing session. When tape writing is completed either a REPT:AMATAPE-ERR message or a REPT:AMATAPE-COMP message will be output indicating the outcome of the request.

NG = No good. The teleprocessing option is in effect, a tape session is already in progress, or data transfer sessions have been manually inhibited, or data stream checks have failed.

PF = Printout follows. Invalid internal data was encountered while processing the input message. An audit printout will follow.
RL = Retry later. A message could not be sent to start the tape writing process.

5. REFERENCES

Input Message(s):

ABT: AMATAPE
ALW: AMA-SESSION
INH: AMA-SESSION
OP: AMA-STREAM
STP: AMATAPE
OP: AMA-CONTROLF
OP: AMA-MAPS

Output Message(s):

REPT: AMATAPE-COMP
REPT: AMATAPE-ERR
REPT: AMA-DISK-MAP
22. DEL
DEL:ACSR
Software Release: 5E14 and later
Command Group: RCV
Application: 5
Type: Input

1. PURPOSE
Requests that one or all automatic customer station rearrangement (ACSR) requests be deleted from the ACSR queue.

2. FORMAT
DEL:ACSR,{PDN=a|ALL};

3. EXPLANATION OF MESSAGE
ALL = Delete all requests from the ACSR queue.
a = Primary directory number (PDN). The PDN value may be a 7 or 10 digit directory number (DN). If the NXX exists in more than one area code (i.e., NPA), a 10 digit DN must be entered.

4. SYSTEM RESPONSE
PF = Printout follows. The DEL:ACSR output message follows.

5. REFERENCES
Input Message(s):
   OP:ACSR

Output Message(s):
   DEL:ACSR
   OP:ACSR
DEL:FACR

**Software Release:** 5E14 and later  
**Command Group:** FHADM  
**Application:** 5  
**Type:** Input

1. **PURPOSE**

Requests that a scheduled feature activation counting and reconciliation (FACR) entry be removed.

2. **FORMAT**

```
DEL:FACR:ID=a;
```

3. **EXPLANATION OF MESSAGE**

`a` = Request ID of the scheduled FACR entry to be removed. ID may be obtained by executing the OP:FACR input message.

4. **SYSTEM RESPONSE**

```
PF = Printout follows. Followed by the DEL:FACR output message.
```

5. **REFERENCES**

**Input Message(s):**

```
OP:FACR  
SCHED:FACR
```

**Output Message(s):**

```
DEL:FACR  
OP:FACR  
SCHED:FACR
```

**Other Manual(s):**

- 235-040-100 *OA&M Planning Guide*
- 235-100-125 *System Description*
1. PURPOSE

Requests deletion of selected contents of a logfile and cleans out corrupt entries from the file. If the filename is the only criterion entered, only corrupt entries are deleted. Otherwise, only entries in the logfile that meet all the specified criteria are deleted.

Two formats are given, depending on the form of specifying starting and ending dates and times.

2. FORMAT

[1] `DEL:LOG:LG="a"":[DATE=b[&&c],][KW="f"][ID=g][TYPE=h]];

[2] `DEL:LOG:LG="a"":[DATE=i[&&j],][TIME=d[&&e],][KW="f"][ID=g][TYPE=h]];

3. EXPLANATION OF MESSAGE

a = Name of the logfile. Any valid administrative module (AM) logfile name. For example: ULARP, DAYLOG.

b = Start date as a six-digit format (mmddyy) or ten-digit format (mmddyyhhmm). For example, 100257 = October 2, 1957; 0102571000 = January 2, 1957, at 10:00 a.m.

c = End date as six-digit format (mmddyy) or ten-digit format (mmddyyhhmm). The default is the start date. If supplied, this date must be in the same format (six or ten digits) as the start date.

d = Start time in hours and minutes format (hhmm). For example, 0110 = 1:10 a.m.

e = End time in hours and minutes format (hhmm). For example, 1530 = 3:30 p.m. The default is the start time.

NOTE: When the six-digit date range is used in conjunction with a time range, the log entries will be deleted from start time to end time for each day in the range of start date through end date.

The ten-digit date allows the user to delete log entries from the start time on the start date until the end time on the end date. Specifying the start time (variable 'd') and end time (variable 'e') with the ten-digit date range is invalid.

f = A keyword that appears in all entries that are to be deleted.

g = An optional four-digit decimal number that is used to link an item in a logfile with an entry in another file. The ID is filled in by the process that made the logfile entry: for example, 1234, 0017, 0003.

h = An optional four-digit decimal number that specifies the type of entry on a logfile. This type is filled in by the process that made the logfile entry; for example, 1234, 0945, 0005.

i = Start date, given as a six-digit number in the form mmddyy.
j = End date, given as a six-digit number in the form mmddyy. Default is the start date.

4. SYSTEM RESPONSE

IP = In progress.

NG = No good. May also include:
   - CANNOT ATTACH TO ECD = Could not attach to the equipment configuration database (EDC).

5. REFERENCES

Input Message(s):

OP : LOG

Output Message(s):

DEL : LOG
OP : LOG

Other Manual(s):
235-105-250 System Recovery Procedures
235-600-400 Audits Manual
235-105-210 Routine Operations and Maintenance
DEL:PAUTH

Software Release: 5E14 and later
Command Group: AUTH
Application: 5,3B
Type: Input

1. PURPOSE

Deletes a person identity (IDENT) from the person authority database (PAUTH).

This input message is used in administering security of the maintenance interface. Refer to the Routine Operations and Maintenance manual for authority administration information.

2. FORMAT

DEL:PAUTH:IDENT="a";  

3. EXPLANATION OF MESSAGE

a = Identity of person authority to delete from the person authority database, in one to eight letters and/or digits.

4. SYSTEM RESPONSE

NG = No good. Valid value(s):
    - NON-EXISTENT PERSON IDENTITY = The given person identity does not exist in the person authority database.
    - UNABLE TO ACCESS AUTHORITY ADMINISTRATION = The person authority database is inaccessible.

OK = Good. Identity deleted from person authority database.

RL = Retry later. Valid value(s):
    - AUTHORITY ADMINISTRATION UNDER UPDATE = The person authority database is currently being updated.

5. REFERENCES

Input Message(s):

ADD:PAUTH
CHG:PAUTH
VFY:PAUTH

Output Message(s):

VFY:PAUTH

Other Manual(s):
DEL:PCGRP

**Software Release:** 5E14 and later  
**Command Group:** AUTH  
**Application:** 5,3B  
**Type:** Input

1. PURPOSE

This input message deletes a command group or profile from the person-command group (PCGRP) relation for a given person identity (IDENT).

Format 1 disassociates a command group (COMGR) from a person identity (IDENT), preventing the user from accessing this group of commands. Format 2 disassociates a command profile (PROFL) from a person identity, preventing the user from accessing this command profile. This input message is used in administering security of the maintenance interface. Refer to the Routine Operations and Maintenance manual for authority administration information.

2. FORMAT

[1] DEL:PCGRP:IDENT=a,COMGR=b;

[2] DEL:PCGRP:IDENT=a,PROFL=c;

3. EXPLANATION OF MESSAGE

<table>
<thead>
<tr>
<th>a</th>
<th>= Identity of the person in one to eight letters and/or digits.</th>
</tr>
</thead>
<tbody>
<tr>
<td>b</td>
<td>Command group. Valid value(s):</td>
</tr>
<tr>
<td></td>
<td>ADMIN = System administrator only activities.</td>
</tr>
<tr>
<td></td>
<td>ALARM = Alarm manipulation.</td>
</tr>
<tr>
<td></td>
<td>AM = Administrative module maintenance.</td>
</tr>
<tr>
<td></td>
<td>AMA = Automatic message accounting.</td>
</tr>
<tr>
<td></td>
<td>AUDIT = Audits.</td>
</tr>
<tr>
<td></td>
<td>AUTH = Command and authority administration.</td>
</tr>
<tr>
<td></td>
<td>CCS = Common channel signaling.</td>
</tr>
<tr>
<td></td>
<td>CM = Communications module maintenance.</td>
</tr>
<tr>
<td></td>
<td>FHADM = File handling and administration.</td>
</tr>
<tr>
<td></td>
<td>MAINT = Routine maintenance activities.</td>
</tr>
<tr>
<td></td>
<td>MEAS = Measurements.</td>
</tr>
<tr>
<td></td>
<td>NMOC = Network management and overload control.</td>
</tr>
<tr>
<td></td>
<td>ODD = Office dependent data activities.</td>
</tr>
<tr>
<td></td>
<td>PASS = Personal password modification.</td>
</tr>
<tr>
<td></td>
<td>RCV = Recent change and verify activities.</td>
</tr>
<tr>
<td></td>
<td>SM = Switching module maintenance.</td>
</tr>
<tr>
<td></td>
<td>SPECRCV = Special RC/V input messages.</td>
</tr>
<tr>
<td></td>
<td>SFTMG = Software management (update, software release retrofit).</td>
</tr>
<tr>
<td></td>
<td>SFTUTIL = Software utilities.</td>
</tr>
<tr>
<td></td>
<td>SUPERUSR = Super user authority (bypass terminal authority).</td>
</tr>
<tr>
<td></td>
<td>SYSRCVY = System recovery activities.</td>
</tr>
<tr>
<td></td>
<td>TRACE = Call trace.</td>
</tr>
<tr>
<td></td>
<td>TRKLN = Trunk and line maintenance.</td>
</tr>
</tbody>
</table>
Refer to the APP:COMMAND-GRP appendix in the Appendixes section of the Input Messages manual for more details.

C

= A profile name which has been previously created using ADD:PROFL and assigned to this user with ADD:PCGRP. The name is one to eight letters and/or digits.

4. SYSTEM RESPONSE

NG

= No good. May also include:
- COMMAND GROUP NOT ASSIGNED TO THIS PERSON = The given command group was never assigned to this person identity.
- NON-EXISTENT PERSON IDENTITY = The given person identity does not exist in the person authority database.
- PROFILE IDENTITY DOES NOT EXIST = The command profile does not exist in the profile authority database.
- PROFILE NOT ASSIGNED = The given command profile was never assigned to this person identity.
- UNABLE TO ACCESS AUTHORITY ADMINISTRATION = The person authority database is inaccessible.

OK

= Good. The command group or profile is no longer associated with the person identity.

RL

= Retry later. May also include:
- AUTHORITY ADMINISTRATION UNDER UPDATE = The person authority database is currently being updated.

5. REFERENCES

Input Message(s):
ADD:PAUTH
ADD:PROFL
ADD:PCGRP
CHG:PROFL
DEL:PAUTH
DEL:PCGRP
DEL:PROFL
V FY:PAUTH
V FY:PCGRP
V FY:PROFL

Output Message(s):
V FY:PAUTH
V FY:PCGRP
V FY:PROFL

Input Appendix(es):
APP:COMMAND-GRP
Other Manual(s):
235-105-210    *Routine Operations and Maintenance*
DEL:PROFL

Software Release: 5E14 and later
Command Group: AUTH
Application: 5,3B
Type: Input

1. PURPOSE

Deletes a profile identity (IDENT) from the profile authority database (PROFL). A profile is a set of command groups, which are detailed in the APP:COMMAND-GRP appendix of the Input Messages manual. The profile is also deleted from any person authority (PAUTH) to which it is assigned.

This input message is used in administering security of the maintenance interface. Refer to the Routine Operations and Maintenance manual for authority administration information.

2. FORMAT

DEL:PROFL:IDENT=a;

3. EXPLANATION OF MESSAGE

a = Identifying name of the profile to be deleted from the database. A maximum of eight characters may be used.

4. SYSTEM RESPONSE

NG = No good. May also include:
- PROFILE IDENTITY DOES NOT EXIST = The given profile identity does not exist in the profile authority database.
- UNABLE TO ACCESS PROFILE ADMINISTRATION = The profile authority database is inaccessible.

OK = Good. The profile is successfully deleted from the profile authority database.

RL = Retry later. May also include:
- AUTHORITY ADMINISTRATION UNDER UPDATE = The person authority database (PAUTH) is currently being updated.
- PROFILE ADMINISTRATION UNDER UPDATE = The profile authority database (PROFL) is currently being updated.

5. REFERENCES

Input Message(s):

ADD:PCGRP
ADD:PROFL
CHG:PROFL
DEL:PCGRP
VFY:PCGRP
VFY:PROFL
Output Message(s):

VFY:PCGRP
VFY:PROFL

Input Appendix(es):

APP:COMMAND-GRP

Other Manual(s):
235-105-210  Routine Operations and Maintenance
DEL:TAUTH

**Software Release:** 5E14 and later  
**Command Group:** AUTH  
**Application:** 5,3B  
**Type:** Input

1. PURPOSE

Deletes a terminal identity (TERM) from the terminal authority (TAUTH) database.

This input message is used in administering security of the maintenance interface. Refer to the Routine Operations and Maintenance manual for authority administration information.

2. FORMAT

DEL:TAUTH:TERM=a;

3. EXPLANATION OF MESSAGE

a = Terminal identity in four characters, starting with "tty".

4. SYSTEM RESPONSE

NG = No good. May also include:
- INVALID TERMINAL IDENTITY = The given terminal identity is either not four characters in length or does not start with "tty".
- NON-EXISTENT TERMINAL IDENTITY = The given terminal identity does not exist in the terminal authority database.
- UNABLE TO ACCESS AUTHORITY ADMINISTRATION = The terminal authority database is inaccessible.

OK = Good. The terminal identity is deleted from the terminal authority database.

RL = Retry later. May also include:
- AUTHORITY ADMINISTRATION UNDER UPDATE = The terminal authority database is currently being updated.

5. REFERENCES

Input Message(s):

ADD:TAUTH  
VFY:TAUTH

Output Message(s):

VFY:TAUTH

Other Manual(s):
235-105-210    Routine Operations and Maintenance
DEL:TCGRP

Software Release: 5E14 and later
Command Group: AUTH
Application: 5,3B
Type: Input

1. PURPOSE

This command deletes a command group of profile from the terminal-command group (TCGRP) relation for a given terminal (TERM) identity.

Format 1 disassociates a command group (COMGR) from a TERM, preventing the user from accessing this group of commands from that terminal. Format 2 disassociates a command profile (PROFL) from a TERM, preventing the user from accessing this command profile from that terminal. This input message is used in administering security of the maintenance interface. Refer to the Routine Operations and Maintenance manual for authority administration information.

2. FORMAT

[1] DEL:TCGRP:TERM=a,COMGR=b;

3. EXPLANATION OF MESSAGE

a = Terminal identity in four characters, starting with “tty”.

b = Command group. Valid value(s):

ADMIN = System administrator only activities.
ALARM = Alarm manipulation.
AM = Administrative module maintenance.
AMA = Automatic Message Accounting.
AUDIT = Audits.
AUTH = Command and authority administration.
CCS = Common channel signaling.
CM = Communications module maintenance.
FHADM = File handling and administration.
MAINT = Routine maintenance activities.
MEAS = Measurements.
NMOC = Network management and overload control.
ODD = Office Dependent Data activities.
PASS = Personal password modification.
RCV = Recent Change and Verify activities.
SM = Switching module maintenance.
SPECRCV = Special RCV commands.
SFTMGIT = Software management (update, software release retrofit).
SFTUTIL = Software utilities.
SUPERUSR = Super user authority (bypass terminal authority).
SYSRCVY = System recovery activities.
TRACE = Call trace.
TRKLN = Trunk and line maintenance.
Refer to the APP:COMMAND-GRP appendix in the Appendixes section of the Input Messages manual for more details.

4. SYSTEM RESPONSE

NG = No good. May also include:
- COMMAND GROUP NOT ASSIGNED TO THIS TERMINAL = The given command group was never assigned to this terminal identity.
- INVALID TERMINAL IDENTITY = The given terminal identity is either not four characters in length or does not start with tty.
- TERMINAL IDENTITY DOES NOT EXIST = The given terminal identity does not exist in the terminal authority administration.
- PROFILE NOT ASSIGNED = The given command profile was never assigned to this terminal identity.
- UNABLE TO ACCESS AUTHORITY ADMINISTRATION = The terminal authority database is inaccessible.

OK = Good. The command group or profile is no longer associated with the terminal identity.

RL = Retry later. May also include:
- AUTHORITY ADMINISTRATION UNDER UPDATE = The terminal authority database is currently being updated.

5. REFERENCES

Input Message(s):

ADD:PROFL
ADD:TAUTH
ADD:TCGRP
CHG:PROFL
DEL:PROFL
DEL:TAUTH
DEL:TCGRP
VFY:PROFL
VFY:TAUTH
VFY:TCGRP

Output Message(s):

VFY:PROFL
VFY:TAUTH
VFY:TCGRP

Input Appendix(es):

APP:COMMAND-GRP

Other Manual(s):

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**DGN:AIUCOM**

**Software Release:** 5E14 and later  
**Command Group:** SM  
**Application:** 5  
**Type:** Input

1. **PURPOSE**

Requests that diagnostics be executed on an access interface unit common data and control controller (COMDAC).

2. **FORMAT**

```
DGN:AIUCOM=a-b-c[,PH=d[&e]][,RPT=[f]][,GROW][,RAW][,TLP][,UCL];
```

3. **EXPLANATION OF MESSAGE**

- **GROW** = Allows access to growth equipment.  
- **RAW** = Print data from raw data test failure.  
- **TLP** = Print the ordered pack list.  
- **UCL** = Execute and print all test failures unconditionally rather than stopping after the first test failure.

- **a** = Switching module (SM) number.  
- **b** = Access interface unit (AIU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.  
- **c** = COMDAC number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.  
- **d** = The number of the phase to be run, or the lower limit of a range of phases.  
- **e** = The upper limit of a range of phases to be run.  
- **f** = The number of times the exercise is to be repeated (1-32676). If 'f' is not specified, the test will be repeated 32,767 times.

4. **SYSTEM RESPONSE**

- **NG** = No good. The message form is valid, but the request conflicts with the current status.  
- **PF** = Printout follows. Followed by the DGN:AIUCOM output message.  
- **RL** = Retry later. The request cannot be executed now due to unavailable system resources.

5. **REFERENCES**

Input Message(s):

```
OP : DMQ–CM–SM
```
Output Message(s):

DGN: AIUCOM

Input Appendix(es):

APP: RANGES

MCC Display Page(s):

1320,y,x (AIU SUMMARY)
DGN:AIULC

Software Release: 5E14 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE
Requests that diagnostics be executed on an access interface unit (AIU) line circuit (LC).

2. FORMAT
DGN:AIULC=a-b-c-d[,PH=e[&f]][,RPT=[g]][,GROW][,RAW][,TLP][,UCL];

3. EXPLANATION OF MESSAGE

GROW = Allows access to growth equipment.
RAW = Print data from raw data test failure.
TLP = Print the ordered pack list.
UCL = Execute and print all test failures unconditionally rather than stopping after the first test failure.

a = Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
b = AIU number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
c = LP number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
d = LC number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
e = The number of the phase to be run, or the lower limit of a range of phases.
f = The upper limit of a range of phases to be run.
g = The number of times the exercise is to be repeated (1-32676). If 'ε' is not specified, the test will be repeated 32,767 times.

4. SYSTEM RESPONSE
NG = No good. The message form is valid, but the request conflicts with the current status.
PF = Printout follows. Followed by the DGN:AIULC output message.
RL = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES
Input Message(s):
  OP : DMQ–CM–SM

Output Message(s):
  DGN : AIULC

Input Appendix(es):
  APP : RANGES

MCC Display Page(s):
  1323.y,z,x (AIU AP STATUS)
DGN:AIULP

Software Release: 5E14 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Requests that diagnostics be executed on an access interface unit (AIU) line pack (LP).

2. FORMAT

DGN:AIULP=a-b-c[,PH=d[&e]][,RPT=[f]][,GROW][,RAW][,TLP][,UCL];

3. EXPLANATION OF MESSAGE

GROW = Allows access to growth equipment.
RAW = Print data from raw data test failure.
TLP = Print the ordered pack list.
UCL = Execute and print all test failures unconditionally rather than stopping after the first test failure.
a = Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
b = AIU number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
c = LP number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
d = The number of the phase to be run, or the lower limit of a range of phases.
e = The upper limit of a range of phases to be run.
f = The number of times the exercise is to be repeated (1-32676). If ‘f’ is not specified, the test will be repeated 32,767 times.

4. SYSTEM RESPONSE

NG = No good. The message form is valid, but the request conflicts with the current status.
PF = Printout follows. Followed by the DGN:AIULP output message.
RL = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

Input Message(s):

OP:DMQ-CM-SM
Output Message(s):

DGN: AIULP

Input Appendix(es):

APP : RANGES

MCC Display Page(s):

1320.y,x (AIU SUMMARY)
1323,y.z,x (AIU AP STATUS)
DGN:AIURG

Software Release: 5E14 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Requests that diagnostics be executed on an access interface unit (AIU) ring generator (RG).

2. FORMAT

DGN:AIURG=a-b-c[,PH=d[&e]][,RPT[=f]][,GROW][,RAW][,TLP][,UCL];

3. EXPLANATION OF MESSAGE

GROW = Allows access to growth equipment.
RAW = Print data from raw data test failure.
TLP = Print the ordered pack list.
UCL = Execute and print all test failures unconditionally rather than stopping after the first test failure.
 a = Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
b = Access interface unit (AIU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
c = RG number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
d = The number of the phase to be run, or the lower limit of a range of phases.
e = The upper limit of a range of phases to be run.
f = The number of times the exercise is to be repeated (1-32676). If ‘f’ is not specified, the test will be repeated 32,767 times.

4. SYSTEM RESPONSE

NG = No good. The message form is valid, but the request conflicts with the current status.
PF = Printout follows. Followed by the DGN:AIURG output message.
RL = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

Input Message(s):

OP: DMQ-CM-SM
Output Message(s):

DGN: AIURG

Input Appendix(es):

APP: RANGES

MCC Display Page(s):

1320.y,x (AIU SUMMARY)
1322.y,x (AIU RG STATUS)
DGN:AIUTSGRP
Software Release: 5E14 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE
Requests that diagnostics be executed on an access interface unit (AIU) timeslot group (TSGRP).

2. FORMAT
DGN:AIUTSGRP=a-b-c-d[,PH=e[&f]][,RPT=g][,GROW][,RAW][,TLP][,UCL];

3. EXPLANATION OF MESSAGE
GROW = Allows access to growth equipment.
RAW = Print data from raw data test failure.
TLP = Print the ordered pack list.
UCL = Execute and print all test failures unconditionally rather than stopping after the first test failure.
a = Switching module (SM) number.
b = AIU number. Refer to the APP:RANGES appendix in the Appendices section of the Input Messages manual.
c = Common data and control circuit (COMDAC) number. Refer to the APP:RANGES appendix in the Appendices section of the Input Messages manual.
d = Peripheral interface data bus (PIDB) number. Refer to the APP:RANGES appendix in the Appendices section of the Input Messages manual.
e = The number of the phase to be run, or the lower limit of a range of phases.
f = The upper limit of a range of phases to be run.
g = The number of times the exercise is to be repeated (1-32676). If 'f' is not specified, the test will be repeated 32,767 times.

4. SYSTEM RESPONSE
NG = No good. The message form is valid, but the request conflicts with the current status.
PF = Printout follows. Followed by the DGN:AIUTSGRP output message.
RL = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES
Input Message(s):
OP: DMQ-CM-SM

Output Message(s):

DGN: AIUTSGRP

Input Appendix(es):

APP: RANGES

MCC Display Page(s):

1321,y,x (AIU PIDB SUMMARY)
DGN:ALIT

Software Release: 5E14 and later  
Command Group: SM  
Application: 5  
Type: Input

1. PURPOSE

Requests that an automatic line insulation test (ALIT) be diagnosed to determine whether it is in satisfactory working order.

2. FORMAT

DGN:ALIT=a-b-c-d[,RAW][,UCL][,GROW][,RPT=[e]][,PH=f[&g]][,TLP];

3. EXPLANATION OF MESSAGE

GROW = Allow access to growth equipment.

RAW = Print raw test failure data.

TLP = Print the ordered pack list.

UCL = Unconditionally execute and print all test failures.

a = Switching module number.

b = Metallic service unit (MSU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

c = Service group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

d = Metallic service unit board number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

e = The number of times the test is to be repeated. If ‘e’ is not specified, the test will be repeated 32,767 times.

f = Diagnostic phase(s) to be performed, or the lower limit of a range of phases.

g = Upper limit of a range of diagnostic phases to be performed.

4. SYSTEM RESPONSE

NG = No good. The request has been denied. The message form is valid, but the request conflicts with current status.

PF = Printout follows. The request was accepted. Followed by the DGN:ALIT output message.

5. REFERENCES

Output Message(s):
**DGN:ASC**

**Software Release:** 5E14 and later  
**Command Group:** SM  
**Application:** 5  
**Type:** Input

1. PURPOSE

Requests that a multimodule remote switching module (RSM), optical remote switching module (ORM), or two-mile remote switching module (TRM) alarm and status circuit (ASC) be diagnosed to determine if it is in working order.

2. FORMAT

DGN:ASC=a[,RAW][,UCL][,RPT[b]][,GROW][,PH=c[&d]][,TLP];

3. EXPLANATION OF MESSAGE

- **GROW** = Allow access to growth equipment.
- **RAW** = Print raw data from test failure.
- **TLP** = Print the ordered pack list if diagnostic fails.
- **UCL** = Execute the diagnostic(s) unconditionally.
  - **a** = Switching module (SM) number.
  - **b** = Number of times the test will be repeated. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual. Default=32,767.
  - **c** = Diagnostic phase(s) to be performed, or the lower limit of a range of diagnostic phases.
  - **d** = Upper limit of a range of diagnostic phases.

4. SYSTEM RESPONSE

- **NG** = No good. Request denied because of a conflict with current status.
- **PF** = Printout follows. Followed by the ABT:ASC output message.

**Note:** Observe the following at the remote site:

<table>
<thead>
<tr>
<th>AUDIBLE</th>
<th>VISUAL</th>
<th>TIME</th>
</tr>
</thead>
<tbody>
<tr>
<td>CRITICAL</td>
<td>CRITICAL + TIP</td>
<td>5 sec</td>
</tr>
<tr>
<td>CRITICAL</td>
<td>STAND-ALONE + TIP</td>
<td>5 sec</td>
</tr>
<tr>
<td>MAJOR</td>
<td>MAJOR + TIP</td>
<td>5 sec</td>
</tr>
<tr>
<td>MINOR</td>
<td>MINOR + TIP</td>
<td>5 sec</td>
</tr>
</tbody>
</table>

**TIP = test in progress.**

5. REFERENCES

Output Message(s):

- **ABT:HDFI**
- **DGN:ASC**
Input Appendix(es):

APP : RANGES

Other Manual(s):
235-105-110  System Maintenance Requirements and Tools
DGN:BTSR

Software Release: 5E14 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Requests that the bootstrapper board (BTSR) be diagnosed to determine whether it is in satisfactory working order.

2. FORMAT

DGN:BTSR=a[,RAW][,UCL][,RPT[=b]][,GROW][,PH=c[&d]][,TLP];

3. EXPLANATION OF MESSAGE

 RAW = Print data from raw data test failure.
 TLP = Print the ordered pack list.
 UCL = Unconditionally execute the removal.
 a = Switching module number.
 b = The number of times that the test is to be repeated. If 'b' is not specified, the test will be repeated 32,767 times.
 c = If specified as a single argument, the diagnostic phase to be performed. If specified as a range, the first diagnostic phase of the range of phases to be performed.
 d = The last diagnostic phase of the range of phases starting with 'e' to be performed.

4. SYSTEM RESPONSE

NG = No good. The request has been denied. The message form is valid, but the request conflicts with current status.
PF = Printout follows. The request was accepted. Followed by the DGN:BTSR output message.

5. REFERENCES

Output Message(s):

DGN:BTSR
DGN:CDFI

Software Release: 5E14 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Diagnoses an inter-remote switching module (RSM) communication link digital facilities interface (CDFI) circuit to determine if it is in working order. If the circuit is in service, it is removed from service and diagnosed. The circuit is left out of service at the end of the diagnostic regardless of the result.

2. FORMAT

DGN:CDFI=a-b-c[,RAW][,UCL][,RPT [=d]][,GROW][,PH=e[&f]][,TPL];

3. EXPLANATION OF MESSAGE

GROW = Allow access to growth equipment.

RAW = Print raw data from test failure.

TLP = Print the ordered pack list if a diagnostic fails.

UCL = Unconditionally execute and print all test failures. Diagnostic will continue past all non-fatal errors.

a = Switching module (SM) number.

b = Digital line and trunk unit (DLTU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

c = CDFI number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

d = Repeat (RPT) the test 'd' times. If 'd' is not specified, the test will be repeated 32,767 times.

e = Run phase 'e'.

f = Run phases 'e' through 'f'.

4. SYSTEM RESPONSE

NG = No good. The message syntax is valid, but the request conflicts with current system or equipment status. May also include:
- NOT STARTED UNIT IN GROWTH STATE
- SM DOES NOT EXIST
- SM UNEQUIPPED
- UNIT DOES NOT EXIST

PF = Printout follows. The DGN:CDFI output message follows.

RL = Retry later. The request cannot be executed now due to unavailable system resources.
5. REFERENCES

Input Message(s):
   RST: CDFI

Output Message(s):
   DGN: CDFI

Input Appendix(es):
   APP: RANGES
DGN:CDI

Software Release: 5E14 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE
Requests that a control data interface (CDI) be diagnosed to determine whether it is in satisfactory working order.

2. FORMAT
DGN:CDI=a-b-c[,RAW][,UCL][,SVG][,RPT[=d]][,GROW][,PH=e[&f]][,TLP];

3. EXPLANATION OF MESSAGE

GROW = Allow access to growth equipment.
RAW = Print raw test failure data.
SVG = Run diagnostics on the entire service group, including the demand phases.
TLP = Print the ordered pack list.
UCL = Unconditionally execute and print all test failures.
a = Switching module number.
b = Trunk unit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
c = Service group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
d = The number of times the test is to be repeated. If ‘d’ is not specified, the test will be repeated 32,767 times.
e = Diagnostic phase(s) to be performed. If ‘e’ is specified as a single phase, only that phase will be performed. If ‘e’ is specified in a range, ‘e’ will be the first phase in that range to be performed.
f = The last diagnostic phase in the range between and including ‘e’ and ‘f’ to be performed.

4. SYSTEM RESPONSE
NG = No good. The request has been denied. The message form is valid, but the request conflicts with current status.
PF = Printout follows. The request was accepted. Followed by the DGN:CDI output message.

5. REFERENCES
Output Message(s):
DGN:CMP

Software Release: 5E14 and later
Command Group: CM
Application: 5
Type: Input

1. PURPOSE

Requests diagnosis of a communication module processor (CMP) to determine whether it is in satisfactory working order. Completion of this input message leaves the unit in the out-of-service (OOS) state.

Note 1: If the unit is not OOS, the system will first remove the unit conditionally.

Note 2: This command is not applicable to offices having CM3 vintage communications modules.

2. FORMAT

DGN:CMP=a-b[,,RAW][,GROW][,UCL][,RPT[=c]][,TLP][,PH=d[&e]];

3. EXPLANATION OF MESSAGE

GROW = Run diagnostics on a CMP in the GROW state. If the CMP is GROW, this option must be input to perform the diagnostic.

RAW = Print data from raw data test failure.

RPT = Repeat the diagnostic 'c' times.

TLP = Print the ordered pack list.

UCL = Execute tests unconditionally and print test failures rather than stopping after the first test failure.

a = Message switch side number.

b = CMP number.

c = Number of times the diagnostic is to be repeated (default 32,767). Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

d = Phase (PH) number or lower limit of a range of phase numbers.

e = Upper limit of a range of phase numbers.

4. SYSTEM RESPONSE

NG = No good. The request has been denied. The message syntax is valid, but the request could not be processed. Refer to the APP:CM-IM-REASON appendix in the Appendixes section of the Input Messages manual for a list of possible reasons for denying the request.

PF = Printout follows. The DGN:CMP output message follows.
RL  = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

Input Message(s):

ABT : CMP
OP : DMQ-CM-SM
STP : CMP

Output Message(s):

DGN : CMP

Input Appendix(es):

APP : CM-IM-REASON
APP : RANGES

Other Manual(s):
235-105-110  System Maintenance Requirements and Tools
235-105-220  Corrective Maintenance
235-105-250  System Recovery Procedures
235-700-300  Peripheral Diagnostic Language Reference

MCC Display Page(s):

1241/51 (MSGS COMMUNITIES 0-1, 8-9)
**DGN:CU**

**Software Release:** 5E14 and later  
**Command Group:** AM, CCS  
**Application:** 3B, CNI  
**Type:** Input

1. **PURPOSE**

Diagnoses the specified administrative module (AM) control unit (CU) complex or a specified unit within the CU complex.

Format 1 diagnoses the specified CU complex. Format 2 diagnoses the central control (CC) unit. Format 3 diagnoses the specified channel (CH). Format 4 diagnoses the cache store unit (CSU). Format 5 diagnoses the specified direct memory access (DMA) unit. Format 6 diagnoses the specified main store controller unit (MASC). Format 7 diagnoses the store address translator (SAT) circuit pack. Format 8 diagnoses the utility circuit (UC) circuit pack.

2. **FORMAT**

```plaintext
[1] DGN:CU=a [: [ , RAW] [ , UCL] [ , REX] [ , DEX] ] [ , TLP] ;

[2] DGN:CU=a , CC=0 [: [ , RPT=c] [ , RAW] [ , UCL] [ , REX] [ , DEX] ] [ , PH=d[&&e] ] [ , TLP] ;

[3] DGN:CU=a , CH=b [: [ , RPT=c] [ , RAW] [ , UCL] [ , REX] [ , DEX] ] [ , PH=d[&&e] ] [ , TLP] [ , {DFC=f | IOP=f | RPCN32=g | RPCN00=g | LN32=g | LN00=g} ];

[4] DGN:CU=a , CSU=0 [: [ , RPT=c] [ , RAW] [ , UCL] [ , REX] [ , DEX] ] [ , PH=d[&&e] ] [ , TLP] ;

[5] DGN:CU=a , DMA=b [: [ , RPT=c] [ , RAW] [ , UCL] [ , REX] [ , DEX] ] [ , PH=d[&&e] ] [ , CONT] [ , TLP] ;

[6] DGN:CU=a , MASC=b [: [ , RPT=c] [ , RAW] [ , UCL] [ , REX] [ , DEX] ] [ , PH=d[&&e] ] [ , TLP] ;

[7] DGN:CU=a , SAT=0 [: [ , RPT=c] [ , RAW] [ , UCL] [ , REX] [ , DEX] ] [ , PH=d[&&e] ] [ , TLP] ;

[8] DGN:CU=a , UC=0 [: [ , RPT=c] [ , RAW] [ , UCL] [ , REX] [ , DEX] ] [ , PH=d[&&e] ] [ , TLP] ;
```

3. **EXPLANATION OF MESSAGE**

**CONT**

= Include only the specified unit (controller). Units attached to the specified unit will not be included. If the specified unit has no attached units, CONT is ignored. Format 5 is currently used by the DMA. If this parameter is not specified, the DMA controller and all channels connected to it are diagnosed.

**DEX**

= Run demand exercise phases in addition to routine exercise and normal (automatic) phases. This option will not allow special demand exercise phases which require user interaction to be run even if the range of phases specified includes such a phase.

**RAW**

= Print the diagnostic results of every phase. Default equals the first five failures of each failing phase.
REX = Run routine exercise phases in addition to the normal (automatic) phases. This option will not allow demand exercise phases to be run even if the range of phases specified includes such a phase.

TLP = Executes the trouble locating procedure (TLP) at the conclusion of the diagnostic. This process generates a list of suspected faulty equipment.

**NOTE:** It is recommended that the TLP and UCL parameters not be specified together, as it may produce an improper TLP listing.

UCL = Unconditional execution.

**NOTE:** This option does not override forced early terminations.

- **a** = Member number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
- **b** = Subunit number. Refer to the APP:MEM-NUM-CU appendix in the Appendixes section of the Input Messages manual.
- **c** = Number of times diagnostic is repeated (maximum is 256) (default is 1).

**NOTE:** This option does not override early terminations. UCL should also be specified if the diagnostic terminates.

- **d** = The number of the first phase to be executed.
- **e** = The number of the last phase to be executed.
- **f** = Member number of the DFC or IOP that is to be used as a helper unit. When a helper unit is required but the specified helper unit is inappropriate or unavailable, the helper unit dependent tests are skipped.
- **g** = Member number of the link node (LN) or ring peripheral control node (RPCN) to be used as a helper unit. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual. 0 is used for the RPCN.

### 4. SYSTEM RESPONSE

**?D** = General syntax error in the data field, followed by the parameter position. Valid value(s):
- EXTRA KEYWORD = Duplicate or extraneous keywords were input.
- INCONSISTENT KEYWORD = The combination of keywords is not a valid combination.
- INVALID DATA = Not a valid value for the phase option.
- INVALID KEYWORD = The keyword in the stated parameter position is not a valid keyword.

**?E** = Input error of undetermined type.

**?I** = General syntax error, followed by the parameter position. May also include:
- EXTRA KEYWORD = Duplicate or extraneous keywords were input.
- INVALID KEYWORD = The keyword in the stated parameter position is not a valid keyword.
- MISSING DATA = Data required for a keyword in the stated parameter block was not found.
- MISSING KEYWORD = A required keyword is missing from the input. Unit to diagnose must be specified.
- **RANGE ERROR** = Input is out of the valid range.

**PF** = Printout follows. Followed by the DGN:CU output message.

**RL** = Retry later. The system is in an overload condition.

### 5. REFERENCES

**Input Message(s):**

- OP:DMQ
- RMV:CU
- RST:CU
- STOP:DMQ
- STP:DMQ

**Output Message(s):**

- ANALY:TLPPFILE
- DGN:CU
- OP:DMQ–CM
- OP:DMQ–SM

**Input Appendix(es):**

- APP:MEM–NUM–CU
- APP:RANGES

**Other Manual(s):**

235-105-220  *Corrective Maintenance*

**MCC Display Page(s):**

(COMMON PROCESSOR DISPLAY)
**DGN:DCI**

**Software Release:** 5E14 and later  
**Command Group:** N/A  
**Application:** 5,3B  
**Type:** Input

1. **PURPOSE**

Diagnoses the specified dual serial channel/computer interconnect (DCI).

2. **FORMAT**

\[
\text{DGN:DCI}=a\[:\[,\text{RPT}=b\]\[,\text{RAW}\]\[,\text{UCL}\]\[,\text{REX}\]|,\text{DEX}\]\][:\text{DATA}\[,\text{PH}=c[\&\&d]\]\[,\text{TLP}\]]; 
\]

3. **EXPLANATION OF MESSAGE**

- **DEX**
  - Runs demand exercise phases in addition to routine exercise and normal (automatic) phases. This option will not allow special demand exercise phases that require user interaction to be run even if the range of phases specified includes such a phase.

- **RAW**
  - Prints the diagnostic results of every phase. The default is the first five failures of each failing phase.

- **REX**
  - Runs routine exercise phases in addition to the normal (automatic) phases. This option will not allow demand exercise phases to be run even if the range of phases specified includes such a phase.

- **TLP**
  - Executes the trouble locating procedure (TLP) at the conclusion of the diagnostic. This process generates a list of suspected faulty equipment.

*NOTE:* The **TLP** and **UCL** parameters should not be used together, as additional test results may adversely affect the **TLP** listing.

- **UCL**
  - Unconditional execution.

*NOTE:* This option does not override forced early terminations.

- **a**
  - Member number. Refer to the **APP:RANGES** appendix in the Appendixes section of the Input Messages manual.

- **b**
  - Number of times diagnostic is repeated. The maximum is 256. The default is one.

*NOTE:* This option does not override early terminations. **UCL** should also be specified if the diagnostic terminates.

- **c**
  - The number of the first phase to be executed.

- **d**
  - The number of the last phase to be executed.

4. **SYSTEM RESPONSE**

- **PF**
  - Printout follows. Followed by the DGN:DCI output message.

- **RL**
  - Retry later. The system is in an overload condition.
= General syntax error, followed by the parameter position and one of the following reasons: 
EXTRA KEYWORD = Duplicate or extraneous keywords were input. 
INVALID KEYWORD = The keyword in the stated parameter position is not a valid keyword. 
MISSING DATA = Data required for a keyword in the stated parameter block was not found. 
MISSING KEYWORD = A required keyword is missing from the input. Unit to diagnose must be specified. 
RANGE ERROR = Input is out of the valid range.

= General syntax error in the data field, followed by the parameter position and one of the following reasons: 
EXTRA KEYWORD = Duplicate or extraneous keywords were input. 
INCONSISTENT KEYWORD = The combination of keywords is not a valid combination. 
INVALID DATA = Not a valid value for the phase option. 
INVALID KEYWORD = The keyword in the stated parameter position is not a valid keyword.

= Input error of undetermined type.

5. REFERENCES

Input Message(s):

OP:DMQ
RMV:DCI
RST:DCI
STP:DMQ

Output Message(s):

ANALY:TLPFILE
DGN:DCI
OP:DMQ

Input Appendix(es):

APP:RANGES

Other Manual(s):
235-105-220 Corrective Maintenance

MCC Display Page(s):

(COMMON PROCESSOR DISPLAY)
DGN:DCLU

Software Release: 5E14 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Requests that a $SLC^\circlearrowright$ 96 digital carrier line unit (DCLU) be removed and diagnosed. The circuit will remain out of service (regardless of the diagnostic's result) until a restore (RST) is requested.

The DCLU service groups interface with $SLC^\circlearrowright$ 96 digital facility interface (SDFI) circuits. There are 4 classes of faults associated with DCLU and SDFI circuits and they are written in the order in which they are most likely to occur:

A DCLU faults that are detected with DCLU diagnosis.
B DCLU faults that are only detected by diagnosing an SDFI circuit (any SDFI).
C SDFI faults that are only detected by diagnosis of the DCLU.
D DCLU faults that are only detected by diagnosing a particular SDFI.

In addition, fault recovery is unable to determine if detected problems are associated with bad DCLU or SDFI circuits. Therefore, fault recovery uses an algorithm in determining which circuits (DCLU or SDFI) to diagnose.

2. FORMAT

DGN:DCLU=a-b-c[,RAW][,UCL][,RPT=[=d]][,GROW][,PH=e[&f]][,TLP];

3. EXPLANATION OF MESSAGE

GROW = Allow access to growth equipment.
RAW = Prints raw test results [all tests passed (ATP)/some tests failed (STF)] for each phase executed.
TLP = Print the ordered suspect pack if a test fails.
UCL = Unconditionally execute and print all test results requested rather than stopping on first failing phase.
a = Switching module (SM) number.
b = DCLU number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
c = Service group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
d = The number of times the test is to be repeated. If ‘d’ is not specified, the test will be repeated 32,767 times.
e = Diagnostic phase to be performed. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual. If ‘e’ is specified as a single phase, only that phase will be
performed. If 'e' is specified in a range, 'e' will be the first phase in that range to be performed.

\( e \) = The last diagnostic phase in the range between and including 'e' and 'f' to be performed.

4. SYSTEM RESPONSE

NG = No good. The request has been denied. The message form is valid, but the request conflicts with current status.

PF = Printout follows. The request was accepted. The DGN:DCLU output message follows when the diagnostic is executed.

RL = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

Input Message(s):

EX:DCLU
RMV:DCLU
RST:DCLU
STP:DCLU

Output Message(s):

DGN:DCLU

Input Appendix(es):

APP: RANGES
DGN:DCTUCOM

Software Release: 5E14 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Requests that a directly connected unit common board (DCTUCOM) be diagnosed to determine whether it is in satisfactory working order.

2. FORMAT

DGN:DCTUCOM=a-b[,RAW][,UCL][,SVG][,RPT[=c]][,GROW][,PH=d[&e]][,TLP];

3. EXPLANATION OF MESSAGE

GROW = Allow access to growth equipment.
RAW = Print raw test failure data.
SVG = Run diagnostics on the entire service group, including the demand plases.
TLP = Print the ordered pack list.
UCL = Unconditionally execute and print all test failures.

a = Switching module number.
b = Directly connected test unit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
c = The number of times the test is to be repeated. If ‘c’ is not specified, the test will be repeated 32,767 times.
d = Diagnostic phase(s) to be performed. If ‘d’ is specified as a single phase, only that phase will be performed. If ‘d’ is specified as a range, ‘d’ will be the first phase in that range to be performed.
e = The last diagnostic phase in the range between and including ‘d’ and ‘e’ to be performed.

4. SYSTEM RESPONSE

NG = No good. The request has been denied. The message form is valid, but the request conflicts with current status.
PF = Printout follows. The request was accepted. Followed by the DGN:DCTUCOM output message.

5. REFERENCES

Output Message(s):

DGN:DCTUCOM
Input Appendix(es):

APP : RANGES
DGN:DCTUPORT

**Software Release:** 5E14 and later  
**Command Group:** SM  
**Application:** 5  
**Type:** Input

1. **PURPOSE**

Requests that a directly connected test unit port circuit (DCTUPORT) be diagnosed to determine whether it is in satisfactory working order.

2. **FORMAT**

\[ \text{DGN:DCTUPORT=a-b-c[,RAW][,UCL][,RPT=[d]][,GROW][,PH=e&&f][,TLP];} \]

3. **EXPLANATION OF MESSAGE**

   - **GROW** = Allow access to growth equipment.
   - **RAW** = Print raw test failure data.
   - **TLP** = Print the ordered pack list.
   - **UCL** = Unconditionally execute and print all test failures.
   - **a** = Switching module number.
   - **b** = Directly connected test unit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
   - **c** = Circuit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
   - **d** = The number of times the test is to be repeated. If ‘d’ is not specified, the test will be repeated 32,767 times.
   - **e** = Diagnostic phase(s) to be performed, or the lower limit of a range of phases.
   - **f** = The upper limit of a range of diagnostic phases.

4. **SYSTEM RESPONSE**

   - **NG** = No good. The request has been denied. The message form is valid, but the request conflicts with current status.
   - **PF** = Printout follows. Followed by the DGN:DCTUPORT output message.

5. **REFERENCES**

Output Message(s):

DGN:DCTUPORT
Input Appendix(es):

APP : RANGES

Other Manual(s):
235-105-220 Corrective Maintenance
DGN:DFC

Software Release: 5E14 and later
Command Group: AM
Application: 5,3B
Type: Input

1. PURPOSE

Requests that the specified disk file controller (DFC) be diagnosed.

NOTE: The moving head disk (MHD) cannot be diagnosed if the disk file controller (DFC) is not in service. Therefore, a controller and its associated disk units cannot be diagnosed with one input message.

2. FORMAT

DGN:DFC=a[:[RPT=b][,RAW][,UCL][,REX|,DEX]][[,PH=c[&d]][,CONT][,TLP][,CU=e]];

3. EXPLANATION OF MESSAGE

CONT = Includes only the specified unit (controller). Units attached to the specified unit will not be included. Default is diagnose DFC variable 'a' only.

DEX = Runs demand exercise phases in addition to routine exercise and normal (automatic) phases. This option will not allow special demand exercise phases that require user interaction to be run even if the range of phases specified includes such a phase.

RAW = Prints the diagnostic results of every phase. The default is the first five failures of each failing phase.

REX = Runs routine exercise phases in addition to the normal (automatic) phases. This option will not allow demand exercise phases to be run even if the range of phases specified includes such a phase.

TLP = Executes the trouble locating procedure (TLP) at the conclusion of the diagnostic. This process generates a list of suspected faulty equipment.

NOTE: The TLP and UCL parameters should not be used together, as additional test results may adversely affect the TLP listing.

UCL = Unconditional execution.

NOTE: This option does not override forced early terminations.

a = Member number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

b = Number of times diagnostic is repeated. The maximum is 256. The default is one.

NOTE: This option does not override early terminations. UCL should also be specified if the diagnostic terminates.

c = The number of the first phase to be executed.

d = The number of the last phase to be executed.
Member number of the CU helper unit. Refer to the APP:RANGES appendix in the Appendix section of the Input Messages manual. When a helper unit is not required, the specified helper unit is not used. When a helper unit is required but the specified helper unit is inappropriate or unavailable, the helper unit dependent tests are skipped. The off-line CU is required as a helper unit when demand phase 15 is executed.

**NOTE:** The helper CU must be out-of-service (OOS) and must be diagnosed as all tests pass (ATP) before it is used as a helper unit.

### 4. SYSTEM RESPONSE

?D = General syntax error in the data field, followed by the parameter position. Valid value(s):
- INVALID KEYWORD = The keyword in the stated parameter position is not a valid keyword.
- EXTRA KEYWORD = Duplicate or extraneous keywords were input.
- INVALID DATA = Not a valid value for the phase option.
- INCONSISTENT KEYWORD = The combination of keywords is not a valid combination.

?E = Input error of undetermined type.

?I = General syntax error, followed by the parameter position. May also include:
- INVALID KEYWORD = The keyword in the stated parameter position is not a valid keyword.
- EXTRA KEYWORD = Duplicate or extraneous keywords were input.
- MISSING DATA = Data required for a keyword in the stated parameter block was not found.
- RANGE ERROR = Input is out of the valid range.
- MISSING KEYWORD = A required keyword is missing from the input. Unit to diagnose must be specified.

PF = Printout follows. Followed by the DGN:DFC output message.

RL = Retry later. The system is in an overload condition.

### 5. REFERENCES

**Input Message(s):**

OP:DMQ
RMV:DFC
RST:DFC
STOP:DMQ
STP:DMQ

**Output Message(s):**

ANALY:TLPFILE
DGN:DFC

**Input Appendix(es):**

APP:RANGES
Other Manual(s):
235-105-220  Corrective Maintenance

MCC Display Page(s):

(COMMON PROCESSOR DISPLAY)
DGN:DFI

Software Release: 5E14 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Requests that a digital facility interface (DFI) circuit be removed and diagnosed. This circuit will remain out-of-service (OOS) and the ports will be denied service (regardless of the diagnostic's result), until a restore (RST) is requested.

2. FORMAT

DGN:DFI=a-b-c [,RAW] [,UCL] [,RPT[=d]] [,GROW] [,PH=e[&f]] [,TLP];

3. EXPLANATION OF MESSAGE

GROW = Allow access to growth equipment.

RAW = Prints raw test results (all tests pass (ATP)/some tests failed (STF)) for each phase executed.

TLP = Print the ordered suspect pack list if a test fails.

UCL = Unconditionally execute and print all test results requested rather than stopping on first failing phase.

a = Switching module (SM) number.

b = Digital line and trunk unit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

c = DFI number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

d = The number of times the test is to be repeated. If ‘d’ is not specified, the test will be repeated 32,767 times.

e = Diagnostic phase to be performed. If ‘e’ is specified as a single phase, only that phase will be performed. If ‘e’ is specified in a range, ‘e’ will be the first phase in that range to be performed. The DFI diagnostic has 10 phases associated with the ANN1 type circuit and 9 phases associated with the ANN3 type circuit. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

f = The last diagnostic phase in the range between and including ‘e’ and ‘f’ to be performed.

4. SYSTEM RESPONSE

NG = No good. The request has been denied. The message form is valid, but the request conflicts with current status.

PF = Printout follows. The request was accepted. The DGN:DFI output message follows when the diagnostic is executed.
5. REFERENCES

Input Message(s):

EX:DFI
RST:DFI
STP:DFI

Output Message(s):

DGN:DFI

Input Appendix(es):

APP: RANGES
DGN:DFIH

Software Release: 5E14 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Diagnoses a remote integrated services line unit (RISLU) host/remote digital facility interface circuit pair (DFIH) to determine whether it is in satisfactory working order. If the circuit is in service, it is conditionally removed from service and diagnosed. The circuit is left out of service at the end of the diagnostic regardless of the result.

2. FORMAT

DGN:DFIH=a-b-c[,CAMP=d][,PH=e[&f]][,RPT=g][,GROW][,RAW][,TLP][,UCL];

3. EXPLANATION OF MESSAGE

GROW  = Allows access to growth equipment.
RAW   = Print data from raw data test failure.
TLP   = Print the ordered pack list.
UCL   = Unconditionally execute and print test failures rather than stopping after the first test failure.
a    = Switching module (SM) number.
b    = RISLU digital line and trunk unit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
c    = DFIH number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
d    = Allow a maximum of 'd' minutes for camp on (CAMP) time. If CAMP is not specified, camp on defaults to 3 minutes. Maximum time allowed is 20 minutes.
e    = Perform diagnostics phase (PH) 'e' only.
f    = Perform all diagnostics phases between and including 'e' and 'f'.
g    = Repeat the test (RPT) 'g' times. If 'g' is not specified, the test will be repeated 32,767 times.

4. SYSTEM RESPONSE

NG    = No good. May also include:
- CONFLICT WITH UNIT STATE
- SM DOES NOT EXIST
- SM UNEQUIPPED
- UNIT DOES NOT EXIST

PF    = Printout follows. The DGN:DFIH output message follows.
= Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

Input Message(s):

EX:DFIH

Output Message(s):

DGN:DFIH

Input Appendix(es):

APP:RANGES

MCC Display Page(s):

(RISLU DLTU)
DGN:DFTAC
Software Release: 5E14 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Requests that the distributing frame test access circuit (DFTAC) be diagnosed to determine whether it is in satisfactory working order. The circuit is left out of service when the testing is completed.

2. FORMAT

DGN:DFTAC=a-b-c-d[,RAW][,UCL][,GROW][,RPT=[e]][,PH=[f&g]][,TLP];

3. EXPLANATION OF MESSAGE

GROW = Allow access to growth equipment.
RAW = Print data from raw data test failure.
TLP = Print the trouble locating procedure ordered pack list.
UCL = Perform all phases in the specified or implied range and print all test failures.
a = Switching module number.
b = Metallic service unit (MSU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
c = Service group. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
d = Circuit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
e = Repeat the test 'e' times. If 'e' is not specified, the test will be repeated 32,767 times. If RPT is not specified, it runs once.
f = Perform diagnostic phase 'f' only.
f-g = Perform all existing diagnostic phases between and including 'f' and 'g'.

4. SYSTEM RESPONSE

NG = No good. Invalid SM number, MSU number, or service group number.
PF = Printout follows. The request was accepted. Followed by the DGN:DFTAC output message.
RL = Retry later. The request cannot be executed now due to unavailable system resources (that is, SM is not linked).

5. REFERENCES

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DGN:DIST

Software Release: 5E14 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE
Requests that a distribute point board (DIST) be diagnosed to determine whether it is in satisfactory working order.

2. FORMAT
DGN:DIST=a-b-c-d[,RAW][,UCL][,RPT[=e]][,GROW][,PH=[f&g]][,TLP];

3. EXPLANATION OF MESSAGE
GROW = Allow access to growth equipment.
RAW = Print raw test failure data.
TLP = Print the ordered pack list.
UCL = Unconditionally execute and print all test failures.
a = Switching module number.
b = Metallic service unit (MSU) number.
c = Service group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
d = Distribute point board number.
e = The number of times the test is to be repeated. If 'e' is not specified, the test will be repeated 32,767 times.
f = Diagnostic phase(s) to be performed. If 'f' is specified as a single phase, only that phase will be performed. If 'f' is specified in a range, 'f' will be the first phase in that range to be performed.
g = The last diagnostic phase in the range between and including 'f' and 'g' to be performed.

4. SYSTEM RESPONSE
NG = No good. The request has been denied. The message form is valid, but the request conflicts with current status.
PF = Printout follows. The request was accepted. Followed by the DGN:DIST output message.

5. REFERENCES
Output Message(s):
DGN:DIST
Input Appendix(es):

APP: RANGES
DGN:DLI

Software Release: 5E14 and later
Command Group: CM
Application: 5
Type: Input

1. PURPOSE

Diagnoses a specific dual link interface (DLI) or a range of DLIs in a switching module (SM) on a specified side of the office network and timing complex (ONTC), and determines if in satisfactory working order.

2. FORMAT

DGN:DLI={a|a&&b}-c[,RAW][,UCL][,RPT[=d]][,PH={e|e&&f}][,TLP][,GROW];

3. EXPLANATION OF MESSAGE

GROW = If an SM is in the GROW or special grow (SGROW) equipage state this option must be input for a diagnostic to execute on the DLI.

RAW = Print data from raw data test failure.

TLP = Executes the trouble location procedure at the conclusion of the diagnostic. This process generates a list of suspected faulty circuit packs.

UCL = Unconditionally execute and print all test results rather than stopping on the first failure.

a = Switching module (SM) number that the DLI to be diagnosed is in. This can also be the lower limit for a range of DLIs that are to be diagnosed. (The DLI number and the SM number are identical.)

b = Upper limit of a range of DLIs to be diagnosed. All DLIs in the range must be on the same side of the ONTC.

NOTE: Unequipped SMs will be 'ignored' on a manual request for a range of DLIs. SMs that are in a special grow state will only be included in a range if the GROW option is also used.

c = ONTC side that the DLI is on. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

d = The number of times the test is to be repeated. If 'd' is not specified, the test will be repeated 32,767 times.

e = Name of the diagnostic phase to be executed. If 'e' is specified as a single phase, only that phase will be executed. If 'f' is specified as a range it will be the first phase in that range to be executed.

f = The last phase of the diagnostic in the range between 'e' and including 'f' to be executed.

4. SYSTEM RESPONSE

NG = No good. The request has been denied. The message syntax is valid, but the request could not be processed. Refer to the APP:CM-IM-REASON appendix in the Appendixes section of the Input Messages manual for a list of reasons for denying the request.

PF = Printout follows.
RL = Retry later. The request cannot be executed now because the communication module (CM) deferred maintenance queue (DMQ) is full.

5. REFERENCES

Input Message(s):

- ABT: DLI
- OP: DMQ
- RMV: DLI
- RST: DLI
- STP: DLI

Output Message(s):

- DGN: DLI
- OP: DMQ-CM
- RST: DLI

Input Appendix(es):

- APP: CM-IM-REASON
- APP: RANGES
DGN:DNUSCC

Software Release: 5E14 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Requests that diagnostics be executed on a digital networking unit - synchronous optical network (DNU-S) common controller (DNUSCC).

2. FORMAT

DGN:DNUSCC=a-b-c[,PH=d[&e]][,RPT=f][,GROW][,RAW][,TLP][,UCL];

3. EXPLANATION OF MESSAGE

GROW = Allows access to growth equipment.
RAW = Print data from raw data test failure.
TLP = Print the ordered pack list if a test fails.
UCL = Execute and print all test failures unconditionally rather than stopping after the first test failure.

a = Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
b = DNU-S number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
c = Common controller number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
d = The number of the phase to be run, or the lower limit of a range of phases.
e = The upper limit of a range of phases to be run.
f = The number of times the diagnostic phases are to be repeated (1-32676). If ‘f’ is not specified, the phases will be repeated 32,767 times.

4. SYSTEM RESPONSE

NG = No good. The message form is valid, but the request conflicts with the current status.
PF = Printout follows. The DGN:DNUSCC output message follows.
RL = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

Input Message(s):
OP : DMQ
RST : DNUSCC
STP : DNUSCC

Output Message(s):
DGN : DNUSCC

Input Appendix(es):
APP : RANGES

MCC Display Page(s):
1510 (DNUS STATUS)
DGN:DNUSCD

Software Release: 5E14 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Requests that diagnostics be executed on a digital networking unit - synchronous optical network (DNU-S) common data (DNUSCD).

2. FORMAT

DGN:DNUSCD=a-b-c-d[,PH=e[&f]][,RPT=[g]][,GROW][,RAW][,TLP][,UCL];

3. EXPLANATION OF MESSAGE

GROW = Allows access to growth equipment.
RAW = Print data from raw data test failure.
TLP = Print the ordered pack list if a test fails.
UCL = Execute and print all test failures unconditionally rather than stopping after the first test failure.
a = Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
b = DNU-S number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
c = Data group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
d = Common data number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
e = The number of the phase to be run, or the lower limit of a range of phases.
f = The upper limit of a range of phases to be run.
g = The number of times the diagnostic phases are to be repeated (1-32676). If 'g' is not specified, the phases are repeated 32,767 times.

4. SYSTEM RESPONSE

NG = No good. The message form is valid, but the request conflicts with the current status.
PF = Printout follows. The DGN:DNUSCD output message follows.
RL = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES
Input Message(s):
   OP : DMQ
   RST : DNUSCD
   STP : DNUSCD

Output Message(s):
   DGN : DNUSCD

Input Appendix(es):
   APP : RANGES

MCC Display Page(s):
   1510 (DNUS STATUS)
DGN:DSC

**Software Release:** 5E14 and later
**Command Group:** SM
**Application:** 5
**Type:** Input

### 1. PURPOSE

Requests that a digital service circuit (DSC) be removed and diagnosed. This circuit will remain out-of-service (OOS), regardless of the diagnostic's result, until a restore (RST) is requested.

A DSC circuit is defined as a universal tone generator (UTG), universal tone detector (UTD), universal conference circuit (UCONF), or transmission test facility common circuit (TTFCOM) circuit. These circuits are part of local digital service units (LDSU) or global digital service units (GDSU). The LDSU contains the UTG and UTD circuits while the GDSU contains the UCONF and TTFCOM circuits. To obtain a cross reference between the DSC number and the actual circuit, refer to the desired MCC page under LDSU or GDSU.

### 2. FORMAT

DGN:DSC=a-b-c-d[,RAW][,UCL][,TLP][,RPT[=e]][,GROW][,PH=f[&g];

### 3. EXPLANATION OF MESSAGE

- **GROW** = Allow access to growth equipment.
- **RAW** = Print raw test results (all tests passed (ATP)/some tests failed (STF)) for each phase executed.
- **TLP** = Print the ordered suspect pack list if a test fails.
- **UCL** = Unconditionally execute and print all test results requested rather than stopping on first failing phase.
- **a** = Switching module (SM) number.
- **b** = Local or global digital service unit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
- **c** = Service group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
- **d** = DSC number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
- **e** = The number of times that the test is to be repeated. If ‘e’ is not specified, the test will be repeated 32,767 times.

**NOTE:** The UTD diagnostic has 5 phases (1-5). UTG has 3 phases (1-3), UCONF has 5 phases (1-5), and TTFCOM has 13 phases (1-4, 7-15).

- **f** = Diagnostic phase to be performed, or the lower limit of a range of phases.
- **g** = Upper limit of a range of diagnostic phases to be performed.

### 4. SYSTEM RESPONSE
NG = No good. The request has been denied. The message form is valid, but the request conflicts with current status.

PF = Printout follows. The request was accepted. The DGN:DSC output message follows when the diagnostic is executed.

5. REFERENCES

Input Message(s):

RMV:DSC
RST:DSC

Output Message(s):

DGN:TTFCOM
DGN:UCONF
DGN:UTD
DGN:UTG

Input Appendix(es):

APP:RANGES

Other Manual(s):
235-105-220 Corrective Maintenance

MCC Display Page(s):

1080 (LDSU)
110y (GDSU)
DGN:DUIC

**Software Release:** 5E14 and later  
**Command Group:** AM  
**Application:** 5,3B  
**Type:** Input

1. PURPOSE

Diagnoses the specified direct user interface controller (DUIC).

**NOTE:** The input/output processor (IOP) must be in service before the DUIC can be diagnosed.

2. FORMAT

DGN:DUIC=a[:[RPT=b][,RAW][,UCL][,REX|,DEX]][,PH=c[&d]][,TLP][,CONT];

3. EXPLANATION OF MESSAGE

- **CONT** = Includes only the specified unit (controller). Units attached to the specified unit will not be included. If the specified unit has no attached units, CONT is ignored.
- **DEX** = Runs demand exercise phases in addition to routine exercise and normal (automatic) phases. This option will not allow special demand exercise phases that require user interaction to be run even if the range of phases specified includes such a phase.
- **RAW** = Prints the diagnostic results of every phase. The default is the first five failures of each failing phase.
- **REX** = Runs routine exercise phases in addition to the normal (automatic) phases. This option will not allow demand exercise phases to be run even if the range of phases specified includes such a phase.
- **TLP** = Executes the trouble locating procedure (TLP) at the conclusion of the diagnostic. This process generates a list of suspected faulty equipment.

**NOTE:** The TLP and UCL parameters should not be used together, as additional test results may adversely affect the TLP listing.

- **UCL** = Unconditional execution.  
  Note: This option does not override a forced early termination.

- **a** = Member number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

- **b** = Number of times the diagnostic is repeated. The maximum is 256. The default is one.  
  Note: This option does not override early terminations. UCL should also be specified if the diagnostic terminates.

- **c** = Number of the phase to be executed, or the first number in a range of phases.

- **d** = Specifies the last phase to be executed.
4. SYSTEM RESPONSE

PF = Printout follows. Followed by the DGN:DUIC output message.

5. REFERENCES

Input Message(s):

OP:DMQ
RMV:DUIC
RST:DUIC
STOP:DMQ
STP:DMQ

Output Message(s):

ANALY:TLPFILE
DGN:DUIC
OP:DMQ

Input Appendix(es):

APP:RANGES

Other Manual(s):
235-105-220  Corrective Maintenance
DGN:EAN

**Software Release:** 5E14 and later  
**Command Group:** SM  
**Application:** 5  
**Type:** Input

1. **PURPOSE**

Requests that an equipment access network (EAN) be diagnosed to determine whether it is in satisfactory working order.

2. **FORMAT**

```
DGN:EAN=a-b[,RAW][,UCL][,RPT=[c]][,GROW][,PH=d[&e]][,TLP];
```

3. **EXPLANATION OF MESSAGE**

- **GROW** = Allow access to growth equipment.
- **RAW** = Print raw test failure data.
- **TLP** = Print the ordered pack list.
- **UCL** = Unconditionally execute and print all test failures.
- **a** = Switching module number.
- **b** = Directly connected test unit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
- **c** = The number of times the test is to be repeated. If ‘c’ is not specified, the test will be repeated 32,767 times.
- **d** = Diagnostic phase(s) to be performed. If ‘d’ is specified as a single phase, only that phase will be performed. If ‘d’ is specified as a range, ‘d’ will be the first phase in that range to be performed.
- **e** = The last diagnostic phase in the range between and including ‘d’ and ‘e’ to be performed.

4. **SYSTEM RESPONSE**

- **NG** = No good. The request has been denied. The message form is valid, but the request conflicts with current status.
- **PF** = Printout follows. The request was accepted. Followed by the DGN:EAN output message.

5. **REFERENCES**

**Output Message(s):**

DGN:EAN

**Input Appendix(es):**
APP : RANGES
DGN:FPC

Software Release: 5E14 and later
Command Group: CM
Application: 5
Type: Input

1. PURPOSE

Requests diagnostics on a foundation peripheral controller (FPC) to determine if it is in satisfactory working order.

Note: This command is not applicable to offices having CM3 vintage communications modules.

2. FORMAT

DGN:FPC=a[,RAW][,UCL][,RPT [=b]][,PH=c[&d]][,TLP];

3. EXPLANATION OF MESSAGE

<table>
<thead>
<tr>
<th>RAW</th>
<th>= Print data from raw data test failure.</th>
</tr>
</thead>
<tbody>
<tr>
<td>TLP</td>
<td>= Print the ordered pack list.</td>
</tr>
<tr>
<td>UCL</td>
<td>= Execute unconditionally.</td>
</tr>
<tr>
<td>a</td>
<td>= FPC number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.</td>
</tr>
<tr>
<td>b</td>
<td>= The number of times the test is to be repeated. If 'b' is not specified, the test will be repeated 32,767 times.</td>
</tr>
<tr>
<td>c</td>
<td>= Diagnostic phase to be performed or lower limit in a range of phases.</td>
</tr>
<tr>
<td>d</td>
<td>= Upper limit in a range of phases.</td>
</tr>
</tbody>
</table>

4. SYSTEM RESPONSE

| NG     | = No good. The message form is valid, but the request conflicts with current status. |
| PF     | = Printout follows.                  |
| RL     | = Retry later. The request cannot be executed now. |

5. REFERENCES

Input Message(s):

ABT:FPC
OP:DMQ
STP:FPC

Output Message(s):
DGN: FPC

Input Appendix(es):

APP: RANGES

Other Manual(s):
235-105-210  Routine Operations and Maintenance
235-105-220  Corrective Maintenance

MCC Display Page(s):
1240,1250 (MSGS STATUS)
1.  PURPOSE
Diagnoses a global digital services function (GDSF) circuit to determine whether it is in satisfactory working order. The circuit is left out of service (OOS).

2.  FORMAT
DGN:GDSF=a-b[,RAW][,UCL][,RPT[=c]][,GROW][,PH=d&[e]][,TLP];

3.  EXPLANATION OF MESSAGE
GROW = Allow access to growth equipment.
RAW = Print raw test failure data.
TLP = Print the ordered pack list.
UCL = Unconditionally executes. DGN will continue past all non-fatal failures.
a = Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
b = GDSF number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
c = The number of times the test is to be repeated. If ‘c’ is not specified, the test will be repeated 32,767 times.
d = Number of the diagnostic phase(s) to be performed. If ‘d’ is specified as a single phase, only that phase will be performed. If ‘d’ is specified as a range, ‘d’ will be the first phase in that range to be performed.
e = Number of the last diagnostic phase in the range between and including ‘d’ and ‘e’ to be performed.

4.  SYSTEM RESPONSE
NG = No good. The request has been denied. The message form is valid, but the request conflicts with current status.
PF = Printout follows. The request was accepted. Followed by a DGN:GDSF output message.

5.  REFERENCES
Output Message(s):
DGN:GDSF
DGN:GDSUCOM

Software Release: 5E14 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Requests that a global digital service unit common (GDSUCOM) board be diagnosed to determine whether it is in satisfactory working order.

2. FORMAT

DGN:GDSUCOM=a-b-c[,RAW][,UCL][,SVG][,RPT=[+d]][,GROW][,PH=e[&f]][,TLP];

3. EXPLANATION OF MESSAGE

GROW  = Allow access to growth equipment.
RAW   = Print raw test failure data.
SVG   = Run diagnostics on the entire service group, including the demand phases.
TLP   = Print the ordered pack list.
UCL   = Unconditionally execute and print all test failures.

a = Switching module number.
b = Global digital service unit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
c = Service group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
d = The number of times the test is to be repeated. If 'd' is not specified, the test will be repeated 32,767 times.
e = Diagnostic phases to be performed. If 'e' is specified as a single phase, only that phase will be performed. If 'e' is specified as a range, 'e' will be the first phase in that range to be performed.
f = The last diagnostic phase in the range between and including 'e' and 'f' to be performed.

4. SYSTEM RESPONSE

NG  = No good. The request has been denied. The message form is valid, but the request conflicts with current status.
PF  = Printout follows. The request was accepted. Followed by the DGN:GDSUCOM output message.

5. REFERENCES

Output Message(s):
1. PURPOSE

Requests that a gated diode crosspoint access (GDXACC) circuit be removed and diagnosed. This circuit will remain out-of-service (OOS), regardless of the diagnostic's result, until a restore (RST) is requested.

2. FORMAT

DGN:GDXACC=a-b-c[,RAW][,UCL][,RPT[=d]][,GROW][,PH=e[&f][,TLP];

3. EXPLANATION OF MESSAGE

GROW        Allow access to growth equipment.
RAW         = Prints raw test results (all tests passed (ATP)/some tests failed (STF)) for each phase executed.
TLP         = Print the ordered suspect pack list if a test fails.
UCL         = Unconditionally execute and print all test results requested rather than stopping on first failing phase.

a = Switching module (SM) number.
b = Line unit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
c = Service group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
d = The number of times the test is to be repeated. If 'd' is not specified, the test will be repeated 32,767 times.
e = Diagnostic phase to be performed (1-6). If 'e' is specified as a single phase, only that phase will be performed. If 'e' is specified in a range, 'e' will be the first phase in that range to be performed.
f = The last diagnostic phase in the range between and including 'e' and 'f' to be performed.

4. SYSTEM RESPONSE

NG  = No good. The request has been denied. The message form is valid, but the request conflicts with current status.
PF = Printout follows. The request was accepted. The DGN:GDXACC output message follows when the diagnostic is executed.

5. REFERENCES

Input Message(s):
EX: GDXACC
RMV: GDXACC
RST: GDXACC
STP: GDXACC

Output Message(s):
DGN: GDXACC

Input Appendix(es):
APP: RANGES
1. PURPOSE

Requests that a gated diode crosspoint compensator (GDXC) circuit be removed and diagnosed. The circuit will remain out-of-service (OOS), regardless of the diagnostic's result until a restore (RST) is requested.

The modular metallic service unit (MSU) GDXC uses a TN880 type circuit pack and the non-modular MSU GDXC uses type TN140 circuit pack.

2. FORMAT

DGN:GDXC=a-b-c-d[,RAW][,UCL][,RPT[]=e][,GROW][,PH=f[&g]][,TLP];

3. EXPLANATION OF MESSAGE

GROW = Allow access to growth equipment.

RAW = Prints raw test results [all tests passed (ATP)/some tests failed (STF)] for each phase executed.

TLP = Print the ordered suspect pack list if a test fails.

UCL = Unconditionally execute and print all test results requested rather than stopping on first failing phase.

a = Switching module (SM) number.

b = Metallic service unit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

c = Service group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

d = Metallic service unit board position (or metallic service circuit) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

e = The number of times the test is to be repeated. If 'e' is not specified, the test will be repeated 32,767 times.

f = Diagnostic phase to be performed(1). If 'f' is specified as a single phase, only that phase will be performed. If 'f' is specified in a range, 'f' will be the first phase in that range to be performed.

g = The last diagnostic phase in the range between and including 'f' and 'g' to be performed.

4. SYSTEM RESPONSE

NG = No good. The request has been denied. The message form is valid, but the request conflicts with current status.

PF = Printout follows. The request was accepted. The DGN:GDXC output message follows when the
diagnostic is executed.

5. REFERENCES

Input Message(s):

EX: GDXC
RMV: GDXC
RST: GDXC
STP: GDXC

Output Message(s):

DGN: GDXC

Input Appendix(es):

APP: RANGES
1. PURPOSE

Requests that a gated diode crosspoint control (GDXCON) circuit be removed and diagnosed. This circuit will remain out of service (OOS), regardless of the diagnostic's result, until a restore (RST) is requested.

This circuit does not exist in LU2 line units.

2. FORMAT


3. EXPLANATION OF MESSAGE

GROW = Allow access to growth equipment.
RAW = Print raw test results [all tests passed (ATP)/some tests failed (STF)] for each phase executed.
TLP = Print the ordered suspect pack list if a test fails.
UCL = Unconditionally execute and print all test results requested rather than stopping on first failing phase.

a = Switching module (SM) number.
b = Line unit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
c = Service group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
d = The number of times the test is to be repeated. If 'd' is not specified, the test will be repeated 32,767 times.
e = Number of the diagnostic phase to be performed (1-6). If 'e' is specified as a single phase, only that phase will be performed. If 'e' is specified in a range, 'e' will be the first phase in that range to be performed.
f = Number of the last diagnostic phase in the range between and including 'e' and 'f' to be performed.

4. SYSTEM RESPONSE

NG = No good. The request has been denied. The message form is valid, but the request conflicts with current status.
PF = Printout follows. The request was accepted. The DGN:GDXCON output message follows when the diagnostic is executed.
5. REFERENCES

Input Message(s):

EX: GDXCON
RST: GDXCON
STP: GDXCON

Output Message(s):

DGN: GDXCON

Input Appendix(es):

APP: RANGES
1. PURPOSE

Requests that a gated diode crosspoint grid (GRID) in a line unit concentrator be removed from service and diagnosed. The grid diagnostic does a check of basic power and control access. For a complete test, restore the grid to service and run in-service grid exercises using the TST:GRID input message.

NOTE: Upon completion of this input message, the grid and all lines it serves will remain out of service until a RST:GRID input message is entered.

2. FORMAT

DGN:GRID=a-b-c[,RAW][,UCL][,RPT[=d]][,GROW][,PH=e[&f]][,TLP];

3. EXPLANATION OF MESSAGE

GROW = Allow access to growth equipment.
RAW = Print raw test failure results for each phase executed.
TLP = Print the ordered suspect pack list if a test fails.
UCL = Unconditionally execute and print all test failures rather than stopping after the first test failure.
a = Switching module (SM) number.
b = Line unit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
c = Grid number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
d = The number of times the test is to be repeated. Default is 32,767.
Note: Use of the default for variable ‘d’ is not recommended since lines on the grid will remain out of service for a long time and until a RST input message is entered.
e = Number of the diagnostic phase(s) to be performed or the lower limit of a range of diagnostic phases.
f = The upper limit of a range of diagnostic phases.

4. SYSTEM RESPONSE

NG = No good. The request has been denied. The message form is valid, but the request conflicts with current status.
PF = Printout follows. The request was accepted. The DGN:GRID output message follows after the diagnostic is executed.
5. REFERENCES

Input Message(s):

RST:GRID
STP:GRID
TST:GRID

Output Message(s):

DGN:GRID

Input Appendix(es):

APP:RANGES

Other Manual(s):
235-105-110  System Maintenance Requirements and Tools
DGN:GRIDBD

Software Release: 5E14 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Diagnoses a line unit model 2; (LU2) or line unit model 3; (LU3) grid board to determine if it is in satisfactory working order.

2. FORMAT

DGN:GRIDBD=a-b-c-d[,RAW][,UCL][,RPT[=e]][,GROW][,PH=f[&g]][,TLP];

3. EXPLANATION OF MESSAGE

GROW = Allow access to growth equipment.

RAW = Print data from raw data test failure.

TLP = Print the ordered pack list.

UCL = Unconditionally execute the diagnostic without terminating on the first error.

a = Switching module number.

b = Line unit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

c = Grid number (LU2). Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

c = Grid number (LU3). Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

d = Board number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

e = The number of times the test is to be repeated. If 'e' is not specified, the test will be repeated 32,767 times.

f = The number of the diagnostic phase to be performed, or the lower limit of a range of phases.

g = The upper limit in the range of diagnostic phases to be performed.

4. SYSTEM RESPONSE

NG = No good. The request has been denied. The message form is valid, but the request conflicts with current status.

PF = Printout follows. Followed by the DGN:GRIDBD output message.

RL = Retry later. The request cannot be executed now due to unavailable system resources.
5. REFERENCES

Output Message(s):

DGN: GRIBD

Input Appendix(es):

APP: RANGES
DGN:HDFI

Software Release: 5E14 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Requests that a host switching module (HSM) digital facilities interface (HDFI) circuit be diagnosed to determine if it is in working order.

2. FORMAT

DGN:HDFI=a-b-c[,RAW][,UCL][,RPT[=d]][,GROW][,PH=e[&f]][,TLP];

3. EXPLANATION OF MESSAGE

GROW = Allow access to growth equipment.
RAW = Print raw data test failure.
TLP = Print the ordered pack list if diagnostic fails.
UCL = Unconditionally execute.
a = Switching module (SM) number.
b = Digital line and trunk unit (DLTU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
c = HDFI number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
d = The number of times the test is to be repeated. If ‘d’ is not specified, the test will be repeated 32,767 times.
e = Number of the diagnostic phase(s) to be run.
f = Last phase in the range from ‘e’ to ‘f’ to be run.

4. SYSTEM RESPONSE

NG = No good. Request denied because of a conflict with current status.
PF = Printout follows. Followed by the DGN:HDFI output message.

5. REFERENCES

Output Message(s):

DGN:HDFI

Input Appendix(es):
APP: RANGES
DGN:HSDC

**Software Release:** 5E14 and later
**Command Group:** AM
**Application:** 5,3B
**Type:** Input

1. PURPOSE
Diagnoses the specified high-speed synchronous data link controller (HSDC).

**NOTE:** The input/output processor (IOP) must be in service before the HSDC can be diagnosed.

2. FORMAT

```
```

3. EXPLANATION OF MESSAGE

- **CONT** = Includes only the specified unit (controller). Units attached to the specified unit will not be included. If the specified unit has no attached units, CONT is ignored.

- **DEX** = Runs demand exercise phases in addition to routine exercise and normal (automatic) phases. This option will not allow special demand exercise phases that require user interaction to be run even if the range of phases specified includes such a phase.

- **RAW** = Prints the diagnostic results of every phase. The default is the first five failures of each failing phase.

- **REX** = Runs routine exercise phases in addition to the normal (automatic) phases. This option will not allow demand exercise phases to be run even if the range of phases specified includes such a phase.

- **TLP** = Executes the trouble locating procedure (TLP) at the conclusion of the diagnostic. This process generates a list of suspected faulty equipment.

**NOTE:** The TLP and UCL parameters cannot be used together, as additional test results may adversely affect the TLP listing.

- **UCL** = Unconditional execution.

**NOTE:** This option does not override a forced early termination.

- **a** = Member number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

- **b** = Number of times the diagnostic is repeated. The maximum is 256. The default is one.

  **Note:** This option does not override early terminations. UCL should also be specified if the diagnostic terminates.

- **c** = Specifies the first phase to be executed.

- **d** = Specifies the last phase to be executed.
4. SYSTEM RESPONSE

PF = Printout follows. Followed by the DGN:HSDC output message.

5. REFERENCES

Input Message(s):

RMV:HSDC
RST:HSDC
RST:IOF
STOP:DMQ
STP:DMQ

Output Message(s):

ANALY:TLFFILE
DGN:HSDC
RST:IOF

Input Appendix(es):

APP:RANGES

Other Manual(s):
235-105-220 Corrective Maintenance
DGN:IDCU

Software Release: 5E14 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Requests that an integrated digital carrier unit (IDCU) service group circuit be diagnosed. Completion of this input message leaves the circuit in the out-of-service state.

NOTE: If the circuit is not initially out of service, the system will first remove the circuit conditionally.

2. FORMAT

DGN:IDCU=a-b-c[,RAW][,UCL][,RPT=[d]][,GROW][,PH=e[&f]][,TLP];

3. EXPLANATION OF MESSAGE

GROW = Allow diagnostic access to growth equipment

RAW = Print raw test failure data.

TLP = Trouble location procedure. Print the ordered pack list.

UCL = Unconditionally execute past all non-fatal errors and print out all test failures.

a = Switching module (SM) number.

b = IDCU number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

c = IDCU service group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

d = Number of times that the test is to be repeated (RPT), default is 32,767 times.

e = Diagnostic phase (PH) to be executed, or the lower limit of a range of diagnostic phases.

f = The upper limit of a range of diagnostic phases.

4. SYSTEM RESPONSE

PF = Printout follows. The DGN:IDCU output message follows.

NG = No good. The request has been denied. The message is valid but the request conflicts with current status.

RL = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

Input Message(s):
DGN:IOP

**Software Release:** 5E14 and later  
**Command Group:** AM  
**Application:** 5,3B  
**Type:** Input

1. PURPOSE

Diagnoses the specified input/output processor (IOP).

**NOTE:** The peripheral controllers (PCs) cannot be diagnosed if the IOP is not in service. Therefore, an IOP and its associated PCs cannot be diagnosed with one input message.

2. FORMAT


3. EXPLANATION OF MESSAGE

- **CONT** = Includes only the specified unit (controller). Units attached to the specified unit will not be included. Defaulted is diagnose IOP a only.

- **DEX** = Runs demand exercise phases in addition to routine exercise and normal (automatic) phases. This option will not allow special demand exercise phases that require user interaction to be run even if the range of phases specified includes such a phase.

- **RAW** = Prints the diagnostic results of every phase. The default is the first five failures of each failing phase.

- **REX** = Runs routine exercise phases in addition to the normal (automatic) phases. This option will not allow demand exercise phases to be run even if the range of phases specified includes such a phase.

- **TLP** = Executes the trouble locating procedure (TLP) at the conclusion of the diagnostic. This process generates a list of suspected faulty equipment.

**NOTE:** The TLP and UCL parameters cannot be used together, as additional test results may adversely affect the TLP listing.

- **UCL** = Unconditional execution.  
  **NOTE:** This option does not override a forced early termination.

- **a** = Member number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

- **b** = Number of times the diagnostic is to be repeated. The maximum is 256. The default is one.  
  **NOTE:** This option does not override early terminations. UCL should also be specified if the diagnostic terminates.

- **c** = Specifies the first phase to be executed.

- **d** = Specifies the last phase to be executed.
e  = Member number of the CU helper unit. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual. When a helper unit is not required, the specified helper unit is not used. When a helper unit is required but the specified helper unit is inappropriate or unavailable, the helper unit dependent tests are skipped. The off-line CU is required as a helper unit when demand phase 15 is executed.

**NOTE:** The helper CU must be out-of-service (OOS) and must be diagnosed as all tests pass (ATP) before it is used as a helper unit.

4. SYSTEM RESPONSE

**PF**

= Printout follows. Followed by the DGN:IOP output message.

**RL**

= Retry later. The system is in an overload condition.

**?I**

= General syntax error followed by the parameter position and one of the following reasons:
- EXTRA KEYWORD = Duplicate or extraneous keywords were input.
- INVALID KEYWORD = The keyword in the stated parameter position is not a valid keyword.
- MISSING DATA = Data required for a keyword in the stated parameter block was not found.
- RANGE ERROR = Input is out of the valid range.

**?D**

= General syntax error in the data field followed by the parameter position and one of the following reasons:
- EXTRA KEYWORD = Duplicate or extraneous keywords were input.
- INCONSISTENT KEYWORD = The combination of keywords is not a valid combination.
- INVALID DATA = Not a valid value for the phrase option.
- INVALID KEYWORD = The keyword in the stated parameter position is not a valid keyword.

**?E**

= Input error of undetermined type.

5. REFERENCES

Input Message(s):

OP:DMQ
RMV:IOP
RST:IOP
STOP:DMQ

Output Message(s):

ANALY:TLPFILE
DGN:IOP
OP:DMQ-CM
OP:DMQ-SM

Input Appendix(es):

APP:RANGES
Other Manual(s):
235-105-220  Corrective Maintenance

MCC Display Page(s):
(COMMON PROCESSOR DISPLAY)
DGN:ISLUCC

**Software Release:** 5E14 and later
**Command Group:** SM
**Application:** 5
**Type:** Input

1. **PURPOSE**

Requests that diagnostics be executed on an integrated services line unit common controller (ISLUCC).

2. **FORMAT**

\[
\text{DGN:ISLUCC}=a-b-c[,PH=d[&e]][,RPT\{f\}[,GROW][,RAW][,TLP][,UCL];}
\]

3. **EXPLANATION OF MESSAGE**

- **GROW** = Allows access to growth equipment.
- **RAW** = Print data from raw data test failure.
- **TLP** = Print the ordered pack list.
- **UCL** = Execute and print all test failures unconditionally rather than stopping after the first test failure.
- **a** = Switching module (SM) number.
- **b** = Integrated services line unit (ISLU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
- **c** = Common controller number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
- **d** = The number of the phase to be run, or the lower limit of a range of phases.
- **e** = The upper limit of a range of phases to be run.
- **f** = The number of times the exercise is to be repeated (1-32676). If 'f' is not specified, the test will be repeated 32,767 times.

4. **SYSTEM RESPONSE**

- **NG** = No good. The message form is valid, but the request conflicts with the current status.
- **PF** = Printout follows. The DGN:ISLUCC output message follows.
- **RL** = Retry later. The request cannot be executed now due to unavailable system resources.

5. **REFERENCES**

Input Message(s):

- **OP : DMQ**
Output Message(s):
  DGN : ISLUCC

Input Appendix(es):
  APP : RANGES

MCC Display Page(s):
  170x (ISLU NETWORK)
  170xy (ISLU LINE GROUP)
DGN:ISLUCD

Software Release: 5E14 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE
Requests that diagnostics be executed on an integrated services line unit common data (ISLUCD).

2. FORMAT
DGN:ISLUCD=a-b-c[,CAMPON=d][,PH=e[&f]][,RPT=[g]][,GROW][,RAW][,TLP][,UCL];

3. EXPLANATION OF MESSAGE
   GROW = Allows access to growth equipment.
   RAW = Print data from raw data test failure.
   TLP = Print the ordered pack list.
   UCL = Execute and print all test failures unconditionally rather than stopping after the first test failure.
   a = Switching module (SM) number.
   b = Integrated services line unit (ISLU) number. Refer to the APP:RANGES appendix in the
      Appendixes section of the Input Messages manual.
   c = Common data number. Refer to the APP:RANGES appendix in the Appendixes section of the
      Input Messages manual.
   d = Camp-on time in minutes. If CAMPON is not specified, camp on time defaults to 6 minutes.
      Maximum time allowed is 20 minutes.
   e = The number of the phase to be run, or the lower limit of a range of phases.
   f = The upper limit of a range of phases to be run.
   g = The number of times the exercise is to be repeated (1-32676). If 'g' is not specified, the test will
      be repeated 32,767 times.

4. SYSTEM RESPONSE
   NG = No good. The message form is valid, but the request conflicts with the current status.
   PF = Printout follows. The DGN:ISLUCD output message follows.
   RL = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES
Input Message(s):
OP : DMQ

Output Message(s):
  DGN : ISLUCD

Input Appendix(es):
  APP : RANGES

MCC Display Page(s):
  170x (ISLU NETWORK)
  170xy (ISLU LINE GROUP)
DGN:ISLUHLSC
Software Release: 5E14 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE
Diagnoses an integrated services line unit high level service circuit (ISLUHLSC) to determine whether it is in satisfactory working order.

2. FORMAT
DGN:ISLUHLSC=a-b-c-d[,RAW][,UCL][,RPT[=e]][,GROW][,PH={f|f&g}][,TLP];

3. EXPLANATION OF MESSAGE
GROW = Allow diagnostic access to growth equipment.
RAW = Print raw test failure data.
TLP = Print the ordered pack list.
UCL = Unconditionally execute non-fatal errors and print all test failures.
a = Switching module (SM) number.
b = ISLU number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
c = ISLU service group. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
d = High level service circuit. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
e = The number of times that the test is to be repeated. If ‘e’ is not specified the test will be repeated 32,767 times.
f = Diagnostic phase to be executed. If only ‘f’ is specified a single phase will be executed. If ‘f&g’ is specified as part of a range, it will be the first phase executed.
g = The last diagnostic phase in the range between and including ‘f’ and ‘g’ to be executed.

4. SYSTEM RESPONSE
NG = No good. The request has been denied. The message is valid but the request conflicts with the current status.
PF = Printout follows. The DGN:ISLUHLSC output message follows.
RL = Retry later. The request cannot be executed now due to unavailable system resources.
5. REFERENCES

Output Message(s):

DGN: ISLUHLSC

Input Appendix(es):

APP : RANGES

MCC Display Page(s):

170x (ISLU NETWORK PAGE)
171x (ISLU-Z PAGE)
DGN:ISLULBD

Software Release: 5E14 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE
Requests that diagnostics be executed on an integrated services line unit line board (ISLULBD).

2. FORMAT

DGN:ISLULBD=a-b-c-d[,CAMPON=e][,PH=f[&g]][,RPT[=h]][,GROW][,RAW][,TLP][,UCL];

3. EXPLANATION OF MESSAGE

GROW = Allows access to growth equipment.
RAW = Print data from raw data test failure.
TLP = Print the ordered pack list.
UCL = Unconditionally execute and print test failures rather than stopping after the first test failure.

a = Switching module (SM) number.
b = Integrated services line unit (ISLU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
c = Line group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
d = Line board number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
e = Camp-on time in minutes (1-20). If CAMPON is not specified, camp-on time defaults to 6 minutes. Maximum time allowed is 20 minutes.
f = The number of the phase to be run, or the lower limit of a range of phases.
g = The upper limit of a range of phases to be run.
h = The number of times the exercise is to be repeated (1-32676). If ‘h’ is not specified, the test will be repeated 32,767 times.

4. SYSTEM RESPONSE

NG = No good. The message form is valid, but the request conflicts with the current status.
PF = Printout follows. The DGN:ISLULBD output message follows.
RL = Retry later. The request cannot be executed now due to unavailable system resources.
5. REFERENCES

Input Message(s):
   OP : DMQ

Output Message(s):
   DGN : ISLULBD

Input Appendix(es):
   APP : RANGES
DGN:ISLULC

Software Release: 5E14 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE
Requests that diagnostics be executed on an integrated services line unit line card (ISLULC).

2. FORMAT
DGN:ISLULC=a-b-c-d[,]CAMPON=e[,]PH=f[,]&g[,]RPT=[h],[,GROW]
[,]RAW[,]TLP[,]UCL;

3. EXPLANATION OF MESSAGE
GROW = Allows access to growth equipment.
RAW = Print data from raw data test failure.
TLP = Print the ordered pack list.
UCL = Unconditionally execute and print test failures rather than stopping after the first test failure.
a = Switching module (SM) number.
b = Integrated services line unit (ISLU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
c = Line group controller number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
d = Line card number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
e = Camp-on time in minutes (1-20). If CAMPON is not specified, camp-on time defaults to 6 minutes. Maximum time allowed is 20 minutes.
f = The number of the phase to be run, or the lower limit of a range of phases.
g = The upper limit of a range of phases to be run.
h = The number of times the exercise is to be repeated (1-32676). If 'h' is not specified, the test will be repeated 32,767 times.

4. SYSTEM RESPONSE
NG = No good. The message form is valid, but the request conflicts with the current status.
PF = Printout follows. The DGN:ISLULC output message follows.
RL = Retry later. The request cannot be executed now due to unavailable system resources.
5. REFERENCES

Input Message(s):

OP : DMQ

Output Message(s):

DGN : ISLULC

Input Appendix(es):

APP : RANGES

MCC Display Page(s):

170x (ISLU NETWORK)
170xy (ISLU LINE GROUP)
DGN:ISLULCKT

**Software Release:** 5E14 and later  
**Command Group:** SM  
**Application:** 5  
**Type:** Input

### 1. PURPOSE

Requests that diagnostics be executed on an integrated services line unit line circuit (ISLULCKT).

### 2. FORMAT

DGN:ISLULCKT=a-b-c-d-e[,CAMPON=f][,PH=g[&h]][,RPT=i][,GROW][,RAW][,TLP][,UCL];

### 3. EXPLANATION OF MESSAGE

- **GROW** = Allows access to growth equipment.
- **RAW** = Print data from raw data test failure.
- **TLP** = Print the ordered pack list.
- **UCL** = Unconditionally execute and print test failures rather than stopping after the first test failure.
- **a** = Switching module (SM) number.
- **b** = Integrated services line unit (ISLU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
- **c** = Line group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
- **d** = Line board number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
- **e** = Line circuit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
- **f** = Camp-on time in minutes (1-20). If CAMPON is not specified, camp-on time defaults to 6 minutes. Maximum time allowed is 20 minutes.
- **g** = The number of the phase to be run, or the lower limit of a range of phases.
- **h** = The upper limit of a range of phases to be run.
- **i** = The number of times the exercise is to be repeated (1-32676). If 'h' is not specified, the test will be repeated 32,767 times.

### 4. SYSTEM RESPONSE

- **NG** = No good. The message form is valid, but the request conflicts with the current status.
- **PF** = Printout follows. The DGN:ISLULCKT output message follows.
RL = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

Input Message(s):

OP: DMQ

Output Message(s):

DGN: ISLULCKT

Input Appendix(es):

APP: RANGES
DGN:ISLULG
Software Release: 5E14 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE
Requests that diagnostics be executed on an integrated services line unit line group (ISLULG). When diagnosing an ISLU LC sub-unit option, the line group (LG) will be removed from service, which might disrupt the stability of other active line circuits and degrade service.

2. FORMAT
DGN:ISLULG=a-b-c[,CAMPON=d][,PH=e[&f]][,RPT[=g]][,LB=h[&i]][,GROW][,RAW][,TLP][,UCL];

3. EXPLANATION OF MESSAGE
GROW = Allows access to growth equipment.
RAW = Print data from raw data test failure.
TLP = Print the ordered pack list.
UCL = Execute and print all test failures unconditionally rather than stopping after the first test failure.
a = Switching module (SM) number.
b = Integrated services line unit (ISLU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
c = Line group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
d = Camp-on time is minutes (1-20). If CAMPON is not specified, camp-on time defaults to 6 minutes. Maximum time allowed is 20 minutes.
e = The number of the phase to be run, of the lower limit of range of phases.
f = The upper limit of a range of phases to be run.
g = The number of times the exercise is to be repeated (1-32676). If variable 'g' is not specified, the test will be repeated 32,767 times.
h = Starting range value of LB (line boards) to perform diagnostics on.
i = Ending range value of LB (line boards) on which to perform diagnostics.

If variable 'h' is specified without variable 'i', the single LB specified by variable 'h' will have diagnostics performed on it.

If 'h' and 'i' are specified, all equipped LBs from value 'h' to 'i' will have diagnostics performed on them.
If neither ‘h’ or ‘l’ is specified, diagnostics of LBs in the range (0-7) is performed.

4. SYSTEM RESPONSE

NG = No good. The message form is valid, but the request conflicts with the current status.

PF = Printout follows. The DGN:ISLULG output message follows.

RL = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

Input Message(s):

OP : DMQ

Output Message(s):

DGN : ISLULG

Input Appendix(es):

APP : RANGES

MCC Display Page(s):

170x (ISLU NETWORK)
170xy (ISLU LINE GROUP)
DGN:ISLULGC

Software Release: 5E14 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Requests that diagnostics be executed on an integrated services line unit line group controller (ISLULGC). When diagnosing an ISLU LC sub-unit option, the line group controller (LGC) will be removed from service, which might disrupt the stability of other active LCs and degrade service.

2. FORMAT

DGN:ISLULGC=a-b-c[,CAMPON=d][,PH=e[&f]][,RPT=g][,LC=h[&i]][,GROW][,RAW][,TLP][,UCL];

3. EXPLANATION OF MESSAGE

GROW = Allows access to growth equipment.
RAW = Print data from raw data test failure.
TLP = Print the ordered pack list.
UCL = Execute and print all test failures unconditionally rather than stopping after the first test failure.
a = Switching module (SM) number.
b = Integrated services line unit (ISLU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
c = Line group controller number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
d = Camp-on time is minutes (1-20). If CAMPON is not specified, camp-on time defaults to 6 minutes. Maximum time allowed is 20 minutes.
e = The number of the phase to be run, of the lower limit of range of phases.
f = The upper limit of a range of phases to be run.
g = The number of times the exercise is to be repeated (1-32676). If variable 'g' is not specified, the test will be repeated 32,767 times.
h = Starting range value of LC (line cards) to perform diagnostics on.
i = Ending range value of LC (line cards) on which to perform diagnostics.

If variable 'h' specified without variable 'i', the single LC specified by variable 'h' will have diagnostics performed on it.

If 'h' and 'i' are specified, all equipped LCs from value 'h' to 'i' will have diagnostics performed on them.
If neither 'h' or 'l' is specified, diagnostic of only the ISLULGC is performed.

4. SYSTEM RESPONSE

NG = No good. The message form is valid, but the request conflicts with the current status.

PF = Printout follows. The DGN:ISLULGC output message follows.

RL = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

Input Message(s):
  OP : DMQ

Output Message(s):
  DGN : ISLULGC

Input Appendix(es):
  APP : RANGES

MCC Display Page(s):
  170x (ISLU NETWORK)
  170xy (ISLU LINE GROUP)
DGN:ISLUMAN
Software Release: 5E14 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE
Diagnoses an integrated services line unit metallic access network (ISLUMAN) to determine whether it is in satisfactory working order.

2. FORMAT
DGN:ISLUMAN=a-b-c-d [,RAW] [,UCL] [,RPT[=e ]][,GROW] [,PH={f|f&&g}] [,TLP];

3. EXPLANATION OF MESSAGE
GROW = Allow diagnostic access to
RAW = Print raw test failure data.
TLP = Print the ordered pack list.
UCL = Unconditionally execute non-fatal failures and print all test failures. growth equip.
a = Switching module (SM) number.
b = ISLU number.
c = ISLU service group.
d = Access network board.
e = The number of times that the test is to be repeated. If 'e' is not specified the test will be repeated 32,767 times.
f = Diagnostic phase to be executed. If only 'f' is specified a single phase will be executed. If 'f' is specified as part of a range, it will be the first phase executed.
g = The last diagnostic phase in the range between and including 'f' and 'g' to be executed.

4. SYSTEM RESPONSE
NG = No good. The request has been denied. The message is valid but the request conflicts with the current status.
PF = Printout follows. The DGN:ISLUMAN output message follows.
RL = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES
Output Message(s):
DGN:ISLURG

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1. PURPOSE

Diagnoses an integrated services line unit ringing generator (ISLURG) to determine whether it is in satisfactory working order.

2. FORMAT

\[
\text{DGN:ISLURG}=a-b-c [,\text{RAW}] [,\text{UCL}] [,\text{RPT}=[d ]] [,\text{GROW}] [,\text{PH}=(e|e\&\&f)] [,\text{TLP}];
\]

3. EXPLANATION OF MESSAGE

- **GROW** = Allow diagnostic access to growth equip.
- **RAW** = Print raw test failure data.
- **TLP** = Print the ordered pack list.
- **UCL** = Unconditionally execute non-fatal errors and print all test failures.
- **a** = Switching module (SM) number.
- **b** = ISLU number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
- **c** = ISLU service group. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
- **d** = The number of times that the test is to be repeated. If 'd' is not specified the test will be repeated 32,767 times.
- **e** = Diagnostic phase to be executed. If only 'e' is specified a single phase will be executed. If 'e' is specified as part of a range, it will be the first phase executed.
- **f** = The last diagnostic phase in the range between and including 'e' and 'f' to be executed.

4. SYSTEM RESPONSE

- **NG** = No good. The request has been denied. The message is valid but the request conflicts with the current status.
- **PF** = Printout follows. The DGN:ISLURG output message follows.
- **RL** = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

Output Message(s):
DGN: ISLURG

Input Appendix(es):

APP: RANGES

MCC Display Page(s):

170x (ISLU NETWORK PAGE)
171x (ISLU-Z PAGE)
DGN:ISTF

**Software Release:** 5E14 and later  
**Command Group:** SM  
**Application:** 5  
**Type:** Input

### 1. PURPOSE

Diagnoses and removes an integrated service test function (ISTF) unit to determine whether it is in satisfactory working order. The unit is left out-of-service (OOS).

### 2. FORMAT

```plaintext
DGN:ISTF=a-b[,RAW][,UCL][,RPT[=c]][,GROW][,PH-d[&e]][,TLP];
```

### 3. EXPLANATION OF MESSAGE

- **GROW** = Allow access to growth equipment.
- **RAW** = Print raw test failure data.
- **RPT** = Repeat test option.
- **TLP** = Print the ordered pack list.
- **UCL** = Unconditionally executes. DGN will continue past all non-fatal failures.

- **a** = Switching module (SM) number.
- **b** = ISTF unit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
- **c** = The number of times the test is to be repeated. If ‘c’ is not specified, the test will be repeated 32,767 times.
- **d** = Diagnostic phase to be performed. If ‘d’ is specified as a single phase, only that phase will be performed. If ‘d’ is specified as a range, ’d’ will be the first phase in that range to be performed.
- **e** = The last diagnostic phase in the range between and including ‘d’ and ‘e’ to be performed.

### 4. SYSTEM RESPONSE

- **NG** = No good. The request has been denied because it conflicts with current equipment status. May also include:
  - SM DOES NOT EXIST = The requested SM does not exist in the system.
  - SM UNEQUIPPED = The SM specified in the request is unequipped.
  - UNIT DOES NOT EXIST = The requested unit does not exist in the system.

- **PF** = Printout follows. The request has been accepted. Followed by the DGN:ISTF output message.

- **RL** = Retry later. The request cannot be executed now due to unavailable system resources. The message may be entered again later.
5. REFERENCES

Input Message(s):

   RST: ISTF

Output Message(s):

   DGN: ISTF

Input Appendix(es):

   APP: RANGES
DGN:IWGLI

Software Release: 5E15 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Requests that diagnostics be executed on an inter-working gateway link interface (IWGLI).

2. FORMAT

DGN:IWGLI=a-b-c-d[,PH=e[&f]][,RPT=[g]][,GROW][,RAW][,TLP][,UCL];

3. EXPLANATION OF MESSAGE

UCL = Execute and print all test failures unconditionally

a = Switch Module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

b = Inter-Working Gateway (IWG) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

c = Data Group (DG) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

d = Inter-Working Gateway Link Interface (IWGLI) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

e = The number of the phase to be run, or the lower limit of a range of phases.

f = The upper limit of a range of phases to be run.

g = The number of times the exercise is to be repeated (1-32766). If ‘g’ is not specified, the test will be repeated 32,767 times.

4. SYSTEM RESPONSE

NG = No good. The request has been denied. The message is valid but the request conflicts with current status.

PF = Printout follows. Followed by the DGN:IWGLI output message.

RL = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

Input Message(s):

ABT:IWGLI
STP:IWGLI
DGN:LDSF

Software Release: 5E14 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE
Diagnoses a local digital service function (LDSF) circuit to determine whether it is in satisfactory working order. The circuit is left out of service (OOS).

2. FORMAT
DGN:LDSF=a-b[,RAW][,UCL][,RPT[=c]][,GROW][,PH=d[&e]][,TLP];

3. EXPLANATION OF MESSAGE
GROW = Allow access to growth equipment.
RAW = Print raw test failure data.
TLP = Print the ordered pack list.
UCL = Unconditionally executes. DGN will continue past all non-fatal failures.
a = Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
b = LDSF number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
c = The number of times the test is to be repeated. If ‘c’ is not specified, the test will be repeated 32,767 times.
d = Number of the diagnostic phase(s) to be performed. If ‘d’ is specified as a single phase, only that phase will be performed. If ‘d’ is specified as a range, ‘d’ will be the first phase in that range to be performed.
e = Number of the last diagnostic phase in the range between and including ‘d’ and ‘e’ to be performed.

4. SYSTEM RESPONSE
NG = No good. The request has been denied. The message form is valid, but the request conflicts with current status.
PF = Printout follows. The request was accepted. Followed by the DGN:LDSF output message.

5. REFERENCES
Output Message(s):
DGN:LDSF
DGN:LDSU

Software Release: 5E14 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE
Diagnoses a local digital service unit - model 2; (LDSU2) board to determine whether it is in satisfactory working order. The service group is left out-of-service (OOS).

2. FORMAT
DGN:LDSU=a-b-c[,RAW][,UCL][,RPT=[d]][,GROW][,PH=e[&f]][,TLP];

3. EXPLANATION OF MESSAGE
GROW = Allow access to growth equipment.
RAW = Print raw test failure data.
TLP = Print the ordered pack list.
UCL = Unconditionally executes. DGN will continue past all non-fatal failures.
a = Switching module (SM) number.
b = Local digital service unit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
c = Service group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
d = The number of times the test is to be repeated. If ‘d’ is not specified, the test will be repeated 32,767 times.
e = Number of the diagnostic phase(s) to be performed. If ‘e’ is specified as a single phase, only that phase will be performed. If ‘e’ is specified as a range, ‘e’ will be the first phase in that range to be performed.
f = Number of the last diagnostic phase in the range between and including ‘e’ and ‘f’ to be performed.

4. SYSTEM RESPONSE
NG = No good. The request has been denied. The message form is valid, but the request conflicts with current status.
PF = Printout follows. The request was accepted. Followed by the DGN:LDSU output message.

5. REFERENCES
Output Message(s):
DGN: LDSU
RST: LDSU

Input Appendix(es):

APP: RANGES
DGN:LDSUCOM

Software Release: 5E14 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Requests that a local digital service unit common (LDSUCOM) board be diagnosed to determine whether it is in satisfactory working order.

2. FORMAT

DGN:LDSUCOM=a-b-c[,{RAW}[,UCL][,SVG][,RPT=[d]][,GROW][,PH=e[&f]][,TLP];

3. EXPLANATION OF MESSAGE

GROW = Allow access to growth equipment.
RAW = Print raw test failure data.
SVG = Run diagnostics on the entire service group, including the demand phases.
TLP = Print the ordered pack list.
UCL = Unconditionally execute and print all test failures.
a = Switching module number.
b = Local digital service unit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
c = Service group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
d = The number of times the test is to be repeated. If 'd' is not specified, the test will be repeated 32,767 times.
e = Number of the diagnostic phases to be performed. If 'e' is specified as a single phase, only that phase will be performed. If 'e' is specified as a range, 'e' will be the first phase in that range to be performed.
f = The last diagnostic phase in the range between and including 'e' and 'f' to be performed.

4. SYSTEM RESPONSE

NG = No good. The request has been denied. The message form is valid, but the request conflicts with current status.
PF = Printout follows. The request was accepted. Followed by the DGN:LDSUCOM output message.

5. REFERENCES

235-600-700 December 2003

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Output Message(s):
DGN : LDSUCOM

Input Appendix(es):
APP : RANGES
DGN:LI

Software Release: 5E14 and later
Command Group: CM
Application: 5
Type: Input

1. PURPOSE
Requests that the link interface (LI) in the specified office network and timing complex (ONTC) be diagnosed.

NOTE: This message is only valid for offices with communication module model 1 (CM1) hardware.

2. FORMAT
DGN:LI=a[,RAW][,UCL][,RPT[=b]][,PH=c[&d][,TLP][,HELPER=e];

3. EXPLANATION OF MESSAGE

GROW = Allows access to growth equipment.

RAW = Print raw test failure data.

TLP = Print the ordered suspected pack list if a test fails.

UCL = Print all test results unconditionally rather than just printing the first failing test.

a = LI side. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

b = Number of times the diagnostic is to be repeated (RPT) (default 32,767).

c = The number of the phase (PH) to be executed, or the lower limit in a range of phases.

d = Upper limit in a range of phases.

e = Specifies the foundation peripheral controller (FPC) side to be used as a 'helper' unit for the diagnostic. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual. If this option is not input, the standby FPC will be used.

4. SYSTEM RESPONSE

NG = No good. The request has been denied. The message syntax is valid, but the request could not be processed.

PF = Printout follows. Followed by the DGN:LI output message.

RL = Retry later. The request cannot be executed now.

5. REFERENCES

Input Message(s):

ABT:LI
STP:LI
Output Message(s):

DGN: LI

Input Appendix(es):

APP: CM-IM-REASON
APP: RANGES

Other Manual(s):
235-105-210  Routine Operations and Maintenance
235-105-220  Corrective Maintenance
DGN:LN

Software Release: 5E14 and later
Command Group: CCS
Application: 5
Type: Input

1. PURPOSE

Requests that the specified link nodes (LN) be diagnosed.

Four sequential system actions are performed in response to this input message.

A = The LN is removed from service following the rules for the RMV:LN input message.
B = If the resultant LN major state is outofservice (OOS), growth (GROW), offline (OFL), or unavailable (UNAV), an attempt is made to isolate the LN. For other major states, the diagnostic is aborted by the diagnostic monitor (DIAMON).
C = The specified (or default) diagnostic phases are run.
D = If the LN was in the active ring before the start of the diagnostics and was successfully isolated (in 2 above), an attempt is made at the conclusion of the diagnostic to include the LN back into the active ring. Otherwise the node is left in its original ring configuration state. The LN remains in the OOS, GROW, OFL, or UNAV state.

Note: The UCL and TLP parameters must not be used together as it may produce an incorrect TLP listing.

2. FORMAT

DGN:LNa=b:[[RPT=c][,RAW][,UCL]][:PH=d[&e][,CU=f][,TLP]];

3. EXPLANATION OF MESSAGE

CU = Helper Control Unit.
PH = This option indicates the phase or phases to be run in the diagnostic.
RAW = Print the diagnostic results of every phase. The default is to print the results of the first five failures of each failing phase.
RPT = This option allows for repetition of the diagnostics c number of times.
TLP = Execute the trouble locating procedure (TLP) at the conclusion of the diagnostic. The TLP generates a list of suspected faulty equipment.
UCL = Execute unconditionally. This option overrides early terminations but does not override a forced early termination.
a = Ring node group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
b = Member number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
c = Number of times the diagnostic is to be repeated (default is 1, maximum is 256).  
Note: This option does not override early termination. UCL should also be specified if the diagnostic is arranged to terminate early.

d = Phase number or lower limit of a range of phase numbers to be executed (default, all automatic phases).

e = Upper limit of a range of phase numbers to be executed.

f = (0 or 1) - Off-line CU required as a helper unit when demand phase 34 is specified for a DLN.  
NOTE: The helper CU must be out of service and all tests passed (ATP) before it can be used as a helper.

4. SYSTEM RESPONSE

PF = Printout follows. The DGN:LN output message follows.

5. REFERENCES

Input Message(s):

   CHG : SLK
   OP : DMQ
   RMV : LN

Output Message(s):

   DGN : LN
   OP : DMQ
   RMV : LN

Input Appendix(es):

   APP : RANGES

Other Manual(s): Signaling Service Feature  
235-190-120 Common Channel Signaling Services and Associated

MCC Display Page(s):

   118 (CNI RING STATUS PAGE)  
   1520 (RING NODE STATUS PAGE)
DGN:LUCHAN

Software Release: 5E14 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Requests that a line unit channel (LUCHAN) on a line unit channel board (LUCHBD) be removed and diagnosed to determine if it is in satisfactory working order. The channel will remain out of service (regardless of the diagnostic result) until a restore (RST) is entered.

2. FORMAT

DGN:LUCHAN=a-b-c-d-e[,RAW][,UCL][,RPT[=f]][,GROW][,PH=g[&h]][,TLP];

3. EXPLANATION OF MESSAGE

GROW = Allow access to growth equipment.

RAW = Print raw test failure results for each phase executed.

TLP = Print the ordered suspect pack list if a test fails.

UCL = Unconditionally execute and print all test failures rather than stopping after the first failure.

a = Switching module (SM) number.

b = Line unit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

c = Service group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

d = Channel board number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

e = Channel number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

f = The number of times the test is to be repeated. If ‘f’ is not specified, the test will be repeated 32,767 times.

g = Diagnostic phase(s) to be performed. If ‘g’ is specified as a single phase, only that phase will be performed. If ‘g’ is specified as a range, ‘g’ will be the first phase in that range to be performed.

h = The last diagnostic phase in the range between and including ‘g’ and ‘h’ to be performed.

4. SYSTEM RESPONSE

NG = No good. The request has been denied. The message form is valid, but the request conflicts with current status.

PF = Printout follows. The request was accepted. The DGN:LUCHAN output message follows after the
diagnostic is executed.

5. REFERENCES

Input Message(s):

   RMV: LUCHBD
   RST: LUCHAN
   RST: LUCHBD
   STP: LUCHAN

Input Appendix(es):

   APP: RANGES
DGN:LUCHBD

Software Release: 5E14 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Requests that a line unit channel board (LUCHBD) be removed and diagnosed to determine whether it is in satisfactory working order. All channel circuits and the board are removed from service and each is diagnosed. Failures are reported with a DGN:LUCHAN output message. All channels remain out of service (regardless of the diagnostic result) until a restore (RST) of the LUCHBD is entered.

2. FORMAT

DGN:LUCHBD=a-b-c-d[,RAW][,UCL][,RPT[=e]][,GROW][,PH=f[&g]][,TLP];

3. EXPLANATION OF MESSAGE

GROW = Allow access to growth equipment.

RAW = Print raw test failure results for each phase of the LUCHAN diagnostic executed on all eight channels.

TLP = Print the ordered suspect pack list if a test fails.

UCL = Unconditionally execute and print all test failures rather than stopping after the first test failure.

a = Switching module (SM) number.

b = Line unit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

c = Service group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

d = Channel board number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

e = The number of times the test is to be repeated. If ‘e’ is not specified, the test will be repeated 32,767 times.

f = Diagnostic phase(s) to be performed. If ‘f’ is specified as a single phase, only that phase will be performed. If ‘f’ is specified as a range, ‘f’ will be the first phase in that range to be performed.

g = The last diagnostic phase in the range between and including ‘f’ and ‘g’ to be performed.

4. SYSTEM RESPONSE

NG = No good. The request has been denied. The message form is valid, but the request conflicts with current status.

PF = Printout follows. The request was accepted. Followed by the DGN:LUCHBD output message.
5. REFERENCES

Input Message(s):

DGN: LUCHAN
RST: LUCHAN
RST: LUCHBD
STP: LUCHBD

Output Message(s):

DGN: LUCHBD

Input Appendix(es):

APP: RANGES
DGN: LUCOMC

Software Release: 5E14 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Requests that a line unit common control (LUCOMC) be diagnosed. The circuit will remain out-of-service (OOS) (regardless of the diagnostic's result) until a restore (RST) is requested.

2. FORMAT

DGN: LUCOMC=a-b-c[,RAW][,UCL][,SVG][,RPT=[d]][,GROW][,PH=[e&&f]][,TLP];

3. EXPLANATION OF MESSAGE

GROW = Allow access to growth equipment.

RAW = Print raw test results (all tests passed (ATP)/some tests failed (STF)) for each phase executed.

SVG = Run diagnostics, including the demand phases, on the entire service group.

TLP = Print the ordered suspect pack list if a test fails.

UCL = Unconditionally execute and print all test results requested rather than stopping on first failing phase.

a = Switching module number. Refer to the APP: RANGES appendix in the Appendixes section of the Input Messages manual.

b = Line unit number. Refer to the APP: RANGES appendix in the Appendixes section of the Input Messages manual.

c = Service group number. Refer to the APP: RANGES appendix in the Appendixes section of the Input Messages manual.

d = The number of times the test is to be repeated. If 'd' is not specified, the test will be repeated 32,767 times.

e = Diagnostic beginning phase to be performed. If 'e' is specified as a single phase, only that phase will be performed. If 'e' is specified in a range, 'e' will be the first phase in that range to be performed.

There are 5 phases associated with the LU1 line unit diagnostic and 7 phases associated with the LU2 line unit diagnostic. Phase 5 for LU1 and phase 7 for LU2 are demand-only phases. These phases are concerned with verifying the interface from the common controller to peripheral units (GDXACC, HLSC, CHANBD and GRID) for all-seems-well, service request, and power alarms. The phases should normally be run after replacing a defective controller or to verify the interface to the peripheral circuits.

For LU1 when one module controller/time slot interchanger (MCTSI) is OOS, phases 1 and 4 yield CATP; phase 3 yields no tests run (NTR). For LU2 when one MCTSI is OOS, phases 1 and 6 yield conditional all tests passed (CATP); phase 5 yields NTR.
The last diagnostic phase in the range between and including 'e' and 'f' to be performed.

4. SYSTEM RESPONSE

NG = No good. The request has been denied. The message form is valid, but the request conflicts with current status.

PF = Printout follows. The request was accepted. The DGN:LUCOMC output message follows when the diagnostic is executed.

5. REFERENCES

Input Message(s):

RMV: LUCOMC
RST: LUCOMC

Output Message(s):

DGN: LUCOMC

Input Appendix(es):

APP: RANGES
DGN:LUHLSC

**Software Release:** 5E14 and later  
**Command Group:** SM  
**Application:** 5  
**Type:** Input

1. **PURPOSE**

Requests that a line unit high service circuit (LUHLSC) be removed and diagnosed to determine if it is in satisfactory working order.

Note: = The LUHLSC will remain out of service (00S) until a restore (RST) is entered.

2. **FORMAT**

DGN:LUHLSC=a-b-c-d[,RAW][,UCL][,RPT[=e]][,GROW][,PH=f[&g]][,TLP];

3. **EXPLANATION OF MESSAGE**

**GROW** = Allow access to growth equipment.

**RAW** = Print raw test failure results for each phase executed.

**TLP** = Print the ordered suspect pack list if a test fails.

**UCL** = Unconditionally execute and print all test failures rather than stopping after the first test failure.

**a** = Switching module (SM) number.

**b** = Line unit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

**c** = Service group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

**d** = High-level service circuit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

**e** = The number of times the test is to be repeated. If 'e' is not specified, the test will be repeated 32,767 times.

**f** = Diagnostic phase(s) to be performed. If 'f' is specified as a single phase, only that phase will be performed. If 'f' is specified as a range, 'f' will be the first phase in that range to be performed.

**g** = The last diagnostic phase in the range between and including 'f' and 'g' to be performed.

4. **SYSTEM RESPONSE**

**NG** = No good. The request has been denied. The message form is valid, but the request conflicts with current status.

**PF** = Printout follows. The request was accepted. The DGN:LUHLSC output message follows after the diagnostic executes.
5. REFERENCES

Input Message(s):

RST: LUHLSC
STP: LUHLSC

Output Message(s):

DGN: LUHLSC

Input Appendix(es):

APP: RANGES
DGN:MA

Software Release: 5E14 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Requests that a metallic access (MA) board be diagnosed to determine whether it is in satisfactory working order.

2. FORMAT

DGN:MA=a-b-c-d[,RAW][,UCL][,RPT [=e] ][,GROW][,PH=f[&g]][,TLP];

3. EXPLANATION OF MESSAGE

GROW = Allow access to growth equipment.
RAW = Print raw test failure data.
TLP = Print the ordered pack list.
UCL = Unconditionally execute and print all test failures.
a = Switching module number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
b = Metallic service unit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
c = Service group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
d = Metallic access board number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
e = The number of times the test is to be repeated. If 'e' is not specified, the test will be repeated 32,767 times.
f = Number of the diagnostic phase(s) to be performed. If 'f' is specified as a single phase, only that phase will be performed. If 'f' is specified as a range, 'f' will be the first phase in that range to be performed.
g = The last diagnostic phase in the range between and including 'f' and 'g' to be performed.

4. SYSTEM RESPONSE

NG = No good. The request has been denied. The message form is valid, but the request conflicts with current status.
PF = Printout follows. The request was accepted. Followed by the DGN:MA output message.

5. REFERENCES
Output Message(s):

DGN : MA

Input Appendix(es):

APP : RANGES
1. PURPOSE
Requests that the metallic access bus (MAB) be diagnosed to determine whether it is in satisfactory working order.

2. FORMAT
DGN:MAB=a-b-c-d[,RAW][,UCL][,RPT=[e]][,GROW][,PH=[f][&g]][,TLP];

3. EXPLANATION OF MESSAGE
GROW = Allow access to growth equipment.
RAW = Print data from raw data test failure.
TLP = Print the ordered pack list.
UCL = Unconditionally execute.
a = Switching module number.
b = Unit number.
c = Service group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
d = Board number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
e = The number of times the test is to be repeated. If the number is not specified, the test will be repeated 32,767 times.
f = Diagnostic phase(s) to be performed, or the lower limit of a range of phases.
g = Upper limit of a range of diagnostic phases to be performed.

4. SYSTEM RESPONSE
NG = No good. The request has been denied. The message form is valid, but the request conflicts with current status.
PFF = Printout follows. Followed by the DGN:MAB output message.

5. REFERENCES
Output Message(s):
DGN:MAB
Input Appendix(es):

APP : RANGES

Other Manual(s):
235-105-220  Corrective Maintenance
DGN:MCTSI
  Software Release: 5E14 and later
  Command Group: SM
  Application: 5
  Type: Input

1. PURPOSE

Removes and diagnoses a module control/time-slot interchange unit (MCTSI) to determine if it is in satisfactory
working order. The MCTSI will remain out of service (regardless of the result of the diagnostic) until a restore (RST)
is entered.

2. FORMAT

DGN:MCTSI=a-b[,RAW][,UCL][,RPT[=c]][,GROW] [,PH=d[&e]][,RETRO][,TLP];

3. EXPLANATION OF MESSAGE

GROW = Allow access to growth equipment.

RAW = Print raw test failure results for each phase executed.

RETRO = Conditionally execute only the diagnostic phase or range of phases which are designated for use
in a retrofit situation. This option and the PH (demand phase) option are redundant and not allowed
on the same input message line. Compatible with all other options.

TLP = Print the ordered suspect pack list if a test fails.

UCL = Unconditionally execute and print all test failures rather than stopping after the first test failures.

a = Switching module (SM) number.

b = Module control unit/side number. Refer to the APP:RANGES appendix in the Appendixes section
of the Input Messages manual.

c = The number of times the test is to be repeated. If ‘c’ is not specified, the test will be repeated
32,767 times.

d = Number of the diagnostic phase(s) to be performed. If ‘d’ is specified as a single phase, only that
phase will be performed. If ‘d’ is specified as a range, ‘d’ will be the first phase in that range to be
performed.

Special demand phases may be requested also. Valid value(s):

Phase 7 = Complete memory tests. Phase 6 (which runs as a part of the MCTSI diagnostic)
does a quick test of memory system. Phase 7 does a more exhaustive test which
takes several minutes to run. This phase should be requested when a MCTSI is
removed from service due to MEM SYSTEM interrupts.

Phase 90 = Tests TN874 board and is for use only in retrofit situations where module
controller time slot interchange unit model 2 (MCTU2) hardware is not involved.
Can be run on demand or by specifying the RETRO option on the input message
line. The circuits on the board are tested and a checksum test over all EPROM is
done using the stored checksum in EPROM. The final test compares the stored
microcode number with that in the active MCTSI side. This test will fail if the
microcode number is the same as that in the active side. For retrofit situations involving MCTU2 hardware a range of phases need to be executed to perform retrofit testing requirements. This diagnostic phase selection should be initially keyed by the RETRO option.

\[ e \] = The last diagnostic phase in the range between and including ‘a’ and ‘e’ to be performed.

4. SYSTEM RESPONSE

NG = No good. The request has been denied. The message form is valid, but the request conflicts with current status.

PF = Printout follows. The request was accepted. The DGN:MCTSI output message follows when the diagnostic is executed. Use the OP:SM-DMQUE input message to determine if the diagnostic request is waiting in the diagnostic control program's queue.

5. REFERENCES

Input Message(s):

RST:MCTSI
STP:MCTSI
SW:MCTSI

Output Message(s):

DGN:MCTSI

Input Appendix(es):

APP:RANGES

Other Manual(s):

235-105-220 Corrective Maintenance
DGN:MHD

Software Release: 5E14 and later
Command Group: AM
Application: 5,3B
Type: Input

1. PURPOSE

Diagnoses the specified moving head disk (MHD).

Note: The disk file controller (DFC) must be in service before the MHD can be diagnosed.

2. FORMAT

DGN:MHD=a[:[,RPT=b][[,RAW][[,UCL][[,REX|,DEX]][,PH=c[&&d]][,TLP][[,CONT]];]

3. EXPLANATION OF MESSAGE

CONT = Includes only the specified unit (controller). Units attached to the specified unit will not be included. If the specified unit has no attached units, CONT is ignored.

DEX = Runs demand exercise phases in addition to routine exercise and normal (automatic) phases. This option will not allow special demand exercise phases which require manual interaction to be run even if the range of phases specified includes such a phase.

RAW = Prints the diagnostic results of every phase. The default is the first five failures of each failing phase.

REX = Runs routine exercise phases in addition to the normal (automatic) phases. This option will not allow demand exercise phases to be run even if the range of phases specified includes such a phase.

TLP = Executes the trouble locating procedure (TLP) at the conclusion of the diagnostic. This process generates a list of suspected faulty equipment.
   Note: The TLP and UCL parameters cannot be used together, as additional test results may adversely affect the TLP listing.

UCL = Unconditional execution.
   Note: This option does not override a forced early termination.

a = Member number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

b = Number of times the diagnostic is repeated. The maximum is 256. The default is one.
   Note: This option does not override early terminations. UCL should also be specified if the diagnostic terminates.

c = Number of the first phase to be executed.

d = Number of the last phase to be executed.
4. SYSTEM RESPONSE

`PF` = Printout follows. Followed by the DGN:MHD output message.

5. REFERENCES

Input Message(s):

```
OP : DMQ
RMV : MHD
RST : MHD
STOP : DMQ
STP : DMQ
```

Output Message(s):

```
ANALY : TLPFILE
DGN : MHD
OP : DMQ
```

Input Appendix(es):

```
APP : RANGES
```

Other Manual(s):

235-105-220 *Corrective Maintenance*

MCC Display Page(s):

*(COMMON PROCESSOR DISPLAY)*
1. PURPOSE
Requests that the message interface (MI) in the specified office network and timing complex (ONTC) be diagnosed.

2. FORMAT
DGN:MI=a[,RAW][,UCL][,RPT[]={b}][,PH=c[&d]][,TLP][,HELPER=e];

3. EXPLANATION OF MESSAGE
- **RAW** = Print the ordered suspected pack list if a test fails.
- **TLP** = Print the ordered suspected pack list if a test fails.
- **UCL** = Print all test results unconditionally rather than just printing the first failing test.
- **a** = MI side. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
- **b** = Number of times the diagnostic is to be repeated (RPT) (default 32,767).
- **c** = The number of diagnostic phase (PH) to be performed, or the lower limit in a range of phases.
- **d** = Upper limit in a range of phases.
- **e** = Specifies the foundation peripheral controller (FPC) side to be used as a 'helper' unit for the diagnostic. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual. If this option is not input, the standby FPC will be used.

4. SYSTEM RESPONSE
- **NG** = No good. The request has been denied. The message syntax is valid, but the request could not be processed.
- **PF** = Printout follows. Followed by the DGN:MI output message.
- **RL** = Retry later. The request cannot be executed now.

5. REFERENCES
Input Message(s):
- ABT:MI
- STP:MI

Output Message(s):
1. PURPOSE

Requests that the message interface (MI) in the specified office network and timing complex (ONTC) be diagnosed. This command is not applicable for offices having CM3 vintage communication modules.

2. FORMAT

DGN:MI=a[,RAW][][,UCL][,RPT[]=b][][,PH=c][&d][][,TLP][][,HELPER=e];

3. EXPLANATION OF MESSAGE

RAW = Print the ordered suspected pack list if a test fails.
TLP = Print the ordered suspected pack list if a test fails.
UCL = Print all test results unconditionally rather than just printing the first failing test.
a = MI side. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
b = Number of times the diagnostic is to be repeated (RPT) (default 32,767).
c = The number of diagnostic phase (PH) to be performed, or the lower limit in a range of phases.
d = Upper limit in a range of phases.
e = Specifies the foundation peripheral controller (FPC) side to be used as a 'helper' unit for the diagnostic. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual. If this option is not input, the standby FPC will be used.

4. SYSTEM RESPONSE

NG = No good. The request has been denied. The message syntax is valid, but the request could not be processed.
PF = Printout follows. Followed by the DGN:MI output message.
RL = Retry later. The request cannot be executed now.

5. REFERENCES

Input Message(s):

ABT:MI
STP:MI
Output Message(s):

DGN : MI

Input Appendix(es):

APP : CM–IM–REASON
APP : RANGES

Other Manual(s):
235-105-210   Routine Operations and Maintenance
235-105-220   Corrective Maintenance
DGN:MICU

Software Release: 5E14 and later
Command Group: CM
Application: 5
Type: Input

1. PURPOSE
Requests that a message interface control unit (MICU) subunit of the specified office network and timing complex (ONTC) be diagnosed.

2. FORMAT
DGN:MICU=a[,RAW][,UCL][,RPT[=b]][,TLP];

3. EXPLANATION OF MESSAGE
RAW = Print raw test failure data.
TLP = Print the ordered suspected pack list if a test fails.
UCL = Print all test results unconditionally rather than just printing the first failing test.
a = MICU side. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
b = Number of times the diagnostic is to be repeated (RPT) (default 32,767).

4. SYSTEM RESPONSE
NG = No good. The request has been denied. The message syntax is valid, but the request could not be processed.
PF = Printout follows. Followed by the DGN:MI output message.
RL = Retry later. The request cannot be executed now.

5. REFERENCES
Input Message(s):
ABT:MICU
DGN:LI
DGN:MI
DGN:NC
STP:MICU

Output Message(s):
DGN:MI

Input Appendix(es):
DGN:MMP

Software Release: 5E14 and later
Command Group: CM
Application: 5
Type: Input

1. PURPOSE

Requests that a module message processor (MMP) be diagnosed to determine whether it is in satisfactory working order.

Note: This command is not applicable to offices having CM3 vintage communications modules.

2. FORMAT

DGN:MMP=a-b[,RAW][,UCL][,RPT=[c]][,PH=[d&[e]]][,TLP][,GROW];

3. EXPLANATION OF MESSAGE

GROW = Run diagnostics on an MMP in the GROW or SGRO state. If the MMP is GROW or SGRO, this option must be input to perform the diagnostic. If a subpart (for example, synchronous data link controller (SDLC)) of the MMP is in the GROW or SGRO state, the GROW option must be used to diagnose those subpieces. Without the GROW option, only the parts that are operational (OPER) will be diagnosed.

RAW = Print data from raw data test failure.

TLP = Print the ordered pack list.

UCL = Unconditionally execute.

a = Message switch side. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

b = MMP number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

c = The number of times the test is to be repeated. If the number is not specified, the test will be repeated 32,767 times.

d = Diagnostic phase(s) to be performed, or the lower limit of a range of phases.

e = Upper limit of a range of diagnostic phases to be performed.

4. SYSTEM RESPONSE

NG = No good. The request has been denied. The message form is valid, but the request conflicts with current status.

PF = Printout follows. Followed by a DGN:MMP output message.

RL = Retry later. The request cannot be executed now.
5. REFERENCES

Input Message(s):

   ABT:MMP
   DGN:MSGS
   OP:CFGSTAT
   RST:MMP
   STP:MMP

Output Message(s):

   DGN:MMP
   RST:MMP

Input Appendix(es):

   APP:RANGES

Other Manual(s):

235-105-220  Corrective Maintenance
DGN:MSCU

**Software Release:** 5E14 and later

**Command Group:** CM

**Application:** 5

**Type:** Input

1. **PURPOSE**

Diagnoses the specified message switch control unit (MSCU).

Note: This command is not applicable to offices having CM3 vintage communications modules.

2. **FORMAT**

DGN:MSCU=a[,RAW][,UCL][,RPT[=b]][,PH=c[&d]][,TLP][,GROW];

3. **EXPLANATION OF MESSAGE**

- **GROW** = If the unit or one of its subunits is in the GROW or special grow (SGROW) equipage state, this option must be input for a diagnostic to execute on that unit or subunit. If the unit is not in a growth state, the option will have no effect.

- **RAW** = Prints the raw test results for each phase that is executed.

- **TLP** = Execute the trouble location procedure at the conclusion of the diagnostic. This process prints an ordered suspect pack list if a test fails.

- **UCL** = Unconditionally execute and print all test results rather than stopping on the first failing phase.

- **a** = Message switch (MSGS) side.

- **b** = Number of times the diagnostic is executed. If 'b' is not specified, the test will be repeated 32,767 times.

- **c** = Number of diagnostic phase to be executed, or a lower limit of a range of phases.

- **d** = Upper limit of a range of numbers if diagnostic phases.

4. **SYSTEM RESPONSE**

- **NG** = No good. The request has been denied. The message syntax is valid, but the request could not be processed. Refer to the APP:CM-IM-REASON appendix in the Appendixes section of the Input Messages manual for a list of possible reasons for denying the request.

- **PF** = Printout follows.

- **RL** = Retry later. The request cannot be executed now because the communication module (CM) deferred maintenance queue (DMQ) is full.

5. **REFERENCES**

Input Message(s):
OP: CFGSTAT
OP: DMQ

Output Message(s):
DGN: MSCU
OP: DMQ-CM

Input Appendix(es):
APP: CM-IM-REASON
DGN:MSGS-A

Software Release: 5E14 only
Command Group: CM
Application: 5
Type: Input

1. PURPOSE

Requests diagnostics on a message switch (MSGS) to determine if it is in satisfactory working order.

2. FORMAT

DGN:MSGS=a[,RAW][,UCL][,RPT[]=b][PH=c[&d]][,TLP];

3. EXPLANATION OF MESSAGE

RAW = Print data from raw data test failure.
TLP = Print the ordered pack list.
UCL = Execute unconditionally.
a = MSGS number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
b = The number of times the test is to be repeated. If 'b' is not specified, the test will be repeated 32,767 times.
c = Diagnostic phase to be performed or lower limit in a range of phases.
d = Upper limit in a range of phases.

4. SYSTEM RESPONSE

NG = No good. The message form is valid, but the request conflicts with current status.
PF = Printout follows.
RL = Retry later. The request cannot be executed now.

5. REFERENCES

Input Message(s):

ABT:MSGS
OP:DMQ
STP:MSGS

Output Message(s):

DGN:MSGS
DGN:CMP
Input Appendix(es):

APP : RANGES

Other Manual(s):
235-105-210  Routine Operations and Maintenance
235-105-220  Corrective Maintenance

MCC Display Page(s):

1241, 1251 (MSGS-COMMUNITIES)
1240, 1250 (MSGS STATUS)
1. PURPOSE
Requests diagnostics on a message switch (MSGS) to determine if it is in satisfactory working order.

2. FORMAT
DGN:MSGS=a[,RAW][,UCL][,RPT [=b]][PH=c[&d]][,TLP];

3. EXPLANATION OF MESSAGE

RAW = Print data from raw data test failure.
TLP = Print the ordered pack list.
UCL = Execute unconditionally.
a = MSGS number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
b = The number of times the test is to be repeated. If 'b' is not specified, the test will be repeated 32,767 times.
c = Diagnostic phase to be performed or lower limit in a range of phases.
d = Upper limit in a range of phases.

4. SYSTEM RESPONSE
NG = No good. The message form is valid, but the request conflicts with current status.
PF = Printout follows.
RL = Retry later. The request cannot be executed now.

5. REFERENCES
Input Message(s):
ABT:MSGS
OP:DMQ
STP:MSGS

Output Message(s):
DGN:MSGS
Input Appendix(es):

APP : RANGES

Other Manual(s):
235-105-210  Routine Operations and Maintenance
235-105-220  Corrective Maintenance

MCC Display Page(s):
1240,1250  MSGS STATUS
DGN:MSUCOM

**Software Release:** 5E14 and later  
**Command Group:** SM  
**Application:** 5  
**Type:** Input

### 1. PURPOSE

Requests that a metallic service unit common (MSUCOM) board be diagnosed to determine whether it is in satisfactory working order.

### 2. FORMAT

```
DGN:MSUCOM=a-b-c[,RAW][,UCL][,SVG][,RPT=[d]][,GROW][,PH=e[&f]][,TLP];
```

### 3. EXPLANATION OF MESSAGE

- **GROW** = Allow access to growth equipment.  
- **RAW** = Print raw test failure data.  
- **SVG** = Run diagnostics on the entire service group, including the demand phases.  
- **TLP** = Print the ordered pack list.  
- **UCL** = Unconditionally execute and print all test failures.  

**a** = Switching module number.  
**b** = Metallic service unit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.  
**c** = Service group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.  
**d** = The number of times the test is to be repeated. If ‘d’ is not specified, the test will be repeated 32,767 times.  
**e** = Number of the diagnostic phases to be performed. If ‘e’ is specified as a single phase, only that phase will be performed. If ‘e’ is specified as a range, ‘e’ will be the first phase in that range to be performed.  
**f** = The last diagnostic phase in the range between and including ‘e’ and ‘f’ to be performed.

### 4. SYSTEM RESPONSE

- **NG** = No good. The request has been denied. The message form is valid, but the request conflicts with current status.  
- **PF** = Printout follows. The request was accepted. Followed by the DGN:MSUCOM output message.

### 5. REFERENCES

235-600-700 December 2003

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Output Message(s):

DGN: MSUCOM

Input Appendix(es):

APP: RANGES
DGN:MT

Software Release: 5E14 and later
Command Group: AM
Application: 5,3B
Type: Input

1. PURPOSE

Diagnoses the specified magnetic tape (MT).

Note: The disk file controller (DFC) must be in service before the MT can be diagnosed.

2. FORMAT

DGN:MTa[:[,RPT=b][,RAW][,UCL][,REX|,DEX]][:DATA[,PH=c[&d]][,TLP][,CONT]];

3. EXPLANATION OF MESSAGE

CONT = Includes only the specified unit controller (CONT). Units attached to the specified unit are not to be included. If the specified unit has no attached units, CONT is ignored.

DEX = Runs demand exercise (DEX) phases in addition to REX and normal (automatic) phases. This option does not allow special DEX phases that require user interaction to run even if the range of phases specified includes such a phase.

RAW = Prints the diagnostic results of every phase. The default is the first five failures of each failing phase.

REX = Runs routine exercise (REX) phases in addition to the normal (automatic) phases. This option does not allow demand exercise phases to be run even if the range of phases specified includes such a phase.

TLP = Executes the trouble locating procedure (TLP) at the conclusion of the diagnostic. This process generates a list of suspected faulty equipment.

Note: The TLP and UCL parameters cannot be used together, because additional test results may adversely affect the TLP listing.

UCL = Unconditional (UCL) execution.

Note: This option does not override a forced early termination.

a = Member number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

b = Number of times the diagnostic is repeated. The maximum is 256. The default is one.

Note: This option does not override early terminations. UCL should also be specified if the diagnostic terminates.

c = Number of the first phase to be executed.

d = Number of the last phase to be executed.
4. SYSTEM RESPONSE

PF = Printout follows. Followed by the DGN:MT output message.

RL = Retry later. The system is in an overload condition.

?I = General syntax error, followed by the parameter position. May also include:
   - EXTRA KEYWORD = Duplicate or extraneous keywords were input.
   - INVALID KEYWORD = The keyword in the stated parameter position is not a valid keyword.
   - MISSING DAT = Data required for a keyword in the stated parameter block was not found.
   - MISSING KEYWORD = A required keyword is missing from the input. Unit to diagnose must be specified.
   - RANGE ERROR = Input is out of the valid range.

?D = General syntax error in the data field, followed by the parameter position. Valid value(s):
   - EXTRA KEYWORD = Duplicate or extraneous keywords were input.
   - INCONSISTENT KEYWORD = The combination of keywords is not a valid combination.
   - INVALID DATA = Not a valid value for the phase option.
   - INVALID KEYWORD = The keyword in the stated parameter position is not a valid keyword.

?E = Input error of undetermined type.

5. REFERENCES

Input Message(s):

   OP: DMQ
   RMV: MT
   RST: MT

Output Message(s):

   ANALY: TLFFILE
   DGN: MT
   OP: DMQ

Input Appendix(es):

   APP: RANGES

Other Manual(s):

   235-105-210  Routine Operations and Maintenance
   235-105-220  Corrective Maintenance

MCC Display Page(s):

   (COMMON PROCESSOR DISPLAY)
DGN:MTB

Software Release: 5E14 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Requests that a metallic access test bus (MTB) be diagnosed to determine whether it is in satisfactory working order.

2. FORMAT

DGN:MTB=a-b-c-d-e[,RAW][,UCL][,RPT[=f]][,GROW][,PH=g[&h]][,TLP];

3. EXPLANATION OF MESSAGE

GROW = Allow access to growth equipment.
RAW = Print raw test failure data.
TLP = Print the ordered pack list.
UCL = Unconditionally execute and print all test failures.
a = Switching module number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
b = Metallic service unit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
c = Service group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
d = Metallic access board number.
e = Metallic access test bus number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
f = The number of times the test is to be repeated. If ‘f’ is not specified, the test will be repeated 32,767 times.
g = Number of the diagnostic phase(s) to be performed. If ‘g’ is specified as a single phase, only that phase will be performed. If ‘g’ is specified as a range, ‘g’ will be the first phase in that range to be performed.
h = The last diagnostic phase in the range between and including ‘g’ and ‘h’ to be performed.

4. SYSTEM RESPONSE

NG = No good. The request has been denied. The message form is valid, but the request conflicts with current status.
PF = Printout follows. The request was accepted. Followed by the DGN:MTB output message.

5. REFERENCES

Output Message(s):

DGN: MTB

Input Appendix(es):

APP: RANGES

MCC Display Page(s):

1135/1145 (MSU MA STATUS)
DGN:MTC

Software Release: 5E14 and later
Command Group: AM
Application: 5,3B
Type: Input

1. PURPOSE
Diagnoses the specified magnetic tape controller (MTC).

Note: The input/output processor (IOP) must be in service before the MTC can be diagnosed.

2. FORMAT

DGN:MTC=a[[:[,]RPT=b[[,]RAW][[,]UCL][[,]REX[,DEX]][,PH=c[&d]][,TLP][[,]CONT][,MT=e];

3. EXPLANATION OF MESSAGE

CONT = Includes only the specified unit (controller). Units attached to the specified unit will not be included. If the specified unit has no attached units, CONT is ignored.

DEX = Runs demand exercise phases in addition to routine exercise and normal (automatic) phases. This option will not allow special demand exercise phases which require manual interaction to be run even if the range of phases specified includes such a phase.

RAW = Prints the diagnostic results of every phase. The default is the first five failures of each failing phase.

REX = Runs routine exercise phases in addition to the normal (automatic) phases. This option will not allow demand exercise phases to be run even if the range of phases specified includes such a phase.

TLP = Executes the trouble locating procedure (TLP) at the conclusion of the diagnostic. This process generates a list of suspected faulty equipment.

Note: It is not recommended that the TLP and UCL parameters be specified together, as it may produce an improper TLP listing.

UCL = Unconditional execution.

Note: This option does not override a forced early termination.

a = Member number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

b = Number of times the diagnostic is to be repeated. The maximum is 256. The default is one.

Note: This option does not override early terminations. UCL should also be specified if the diagnostic terminates.

c = Specifies the number of the first phase to be executed.

d = Specifies the last phase to be executed.
Note: Before phase 5 is executed, a diagnostic test tape with a write ring must be mounted on the specified MT.

\[ e \] = Member number of the magnetic tape device that is to be used as a helper unit (0-255). When a helper unit is not required, the specified helper unit is ignored. When a helper unit is required but the specified helper unit is inappropriate or unavailable, the helper unit dependent tests are skipped. Member number of the magnetic tape (MT) device helper unit is required when demand phase 5 is executed.

4. SYSTEM RESPONSE

\[ PF \] = Printout follows. Followed by the DGN:MT output message.

5. REFERENCES

Input Message(s):

\[ OP : DMQ \]
\[ RMV : MTC \]
\[ RST : MTC \]
\[ STOP : DMQ \]
\[ STP : DMQ \]

Output Message(s):

\[ ANALY : TLPFILE \]
\[ DGN : MTC \]
\[ OP : DMQ-CM \]
\[ OP : DMQ-SM \]

Input Appendix(es):

\[ APP : RANGES \]

Other Manual(s):

235-105-220 Corrective Maintenance
DGN:MTIB

Software Release: 5E14 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE
Requests that the metallic test interconnect bus (MTIB) be diagnosed to determine whether it is in satisfactory working order.

2. FORMAT
DGN:MTIB=a[,RAW][,UCL][,RPT[=b]][,GROW][,PH=c[&d]][,TLP];

3. EXPLANATION OF MESSAGE
GROW = Allow access to growth equipment.
RAW = Print data from raw data test failure.
TLP = Print the ordered pack list.
UCL = Unconditionally execute.
a = MTIB number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
b = Repeat the test 'b' times. If 'b' is not specified, the test will be repeated 32,767 times.
c = Number of the diagnostic phase(s) to be performed or low end of range of diagnostic phases.
d = High end of diagnostics phases to be performed.

4. SYSTEM RESPONSE
NG = No good. The request has been denied. The message form is valid, but the request conflicts with current status.
PF = Printout follows. The request was accepted. Followed by the DGN:MTIB output message.

5. REFERENCES
Output Message(s):
DGN:MTIB

Input Appendix(es):
APP: RANGES
DGN:MTIBAX
Software Release: 5E14 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE
Requests that the metallic test interconnect bus access (MTIBAX) be diagnosed to determine whether it is in satisfactory working order.

2. FORMAT
DGN:MTIBAX=a-b-c-d[,RAW][,UCL][,RPT[=e]][,GROW][,PH=f[&g]][,TLP];

3. EXPLANATION OF MESSAGE
GROW = Allow access to growth equipment.
RAW = Print data from raw data test failure.
TLP = Print the ordered pack list.
UCL = Unconditionally execute.
a = Switching module number.
b = Unit number.
c = Service group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
d = Board number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
e = Repeat the test 'e' times. If 'e' is not specified, the test will be repeated 32,767 times.
f = Diagnostic phase to be performed or low end of range of diagnostic phases.
g = High end of diagnostic phases to be performed.

4. SYSTEM RESPONSE
NG = No good. The request has been denied. The message form is valid, but the request conflicts with current status.
PFP = Printout follows. The request was accepted. Followed by the DGN:MTIBAX output message.

5. REFERENCES
Output Message(s):
DGN:MTIBAX
Input Appendix(es):

APP : RANGES
DGN:MTTYC

Software Release: 5E14 and later
Command Group: AM
Application: 5,3B
Type: Input

1. PURPOSE

Diagnoses the specified maintenance teletypewriter controller (MTTYC).

Note: The input/output processor (IOP) must be in service before the MTTYC can be diagnosed.

2. FORMAT

DGN:MTTYC=a[{{,RPT=b}[,RAW][,UCL][,REX[,DEX]][,PH=c[&d]][,TLP][,CONT];

3. EXPLANATION OF MESSAGE

CONT = Includes only the specified unit (controller). Units attached to the specified unit will not be included. If the specified unit has no attached units, CONT is ignored.

DEX = Runs demand exercise phases in addition to routine exercise and normal (automatic) phases. This option will not allow special demand exercise phases which require user interaction to be run even if the range of phases specified includes such a phase.

RAW = Prints the diagnostic results of every phase. The default is the first five failures of each failing phase.

REX = Runs routine exercise phases in addition to the normal (automatic) phases. This option will not allow demand exercise phases to be run even if the range of phases specified includes such a phase.

TLP = Executes the trouble locating procedure (TLP) at the conclusion of the diagnostic. This process generates a list of suspected faulty equipment.

Note: The TLP and UCL parameters should not be used together, as additional test results may adversely affect the TLP listing.

Note: This option does not override a forced early termination.

UCL = Unconditional execution.

a = Member number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

b = Number of times the diagnostic is repeated. The maximum is 256. The default is one.

Note: This option does not override early terminations. UCL should also be specified if the diagnostic terminates.

c = Specifies the first phase to be executed.

d = Specifies the last phase to be entered.
4. SYSTEM RESPONSE

PF = Printout follows. Followed by the DGN:MTTYC output message.

5. REFERENCES

Input Message(s):

OP:DMQ
RMV:MTTYC
RST:MTTYC
STOP:DMQ
STP:DMQ

Output Message(s):

ANALY:TLPFILE
DGN:MTTYC
OP:DMQ-CM
OP:DMQ-SM

Input Appendix(es):

APP:RANGES

Other Manual(s):
235-105-220 Corrective Maintenance

MCC Display Page(s):

(COMMON PROCESSOR DISPLAY)
DGN:NC-A

Software Release: 5E14 only
Command Group: CM
Application: 5
Type: Input

1. PURPOSE

Requests that the network clock (NC) in the specified office network and timing complex (ONTC) be diagnosed.

2. FORMAT

DGN:NC=a[,RAW][,UCL][,RPT=[b]][,PH=c[&d]][,TLP][,HELPER=e];

3. EXPLANATION OF MESSAGE

RAW = Print raw test failure data.
TLP = Print the ordered suspected pack list if a test fails.
UCL = Print all test results unconditionally rather than just printing the first failing test.
a = NC side. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
b = Number of times the diagnostic is to be repeated (RPT) (default 32,767).
c = The number of the phase (PH) to be performed, or the lower limit in a range of phases.
d = Upper limit in a range of phases.
e = The number of the foundation peripheral controller (FPC) side to be used as a 'helper' unit for the diagnostic. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual. If this option is not input, the standby FPC will be used.

4. SYSTEM RESPONSE

NG = No good. The request has been denied. The message syntax is valid, but the request could not be processed.
PF = Printout follows. Followed by the DGN:NC output message.
RL = Retry later. The request cannot be executed now.

5. REFERENCES

Input Message(s):

ABT:NC
STP:NC

Output Message(s):
DGN: NC

Input Appendix(es):

APP: CM–IM–REASON
APP: RANGES

Other Manual(s):
235-105-210  Routine Operations and Maintenance
235-105-220  Corrective Maintenance
DGN:NC-B

Software Release: 5E15 and later
Command Group: CM
Application: 5
Type: Input

1. PURPOSE

Requests that the network clock (NC) in the specified office network and timing complex (ONTC) be diagnosed. This command is not applicable for offices having CM3 vintage communication modules.

2. FORMAT

DGN:NC=a[,RAW][,UCL][,RPT [=b]][,PH=c[&d]][,TLP][,HELPER=e];

3. EXPLANATION OF MESSAGE

RAW = Print raw test failure data.
TLP = Print the ordered suspected pack list if a test fails.
UCL = Print all test results unconditionally rather than just printing the first failing test.
a = NC side. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
b = Number of times the diagnostic is to be repeated (RPT) (default 32,767).
c = The number of the phase (PH) to be performed, or the lower limit in a range of phases.
d = Upper limit in a range of phases.
e = The number of the foundation peripheral controller (FPC) side to be used as a 'helper' unit for the diagnostic. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual. If this option is not input, the standby FPC will be used.

4. SYSTEM RESPONSE

NG = No good. The request has been denied. The message syntax is valid, but the request could not be processed.
PF = Printout follows. Followed by the DGN:NC output message.
RL = Retry later. The request cannot be executed now.

5. REFERENCES

Input Message(s):
ABT:NC
STP:NC
Output Message(s): 

DGN : NC

Input Appendix(es):

APP : CM–IM–REASON
APP : RANGES

Other Manual(s):
235-105-210    Routine Operations and Maintenance
235-105-220    Corrective Maintenance
DGN:NLI

Software Release: 5E14 and later
Command Group: CM
Application: 5
Type: Input

1. PURPOSE

Requests diagnosis of a specific network link interface (NLI) in a switching module (SM) on a specified office network and timing complex (ONTC) side, to determine if it is in satisfactory working order. Completion of this request leaves the unit in the out-of-service (OOS) state.

NOTE: If the unit is not OOS, the system first removes the unit conditionally.

2. FORMAT

DGN:NLI=a-b-c[,RAW][,UCL][,RPT=[d]][,PH={e|e&&f}][,TLP][,GROW];

3. EXPLANATION OF MESSAGE

GROW = Run the diagnostic on an NLI in the GROW state, or in an SM in the special grow (SGRO) state. If the NLI is GROW or the SM is in the SGRO equipage state, this option must be input to perform the diagnostic.

RAW = Print data from raw data test failure.

RPT = Repeat the diagnostic 'd' times.

TLP = Executes the trouble location procedure at the conclusion of the diagnostic. This process generates a list of suspected faulty circuit packs.

UCL = Unconditionally execute and print all test failures rather than printing only the first failure and stopping.

a = SM number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

b = NLI number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

c = ONTC side number.

d = The number of times the diagnostic is to be repeated. If 'd' is not specified, the test is repeated 32,767 times.

e = Number of the diagnostic phase (PH) to be executed. If 'e' is specified as a single phase, only that phase will be executed. If 'e' is specified as a range it is the first phase in that range to be executed.

f = The last phase of the diagnostic in the range between 'e' and including 'f' to be executed.

4. SYSTEM RESPONSE

NG = No good. The request has been denied. The message syntax is valid, but the request could not be processed. Refer to the APP:CM-IM-REASON appendix in the Appendixes section of the Input Messages manual.
Messages manual for a list of reasons for denying the request.

PF = Printout follows.

RL = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

Input Message(s):

ABT:NLI
EX:NLI
OP:DMQ-CM-SM
RMV:NLI
RST:NLI
STP:NLI

Output Message(s):

DGN:NLI
OP:DMQ-CM
OP:DMQ-SM
RST:NLI

Input Appendix(es):

APP:CM-IM-REASON

Other Manual(s):

235-105-110 System Maintenance Requirements and Tools
235-105-220 Corrective Maintenance Procedures
235-105-250 System Recovery Procedures

MCC Display Page(s):

1190 (MCTSI)
1200 (DLI/NLI)
DGN:OFI

**Software Release:** 5E16(1) and later  
**Command Group:** SM  
**Application:** 5  
**Type:** Input

1. **PURPOSE**

Requests that diagnostics be executed on an optical facility interface (OFI). This circuit remains out-of-service (OOS), and the ports are denied service, regardless of the result of the diagnostic, until a restore is requested.

2. **FORMAT**

```
DGN:OFI=a-b-c-d[,PH=e[&f]][,RPT~[=g]][,GROW][,RAW][,TLP][,UCL];
```

3. **EXPLANATION OF MESSAGE**

- **GROW** = Allows access to growth equipment.
- **RAW** = Print data from raw data test failure.
- **TLP** = Print the ordered pack list if a test fails.
- **UCL** = Execute and print all test failures unconditionally rather than stopping after the first test failure.

- **a** = Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
- **b** = Optical interface unit (OIU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
- **c** = Protection group (PG) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
- **d** = Side number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
- **e** = Start phase of the range of diagnostic phases to be performed.
- **f** = End phase of the range of diagnostic phases to be performed.
- **g** = The number of times the test is to be repeated. The maximum is 32,000 times.

4. **SYSTEM RESPONSE**

- **NG** = No good. The message form is valid, but the request conflicts with the current status.
- **PF** = Printout follows. The DGN:OFI output message follows.
- **RL** = Retry later. The request cannot be executed now due to unavailable system resources.

5. **REFERENCES**
Input Message(s):

OP : DMQ  
RST : OFI  
STP : OFI

Output Message(s):

DGN : OFI

Input Appendix(es):

APP : RANGES

MCC Display Page(s):

1490 OIU STATUS
DGN:ONTC-A

Software Release: 5E14 only
Command Group: CM
Application: 5
Type: Input

1. PURPOSE

Requests diagnostics on an office network and timing complex (ONTC) to determine if it is in satisfactory working order.

2. FORMAT

DGN:ONTC=a[,RAW][,UCL][,RPT[=b]][,TLP][,HELPER=c];

3. EXPLANATION OF MESSAGE

RAW = Print raw test failure data.
TLP = Print the ordered suspected pack list if a test fails.
UCL = Print all test results unconditionally rather than just printing the first failing test. This includes executing all dual link interface (DLI) diagnostics if the ONTC common (ONTCCOM) fails.

NOTE: This may create volumes of ROP output if many failures occur.

a = ONTC side.
b = The number of times the diagnostic is to be repeated (RPT) (default 32,767).
c = Specify the foundation peripheral controller (FPC) side to be used as a 'helper' unit for the diagnostic. If this option is not input, the standby FPC will be used.

4. SYSTEM RESPONSE

NG = No good. The message syntax is valid, but the request could not be processed.
PF = Printout follows. Followed by the DGN:ONTC output message.
RL = Retry later. The request cannot be executed now.

5. REFERENCES

Input Message(s):

DGN:DLI
DGN:LI
DGN:MI
DGN:NC
DGN:QLPS
DGN:TMS

Output Message(s):
DGN:ONTC-B

Software Release: 5E15 and later
Command Group: CM
Application: 5
Type: Input

1. PURPOSE

Requests diagnostics on an office network and timing complex (ONTC) to determine if it is in satisfactory working order. This command is not applicable for offices having CM3 vintage communication modules.

2. FORMAT

DGN:ONTC=a[,RAW][,UCL][,RPT [=b]][,TLP][,HELPER = c];

3. EXPLANATION OF MESSAGE

RAW = Print raw test failure data.

TLP = Print the ordered suspected pack list if a test fails.

UCL = Print all test results unconditionally rather than just printing the first failing test. This includes executing all dual link interface (DLI) diagnostics if the ONTC common (ONTCCOM) fails.

Note: This may create volumes of ROP output if many failures occur.

a = ONTC side.

b = The number of times the diagnostic is to be repeated (RPT) (default 32,767).

c = Specify the foundation peripheral controller (FPC) side to be used as a 'helper' unit for the diagnostic. If this option is not input, the standby FPC will be used.

4. SYSTEM RESPONSE

NG = No good. The message syntax is valid, but the request could not be processed.

PF = Printout follows. Followed by the DGN:ONTC output message.

RL = Retry later. The request cannot be executed now.

5. REFERENCES

Input Message(s):

DGN:DLI
DGN:LI
DGN:MI
DGN:NC
DGN:QLPS
DGN:TMS
Output Message(s):

DGN: ONTC
DGN: QLPS

Input Appendix(es):

APP: CM-IM-REASON

Other Manual(s):

235-105-210  *Routine Operations and Maintenance*
235-105-220  *Corrective Maintenance*

MCC Display Page(s):

1209 (ONT 0 & 1)
1220 (TMS 0/1 LINK SUMMARY)
1240,1250 (MSGS 0/1 SUMMARY 1-0, 8-9)
1800 (MCTSI)
DGN:ONTCCOM-A

Software Release: 5E14 only
Command Group: CM
Application: 5
Type: Input

1. PURPOSE
Requests that the specified office network and timing common units (ONTCCOM) be diagnosed. The ONTCCOM is made up of the following entities:

- Message interface (MI).
- Network clock (NC).
- Time multiplexed switch (TMS) excluding the network control and timing links (NCTLNKs).
- Link interface (LI), which exists only in the communication module model 1 (CM1) hardware.

2. FORMAT
DGN:ONTCCOM=a[,RAW][][,UCL][][,RPT[]=b][][,TLP][][,HELPER=c];

3. EXPLANATION OF MESSAGE

RAW  = Print raw test failure data.
TLP  = Print the ordered suspected pack list is a test fails.
UCL  = Print all test results unconditionally rather than just printing the first failing test.
a    = ONTC side.
b    = Number of times the diagnostic is to be executed (RPT) (default 32,767).
c    = Specify the foundation peripheral controller (FPC) side to be used as a 'helper' unit. If this option is not input, the standby FPC will be used.

4. SYSTEM RESPONSE
NG   = No good. The request has been denied. The message syntax is valid, but the request could not be processed.
PF   = Printout follows. Followed by the DGN:ONTCCOM output message.
RL   = Retry later. The request cannot be executed now.

5. REFERENCES
Input Message(s):
DGN:DLI
DGN:LI
Output Message(s):

DGN: ONTCCOM

Input Appendix(es):

APP: CM–IM–REASON

Other Manual(s):
235-105-210  Routine Operations and Maintenance
235-105-220  Corrective Maintenance
1. PURPOSE

Requests that the specified office network and timing common units (ONTCCOM) be diagnosed. The ONTCCOM is made up of the following entities:
- Message interface (MI).
- Network clock (NC).
- Time multiplexed switch (TMS) excluding the network control and timing links (NCTLNKs).
- Link interface (LI), which exists only in the communication module model 1 (CM1) hardware.

2. FORMAT

DGN:ONTCOM=a[,RAW][,UCL][,RPT=[b]][,TLP][,PH=[c][&&d]][,TMSLNK=[e][&&f]][,GROW][,HELPER=g];

3. EXPLANATION OF MESSAGE

RAW = Print raw test failure data.
TLP = Print the ordered suspected pack list is a test fails.
UCL = Print all test results unconditionally rather than just printing the first failing test.
GROW = Allows access to growth equipment.
a = ONTC side.
b = Number of times the diagnostic is to be executed (RPT) (default 32,767).
c = Diagnostic beginning phase to be performed.
d = Diagnostic ending phase to be performed.
e = TMS link number to start diagnostic from. This option is applicable only in Communication Module model 3 (CM3). Used only with diagnostic phases 20 and 21. If it's the only range limit specified then it's the only TMS link being diagnosed. If neither range limit specified then the whole range of 4-371 is implied.
f = TMS link number to end diagnostic at. This option is applicable only in CM3.
g = Specify the foundation peripheral controller (FPC) side to be used as a 'helper' unit. If this option is not input, the standby FPC will be used. This option is not legal in CM3.

4. SYSTEM RESPONSE

NG = No good. The request has been denied. The message syntax is valid, but the request could not be processed.
PF = Printout follows. Followed by the DGN:ONTCCOM output message.

RL = Retry later. The request cannot be executed now.

5. REFERENCES

Input Message(s):

DGN:DLI
DGN:LI
DGN:MI
DGN:NC
DGN:TMS

Output Message(s):

DGN:ONTCCOM

Input Appendix(es):

APP:CM-IM-REASON

Other Manual(s):

235-105-210 Routine Operations and Maintenance
235-105-220 Corrective Maintenance
DGN:PCTDX

**Software Release:** 5E14 and later  
**Command Group:** SM  
**Application:** 5  
**Type:** Input

### 1. PURPOSE

Requests that diagnostics be executed on a peripheral control and timing data exchanger (PCTDX)

### 2. FORMAT

```
DGN:PCTDX=a-b-c[,PH=d[&e]][,RPT[=f]][,GROW][,RAW][,TLP][,UCL];
```

### 3. EXPLANATION OF MESSAGE

- **GROW** = Allow access to growth equipment.
- **PH** = The phase or phases to be run in the diagnostic.
- **RAW** = Print raw test failure data.
- **RPT** = Repeat test option.
- **TLP** = Print the ordered pack list if diagnostic fails.
- **UCL** = Execute and print all test failures unconditionally.

- **a** = Switch Module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
- **b** = Peripheral control and timing data exchanger unit (PDXU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
- **c** = Peripheral control and timing data exchanger (PCTDX) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
- **d** = The number of the phase to be run, or the lower limit of a range of phases.
- **e** = The upper limit of a range of phases to be run.
- **f** = The number of times the exercise is to be repeated (1-32766). If 'f' is not specified, the test will be repeated 32,767 times.

### 4. SYSTEM RESPONSE

- **NG** = No good. The request has been denied. The message is valid, but the request conflicts with current status.
- **PF** = Printout follows. Followed by the DGN:PCTDX output message.
- **RL** = Retry later. The request cannot be executed now due to unavailable system resources.
5. REFERENCES

Input Message(s):

- ABT: PCTDX
- STP: PCTDX
- RST: PCTDX

Output Message(s):

- DGN: PCTDX

Input Appendix(es):

- APP: RANGES

Other Manual(s):

- 235-105-110  Corrective Maintenance

MCC Display Page(s):

- 1330,y (PDXU)
DGN: PLTLK

Software Release: 5E15 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Removes and diagnoses a specified PCT (Peripheral Control and Timing) link. The circuit remains OOS (Out-of-Service), and the ports are denied service, regardless of the result of the diagnostic, until a RST (restore) is requested.

2. FORMAT

DGN: PLTLK=a-b-c-d[,PH=e[,&f][][,RPT[=g]][,GROW][,RAW][,TLP][,UCL];

3. EXPLANATION OF MESSAGE

a = Switching module (SM) number. Refer to the APP: RANGES appendix in the Appendixes section of the Input Messages manual.

b = PLTU (PCT Line and Trunk Unit) number. Refer to the APP: RANGES appendix in the Appendixes section of the Input Messages manual.

c = PCT Facility Interface number. Refer to the APP: RANGES appendix in the Appendixes section of the Input Messages manual.

d = PCT Facility Interface side number. Refer to the APP: RANGES appendix in the Appendixes section of the Input Messages manual.

e = The number of the phase to be run, or the lower limit of a range of phases. Refer to the APP: RANGES appendix in the Appendixes section of the Input Messages manual.

f = The upper limit of a range of phases to be run. Refer to the APP: RANGES appendix in the Appendixes section of the Input Messages manual.

g = The number of times the diagnostic phases are to be repeated (1-32676). If variable ‘g’ is not specified, the phases will be repeated 32,767 times.

GROW = Allows access to growth equipment.

RAW = Print data from raw data test failure.

TLP = Print the ordered pack list.

UCL = Execute and print all test failures unconditionally rather than stopping after the first test failure.

4. SYSTEM RESPONSE

NG = No good. Valid values are:

- REASON FOR NG = The message form is valid, but the request conflicts with current status.
PF  = Printout follows. A DGN PLTLK output message follows.
RL  = Retry later. The request cannot be executed now due to unavailable system resource.

5. REFERENCES

Input Message(s):

ABT:PLTLK
STP:PLTLK
RST:PLTLK
RMV:PLTLK
SW:PLTLK

Output Message(s):

DGN:PLTLK

Input Appendix(es):

APP:RANGES

Other Manual(s):

235-105-110  System Maintenance Requirements and Tools
235-105-220  Corrective Maintenance

MCC Display Page(s):

1430 (PLTU Status page)
DGN:PMU

Software Release: 5E14 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Requests that a precision measurement unit (PMU) be diagnosed to determine whether it is in satisfactory working order.

2. FORMAT

DGN:PMU=a-b-c[,RAW][,UCL][,RPT[=d]][,GROW][,PH=e[&f]][,TLP];

3. EXPLANATION OF MESSAGE

GROW = Allow access to growth equipment.
RAW = Print raw test failure data.
TLP = Print the ordered pack list.
UCL = Unconditionally execute and print all test failures.
a = Switching module (SM) number.
b = Directly connected test unit number.
c = Circuit number.
d = The number of times the test is to be repeated. If variable 'd' is not specified, the test will be repeated 32,767 times.
e = Diagnostic phase(s) to be performed, or the lower limit of a range of phases.
f = Upper limit of a range of diagnostic phases to be performed.

4. SYSTEM RESPONSE

NG = No good. The request has been denied. The message form is valid, but the request conflicts with current status.
PF = Printout follows. Followed by the DGN:PMU output message.

5. REFERENCES

Output Message(s):

DGN:PMU

Other Manual(s):
235-105-220 Corrective Maintenance
DGN:PPC

Software Release: 5E14 and later
Command Group: CM
Application: 5
Type: Input

1. PURPOSE

Requests diagnostics on a pump peripheral controller (PPC) to determine if it is in satisfactory working order.

Note: This command is not applicable to offices having CM3 vintage communications modules.

2. FORMAT

DGN:PPC=a[,RAW][,UCL][,RPT [=b]][,PH=c][&d][,TLP];

3. EXPLANATION OF MESSAGE

RAW = Print data from raw data test failure.
TLP = Print the ordered pack list.
UCL = Execute unconditionally.
a = PPC number.
b = The number of times the test is to be repeated. If \( b \) is not specified, the test will be repeated 32,767 times.
c = Diagnostic phase to be performed or lower limit in a range of phases.
d = Upper limit in a range of phases.

4. SYSTEM RESPONSE

NG = No good. The message form is valid, but the request conflicts with current status.
PF = Printout follows.
RL = Retry later. The request cannot be executed now.

5. REFERENCES

Input Message(s):

    ABT:PPC
    OP:DMQ
    STP:PPC

Output Message(s):
Other Manual(s):
235-105-210 Routine Operations and Maintenance
235-105-220 Corrective Maintenance
DGN:PROTO
Software Release: 5E14 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE
Requests that the protocol circuit (PROTO) be diagnosed to determine whether it is in satisfactory working order.

2. FORMAT
DGN:PROTO=a-b-c[,RAW][,UCL][,RPT=d][,GROW][,PH=e][,F][,TLP];

3. EXPLANATION OF MESSAGE

GROW = Allow access to growth equipment.
RAW = Print data from raw data test failure.
TLP = Print the ordered pack list.
UCL = Unconditionally execute.
a = Switching module number.
b = Unit number.
c = Service group number.
d = Repeat the test 'd' times. If 'd' is not specified, the test will be repeated 32,767 times.
e = Diagnostic phase(s) to be performed, or the lower limit of a range of phases.
f = Upper limit of a range of diagnostic phases to be performed.

4. SYSTEM RESPONSE

NG = No good. The request has been denied. The message form is valid, but the request conflicts with current status.
PF = Printout follows. Followed by the DGN:PROTO output message.

5. REFERENCES

Output Message(s):
DGN:PROTO

Other Manual(s):
235-105-220 Corrective Maintenance
DGN:PSUCOM-A

Software Release: 5E14 - 5E15
Command Group: SM
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Requests that a packet switch unit (PSU) common (COM) controller be diagnosed. Completion of this input message leaves the unit in the out-of-service (OOS) state.

NOTE: If the unit is not OOS, the system will first remove the unit conditionally.

2. FORMAT

DGN:PSUCOM=b-c-d[,PH=f[&g]][,RPT=[h]][,SHELF=i][,FSTEST][,GROW][,RAW][,TLP][,UCL];

3. EXPLANATION OF MESSAGE

FSTEST = Allows the factory demand phases 80, 81, 82, 83 to be executed.
- These demand phases are intended for factory use only, and should not be used in a live office with active PHs.
- Factory demand phases 80, 81, 82, 83 will be run not only on the PSUPH specified in the DGN input message, but on all out-of-service PSUPHs.
- FSTEST has no effect on normal PSUPH diagnostic.
- The factory demand phases do not support TLP.
- If factory demand phases are run without the FSTEST option the result is "no test run" (NTR).
- The PERIIA audit must be manually inhibited prior to running these factory demand phases. INH:AUD=PERIIA,SM=x;
- The PSUPH specified can be any out-of-service protocol handler.
- While running factory demand phases 80, 81, 82, 83, restores of PSUCOMs and PSUPH should not be performed.

GROW = Allow access to growth equipment.

RAW = Print data from raw data test failure.

SHELF = Subunit.

TLP = Print the ordered pack list.

UCL = Unconditionally execute and print all test failures rather than stopping after the first test failure.

b = Switching module (SM) number.

c = PSU number.
d = Service group number.

f = Number of the diagnostic phase to be run or the lower limit of a range of phases.

g = Upper limit of a range of phases.

h = Repeat count. Number of times the test is to be repeated. Default (1 - 32,767).

i = The PSUCOM shelf to be diagnosed. If SHELF is not specified, diagnostics will be performed on all shelves. FSTEST option should only be used for the factory system test.

4. SYSTEM RESPONSE

NG = No good. The message form is valid, but the request conflicts with current status.

PF = Printout follows. Followed by the DGN:PSU output message.

RL = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

Output Message(s):

DGN:PSU

MCC Display Page(s):

PSU Shelf
PSU Network
**1. PURPOSE**

Requests that a packet switch unit (PSU) common (COM) controller be diagnosed. Completion of this input message leaves the unit in the out-of-service (OOS) state.

**NOTE:** If the unit is not OOS, the system will first remove the unit conditionally.

**2. FORMAT**

```
DGN:PSUCOM=b-c-d[,PH=f[&g]][,RPT=[h]][,SHELF=i][,FSTEST][,GROW][,RAW][,TLP][,UCL];
```

**3. EXPLANATION OF MESSAGE**

- **FSTEST**
  - Allows the factory demand phases 80, 81, 82, 83 to be executed.
  - These demand phases are intended for factory use only, and should not be used in a live office with active PHs.
  - Factory demand phases 80, 81, 82, 83 will be run not only on the PSUPH specified in the DGN input message, but on all out-of-service PSUPHs.
  - FSTEST has no effect on normal PSUPH diagnostic.
  - The factory demand phases do not support TLP.
  - If factory demand phases are run without the FSTEST option the result is "no test run" (NTR).
  - The PERIIA audit must be manually inhibited prior to running these factory demand phases. INH: AUD=PERIIA, SM=x;
  - The PSUPH specified can be any out-of-service protocol handler.
  - While running factory demand phases 80, 81, 82, 83, restores of PSUCOMs and PSUPH should not be performed.

- **GROW**
  - Allow access to growth equipment.

- **RAW**
  - Print data from raw data test failure.

- **SHELF**
  - Subunit.

- **TLP**
  - Print the ordered pack list.

- **UCL**
  - Unconditionally execute and print all test failures rather than stopping after the first test failure.

- **b**
  - Switching module (SM) number.

- **c**
  - PSU number.
d = Service group number.

f = Number of the diagnostic phase to be run or the lower limit of a range of phases.

g = Upper limit of a range of phases.

h = Repeat count. Number of times the test is to be repeated. Default (1 - 32,767).

i = The PSUCOM shelf to be diagnosed. If SHELF is not specified, diagnostics will be performed on all shelves. FSTEST option should only be used for the factory system test.

4. SYSTEM RESPONSE

NG = No good. The message form is valid, but the request conflicts with current status.

PF = Printout follows. Followed by the DGN:PSU output message.

RL = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

Output Message(s):

DGN:PSU

MCC Display Page(s):

PSU Shelf
PSU Network
DGN:PSUPH-A

**Software Release:** 5E14 - 5E15  
**Command Group:** SM  
**Application:** 5  
**Type:** Input

1. **PURPOSE**

Requests that a packet switch unit (PSU) protocol handler (PH) be diagnosed. Completion of this input message leaves the unit in the out-of-service (OOS) state.

**NOTE:** If the unit is not OOS, the system will first remove the unit conditionally.

2. **FORMAT**

DGN:PSUPH=b-c-d[-e][,PH=f[&g]][,RPT=[h]][,SHELF=i][,FSTEST][,GROW][,RAW][,TLP][,UCL];

3. **EXPLANATION OF MESSAGE**

- **FSTEST** = Allows the factory demand phases 80, 81, 82, 83 to be executed.

  - These demand phases are intended for factory use only, and should not be used in a live office with active PHs.
  
  - Factory demand phases 80, 81, 82, 83 will be run not only on the PSUPH specified in the DGN input message, but on all out-of-service PSUPHs.
  
  - FSTEST has no effect on normal PSUPH diagnostic.
  
  - The factory demand phases do not support TLP.
  
  - If factory demand phases are run without the FSTEST option the result is "no test run" (NTR).
  
  - The PERIIA audit must be manually inhibited prior to running these factory demand phases. INH:AUD=PERIIA,SM=x;
  
  - The PSUPH specified can be any out-of-service protocol handler.
  
  - While running factory demand phases 80, 81, 82, 83, restores of PSUCOMs and PSUPH should not be performed.

- **GROW** = Allow access to growth equipment.

- **RAW** = Print data from raw data test failure.

- **SHELF** = Subunit.

- **TLP** = Print the ordered pack list.

- **UCL** = Unconditionally execute and print all test failures rather than stopping after the first test failure.

- **b** = Switching module (SM) number.
c = PSU number.
d = Shelf number.
e = Protocol handler number.
f = Number of the diagnostic phase to be run or the lower limit of a range of phases.
g = Upper limit of a range of phases.
h = Repeat count. Number of times the test is to be repeated. Default (1 - 32,767).
i = The PSUCOM shelf to be diagnosed. If SHELF is not specified, diagnostics will be performed on all shelves.

4. SYSTEM RESPONSE

NG = No good. The message form is valid, but the request conflicts with current status.
PF = Printout follows. Followed by the DGN:PSU output message.
RL = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

Output Message(s):

DGN:PSU

MCC Display Page(s):

PSU Shelf
PSU Network
1. PURPOSE

Requests that a packet switch unit (PSU) protocol handler (PH) be diagnosed. Completion of this input message leaves the unit in the out-of-service (OOS) state.

NOTE: If the unit is not OOS, the system will first remove the unit conditionally.

2. FORMAT

DGN:PSUPH=b-c-d\[-e\],[PH=f[++g]][,RPT[=h]][,SHELF=i][,FSTEST]
[,GROW][,RAW][,TLP][,UCL];

3. EXPLANATION OF MESSAGE

FSTEST = Allows the factory demand phases 80, 81, 82, 83 to be executed.

- These demand phases are intended for factory use only, and should not be used in a live office with active PHs.

- Factory demand phases 80, 81, 82, 83 will be run not only on the PSUPH specified in the DGN input message, but on all out-of-service PSUPHs.

- FSTEST has no effect on normal PSUPH diagnostic.

- The factory demand phases do not support TLP.

- If factory demand phases are run without the FSTEST option the result is "no test run" (NTR).

- The PERIIA audit must be manually inhibited prior to running these factory demand phases. INH:AUD=PERIIA,SM=x;

- The PSUPH specified can be any out-of-service protocol handler.

- While running factory demand phases 80, 81, 82, 83, restores of PSUCOMs and PSUPH should not be performed.

GROW = Allow access to growth equipment.

RAW = Print data from raw data test failure.

SHELF = Subunit.

TLP = Print the ordered pack list.

UCL = Unconditionally execute and print all test failures rather than stopping after the first test failure.

b = Switching module (SM) number.
c = PSU number.
d = Shelf number.
e = Protocol handler number.
f = Number of the diagnostic phase to be run or the lower limit of a range of phases.
g = Upper limit of a range of phases.
h = Repeat count. Number of times the test is to be repeated. Default (1 - 32,767).
i = The PSUCOM shelf to be diagnosed. If SHELF is not specified, diagnostics will be performed on all shelves.

4. SYSTEM RESPONSE

NG = No good. The message form is valid, but the request conflicts with current status.
PF = Printout follows. Followed by the DGN:PSU output message.
RL = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

Output Message(s):

DGN:PSU

MCC Display Page(s):

PSU Shelf
PSU Network
DGN:QGP

Software Release: 5E14 and later
Command Group: CM
Application: 5
Type: Input

1. PURPOSE

Requests diagnosis of a quad-link packet switch (QLPS) gateway processor (QGP) to determine whether it is in satisfactory working order. Completion of this input message leaves the unit in the out-of-service (OOS) state.

Note 1: If the unit is not OOS, the system will first remove the unit conditionally.

Note 2: This command is not applicable to offices having CM3 vintage communications modules.

2. FORMAT

DGN:QGP=a-b[,RAW][,RPT=[c]][,UCL][,TLP][,PH=d&&e][,GROW];

3. EXPLANATION OF MESSAGE

GROW = Run diagnostics on a QGP in the GROW state. If the QGP is GROW, this option must be input to perform the diagnostic.

RAW = Print data from raw data test failure.

RPT = Repeat the diagnostic 'c' times.

TLP = Executes the trouble location procedure at the conclusion of the diagnostic. This process generates a list of suspected faulty equipment.

UCL = Execute diagnostic unconditionally.

a = Message switch side. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

b = QGP number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

c = Number of times the diagnostic is to be repeated. The default and maximum is 32767 times.

d = Phase (PH) number or lower limit of a range of phase numbers.

e = Upper limit of a range of phase numbers.

4. SYSTEM RESPONSE

NG = No good. The request has been denied. The message syntax is valid but the request could not be processed. Refer to the APP:CM-IM-REASON appendix in the Appendixes section of the Input Messages manual for a list of possible reasons for denying the request.
PF = Printout follows. The DGN:QGP output message follows.

RL = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

Input Message(s):

ABT:QGP
OP:DMQ–CM–SM
STP:QGP

Output Message(s):

DGN:QGP

Input Appendix(es):

APP:CM–IM–REASON
APP:RANGES

MCC Display Page(s):

1241/1251 (MSGS COMMUNITIES 0-1, 8-9)
1380/1381 (QLPS NETWORK 0/1 STATUS)
1. PURPOSE

Requests diagnosis of a quad-link packet switch (QLPS) to determine whether it is in satisfactory working order. Completion of this input message leaves the unit in the out-of-service (OOS) state.

Note: If the unit is not OOS, the system will first remove the unit conditionally.

2. FORMAT

DGN:QLPS=a-b[,RAW][,GROW][,UCL][,RPT[=c]][,TLP][,PH=d&e][,HELPER=f];

3. EXPLANATION OF MESSAGE

GROW = Allows access to growth equipment. Run diagnostics on an QLPS in the GROW state. If the QLPS is GROW, this option must be input to perform the diagnostic. Also allows access to QGPs in the GROW state that are connected to the QLPS using QGLs.

RAW = Print data from raw data test failure.

RPT = Repeat the diagnostic ‘c’ times.

TLP = Executes the trouble location procedure at the conclusion of the diagnostic. This process generates a list of suspected faulty equipment.

UCL = Execute tests unconditionally and print test failures rather than stopping after the first test failure.

a = Office network timing and control (ONTC) side number.

b = QLPS network number.

c = Number of times the diagnostic is to be repeated. Maximum and default is 32767 times.

d = Phase (PH) number or lower limit of a range of phase numbers.

e = Upper limit of a range of phase numbers.

f = Foundation peripheral controller (FPC) side number to be used as a 'helper' unit for the diagnostic. If this option is not input the standby FPC will be used.

4. SYSTEM RESPONSE

NG = No good. The request has been denied. The message syntax is valid but the request could not be processed. Refer to the APP:CM-IM-REASON appendix in the Appendixes section of the Input Messages manual for a list of possible reasons for denying the request.

PF = Printout follows. The DGN:QLPS output message follows.
5. REFERENCES

Input Message(s):

ABT: QLPS
OP: DMQ-CM-SM
STP: QLPS

Output Message(s):

DGN: QLPS

Input Appendix(es):

APP: CM-IM-REASON
APP: RANGES

MCC Display Page(s):

1209 (ONTC 0 & 1)
1380/1381 (QLPS NETWORK 0/1 STATUS)
DGN:QLPS-B

**Software Release:** 5E15 and later
**Command Group:** CM
**Application:** 5
**Type:** Input

1. **PURPOSE**

Requests diagnosis of a quad-link packet switch (QLPS) to determine whether it is in satisfactory working order. Completion of this input message leaves the unit in the out-of-service (OOS) state.

Note: If the unit is not OOS, the system will first remove the unit conditionally.

2. **FORMAT**

DGN:QLPS=a-b[,RAW][,GROW][,UCL][,RPT [=c]][,TLP][,PH=d&&e][,HELPER=f];

3. **EXPLANATION OF MESSAGE**

- **GROW** = Allows access to growth equipment. Run diagnostics on an QLPS in the GROW state. If the QLPS is GROW, this option must be input to perform the diagnostic. Also allows access to QGPs in the GROW state that are connected to the QLPS using QGLs.

- **RAW** = Print data from raw data test failure.

- **RPT** = Repeat the diagnostic 'c' times.

- **TLP** = Executes the trouble location procedure at the conclusion of the diagnostic. This process generates a list of suspected faulty equipment.

- **UCL** = Execute tests unconditionally and print test failures rather than stopping after the first test failure.

- **a** = Office network timing and control (ONTC) side number.

- **b** = QLPS network number.

- **c** = Number of times the diagnostic is to be repeated. Maximum and default is 32767 times.

- **d** = Phase (PH) number or lower limit of a range of phase numbers.

- **e** = Upper limit of a range of phase numbers.

- **f** = Foundation peripheral controller (FPC) side number to be used as a ‘helper’ unit for the diagnostic. If this option is not input the standby FPC will be used. This option is not applicable for communication module 3 (CM3).

4. **SYSTEM RESPONSE**

- **NG** = No good. The request has been denied. The message syntax is valid but the request could not be processed. Refer to the APP:CM-IM-REASON appendix in the Appendixes section of the Input Messages manual for a list of possible reasons for denying the request.
PF = Printout follows. The DGN:QLPS output message follows.

RL = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

Input Message(s):

ABT:QLPS
OP:DMQ-CM-SM
STP:QLPS

Output Message(s):

DGN:QLPS

Input Appendix(es):

APP:CM-IM-REASON

MCC Display Page(s):

1209 (ONTC 0 & 1)
1380/1381 (QLPS NETWORK 0/1 STATUS)
1. PURPOSE

Removes and diagnoses a recorded announcement function (RAF) unit to determine whether it is in satisfactory working order. The unit is left out-of-service (OOS).

2. FORMAT

DGN:RAF=a-b[,RAW][,UCL][,RPT[=c]][,GROWTH][,PH={d|d&d}][,TLP];

3. EXPLANATION OF MESSAGE

GROWTH = Allow access to growth equipment.
RAW = Print raw test failure data.
RPT = Repeat test option.
TLP = Print the ordered pack list.
UCL = Unconditionally execute. DGN will continue past all non-fatal failures.

a = Switching module (SM) number.
b = RAF unit number.
c = The number of times the test is to be repeated. If 'c' is not specified, the test will be repeated 32,767 times.
d = Diagnostic phase to be performed. If 'd' is specified as a single phase, only that phase will be performed. If 'd' is specified as a range, 'd' will be the first phase in that range to be performed.
e = The last diagnostic phase in the range between and including 'd' and 'e' to be performed.

4. SYSTEM RESPONSE

NG = No good. The request has been denied because it conflicts with current equipment status. May also include:
- SM DOES NOT EXIST = The requested SM does not exist in the system.
- SM UNEQUIPPED = The SM specified in the request is unequipped.
- UNIT DOES NOT EXIST = The requested unit does not exist in the system.

PF = Printout follows. The request has been accepted. Followed by the DGN:RAF output message.

RL = Retry later. The request cannot be executed now due to unavailable system resources. The message may be entered again later.
5. REFERENCES

Input Message(s):

RST: RAF

Output Message(s):

DGN: RAF
DGN:RAU

Software Release: 5E14 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Requests that a remote switching module (RSM) alarm (RAU) circuit be diagnosed to determine if it is in working order.

2. FORMAT

DGN:RAU=a[,RAW][,UCL][,RPT[=b]][,GROW][,PH=c[&d]][,TLP];

3. EXPLANATION OF MESSAGE

GROW = Allow access to growth equipment.
RAW = Print raw data from test failure.
TLP = Print the ordered pack list if diagnostic fails.
UCL = Unconditionally execute.
a = Switching module (SM) number.
b = Repeat the test ‘b’ times. If ‘b’ is not specified, the test will be repeated 32,767 times.
c = Number of the diagnostic phase(s) to be run.
d = Last phase of the range of phases to be run.

4. SYSTEM RESPONSE

NG = No good. Request denied because of a conflict with current status.
PF = Printout follows. Followed by the DGN:RAU output message.

Observe the following at the remote site:

<table>
<thead>
<tr>
<th>AUDIBLE</th>
<th>VISUAL</th>
<th>TIME</th>
</tr>
</thead>
<tbody>
<tr>
<td>CRITICAL</td>
<td>CRITICAL + TIP</td>
<td>5 sec</td>
</tr>
<tr>
<td>CRITICAL</td>
<td>STAND-ALONE + TIP</td>
<td>5 sec</td>
</tr>
<tr>
<td>MAJOR</td>
<td>MAJOR + TIP</td>
<td>5 sec</td>
</tr>
<tr>
<td>MINOR</td>
<td>MINOR + TIP</td>
<td>5 sec</td>
</tr>
</tbody>
</table>

TIP = Test in progress.

5. REFERENCES

Output Message(s):

DGN:RAU
DGN:RCLK
Software Release: 5E14 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE
Requests a diagnosis of a remote clock (RCLK) side. Valid value(s):

- the remote clock (RCLK)
- the remote clock cross couple (RCXC)
- the remote clock oscillator (RCOSC)
- the mate remote clock oscillator cross couple (RCOXC)
- all the equipped remote clock references (RCREFs)

2. FORMAT
DGN:RCLK=a-b[,RAW][,UCL][,RPT[=c]][,GROW][,PH=d[&e]][,TLP];

3. EXPLANATION OF MESSAGE

GROW = Allow access to growth equipment.
RAW = Print raw data from test failure.
TLP = Print the ordered pack list if diagnostic fails.
UCL = Unconditionally execute and print all test failures. Diagnostic will continue past all non-fatal errors.

Note: TLP and UCL cannot be used together.

a = Switching module (SM) number.
b = RCLK side.
c = Repeat the test 'c' times. If 'c' is not specified, the test will be repeated 32767 times.
d = Run phase 'd'.
d–e = Run phase 'd' through 'e'.

4. SYSTEM RESPONSE

NG No good. May also include:
- NOT STARTED UNIT IN GROWTH STATE
- SM DOES NOT EXIST
- SM UNEQUIPPED
- UNIT DOES NOT EXIST

**PF** = Printout follows. The DGN:RCLK output message follows.

**RL** = Retry later. The request cannot be executed now due to unavailable system resources.

### 5. REFERENCES

**Output Message(s):**

DGN : RCLK

**MCC Display Page(s):**

1170 (RSM RCLK)
1. PURPOSE
Requests that a remote switching module (RSM) digital facilities interface (RDFI) circuit be diagnosed to determine if it is in working order.

2. FORMAT
DGN:RDFI=a-b-c[,RAW][,UCL][,RPT=[=d]][,GROW][,PH=e[&f]][,TLP];

3. EXPLANATION OF MESSAGE
GROW = Allow access to growth equipment.
RAW = Print raw data from test failure.
TLP = Print the ordered pack list if diagnostic fails.
UCL = Unconditionally execute.
a = Switching module number.
b = Digital line and trunk unit (DLTU) number.
c = RDFI number.
d = Number of times the test is to be repeated. If 'd' is not specified, the test will be repeated 32,767 times.
e = Number of the diagnostic phase(s) to be run.
f = Last phase of the range of phases to be run.

4. SYSTEM RESPONSE
NG = No good. Request denied because of a conflict with current status.
PF = Printout follows. Followed by the DGN:RDFI output message.

5. REFERENCES
Output Message(s):
DGN:RDFI
1. PURPOSE
Requests that a remote switching module (RSM) remote link interface (RLI) circuit be diagnosed to determine if it is in working order.

2. FORMAT
DGN:RLI=a-b[,RAW][,UCL][,RPT=[c]][,GROW][,PH=d[&e]][,TLP];

3. EXPLANATION OF MESSAGE
GROW = Allow access to growth equipment.
RAW = Print raw data from test failure.
TLP = Print the ordered pack list if diagnostic fails.
UCL = Unconditionally execute.
a = Switching module number.
b = RLI number.
c = The number of times the test is to be repeated. If ‘c’ is not specified, the test will be repeated 32,767 times.
d = Number of the diagnostic phase(s) to be run.
e = Last phase in the range of phases to be run.

4. SYSTEM RESPONSE
NG = No good. Request denied because of a conflict with current status.
PF = Printout follows. Followed by the DGN:RLI output message.

5. REFERENCES
Output Message(s):

DGN:RLI
1. PURPOSE
Requests diagnostics of the specified ring peripheral controller node (RPCN). Four sequential system actions are performed in response to this input request.

A = The RPCN is removed from service following the rules for the RMV:RPCN input message.

B = If the resultant RPCN major state is out-of-service (OOS), growth (GROW), offline (OFL), standby (STBY), or unavailable (UNAV), an attempt is made to isolate the RPCN. For other major states, the diagnostic is aborted by the diagnostic monitor (DIAMON).

C = The specified (or default) diagnostic phases are run.

D = If the RPCN was in the active ring before the start of the diagnostics and was successfully isolated (in 2 above), an attempt is made at the conclusion of the diagnostic to include the RPCN back into the active ring. Otherwise the node is left in its original ring configuration state. The RPCN remains in the OOS, GROW, OFL, STBY, or UNAV state.

2. FORMAT
DGN:RPCNa=0[:RPT=b] [,RAW] [,UCL] [:PH=c[&&d]] [,CU=e] [,TLP];

3. EXPLANATION OF MESSAGE

CU = Helper control unit.

PH = The phase or phases to be run in the diagnostic.

RAW = Print the diagnostic results of every phase. The default is to print the results of the first five failures of each phase.

TLP = Execute the trouble locating procedure (TLP) at the conclusion of the diagnostic. The TLP generates a list of suspected faulty equipment.

UCL = Execute unconditionally.
Note: This option overrides early terminations but does not override a forced early termination.

a = Ring node group number.

b = Number of times the diagnostic is to be repeated (default is 1).

NOTE: This option does not override early termination. UCL should also be specified if the diagnostic is arranged to terminate early.

c = Phase number or lower limit of a range of phase numbers to be executed.

d = Upper limit of a range of phase numbers.
NOTE: If no phases are specified, all automatic phases are run.

= Off-line control unit (CU) required as a helper unit when demand phase 14 is specified.

NOTE: The helper CU must be out-of-service and all tests passed (ATP) before it can be used as a helper.

4. SYSTEM RESPONSE

PF  = Printout follows. The DGN:RPCN output message follows.

5. REFERENCES

Input Message(s):

OP : DMQ
RMV : RPCN

Output Message(s):

ANALY : TLPFILE
DGN : RPCN
OP : DMQ
RMV : RPCN

MCC Display Page(s):

118 (CNI FRAME AND CCS LINK STATUS)
1. PURPOSE

Diagnoses a remote integrated services line unit (RISLU) remote clock circuit pack (RRCLK) to determine whether it is in satisfactory working order. If the circuit is in service, it is conditionally removed from service and diagnosed. The circuit is left out of service (OOS) at the end of the diagnostic regardless of the result.

2. FORMAT

DGN:RRCLK=a-b-c[,PH=d[&e]][,RPT=]f[,GROW[,RAW][,TLP][,UCL];

3. EXPLANATION OF MESSAGE

GROW = Allows access to growth equipment.
RAW = Print data from raw data test failure.
TLP = Print the ordered pack list.
UCL = Unconditionally execute and print test failures rather than stopping after the first test failure.
a = Switching module (SM) number.
b = RISLU number.
c = RRCLK side.
d = Perform diagnostics phase (PH) ’d’ only.
e = Perform all diagnostics phases between and including ’d’ and ’e’.
f = Repeat the test (RPT) ’f’ times. If ’f’ is not specified, the test will be repeated 32,767 times.

4. SYSTEM RESPONSE

NG = No good. May also include:
- CONFLICT WITH UNIT STATE
- SM DOES NOT EXIST
- SM UNEQUIPPED
- UNIT DOES NOT EXIST

PF = Printout follows. The DGN:RRCLK output message follows.

RL = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES
Input Message(s):

EX: RRCLK

Output Message(s):

DGN: RRCLK

MCC Display Page(s):

(RISLU DLTU)
DGN:RVPT

Software Release: 5E14 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Requests that the revertive pulsing transceiver (RVPT) be diagnosed to determine whether it is in satisfactory working order. The circuit is left out of service when the testing is completed.

2. FORMAT

DGN:RVPT=a-b-c-d[,RAW][,UCL][,GROW][,RPT=[e]][,PH=f[&g]][,TLP];

3. EXPLANATION OF MESSAGE

GROW = Allow access to growth equipment.
RAW = Print raw data from test failure.
TLP = Print the ordered pack list.
UCL = Perform all phases in the specified or implied range and print all test failures.
a = Switching module number.
b = Unit number.
c = Service group.
d = Circuit number.
e = Repeat the test 'e' times. If 'e' is not specified, the test will be repeated 32,767 times. If RPT is not specified, it runs once.
f = Perform diagnostic phase 'f' only.
g = Perform all diagnostic phases between and including 'f' and 'g'.

4. SYSTEM RESPONSE

NG = No good. The request has been denied. The message form is valid, but the request conflicts with current status.
PF = Printout follows. The request was accepted. Followed by the DGN:RVPT output message.

5. REFERENCES

Input Message(s):

RST:RVPT
Output Message(s):

DGN : RVPT
DGN:SAS

Software Release: 5E14 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Removes and diagnoses a service announcement system (SAS) unit to determine whether it is in satisfactory working order. The unit is left out-of-service (OOS).

2. FORMAT

DGN:SAS=a-b[,RAW][,UCL][,RPT=[c]][,GROW][,PH=d[&e]][,TLP];

3. EXPLANATION OF MESSAGE

GROW = Allow access to growth equipment.
RAW = Print raw test failure data.
TLP = Print the ordered pack list.
UCL = Unconditionally executes. DGN will continue past all non-fatal failures.
a = Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
b = SAS unit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
c = The number of times the test is to be repeated. If 'c' is not specified, the test will be repeated 32,767 times.
d = Number of the diagnostic phase(s) to be performed. If 'd' is specified as a single phase, only that phase will be performed. If 'd' is specified as a range, 'd' will be the first phase in that range to be performed.
e = Number of the last diagnostic phase in the range between and including 'd' and 'e' to be performed.

4. SYSTEM RESPONSE

NG = No good. The request has been denied because it conflicts with current equipment status. May also include:
  - SM DOES NOT EXIST = The requested SM does not exist in the system.
  - SM UNEQUIPPED = The SM specified in the request is unequipped.
  - UNIT DOES NOT EXIST = The requested unit does not exist in the system.
PF = Printout follows. The request has been accepted. Followed by the DGN:SAS output message.
RL = Retry later. The request cannot be executed now due to unavailable system resources. The
message may be entered again later.

5. REFERENCES

Output Message(s):

- DGN : SAS
- RST : SAS

Input Appendix(es):

- APP : RANGES
DGN:SCAN

Software Release: 5E14 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Requests that a scan point board (SCAN) be diagnosed to determine whether it is in satisfactory working order.

2. FORMAT

DGN:SCAN=a-b-c-d[,RAW][,UCL][,RPT=[e]][,GROW][,PH=[f][&g]][,TLP];

3. EXPLANATION OF MESSAGE

GROW = Allow access to growth equipment.
RAW = Print raw test failure data.
TLP = Print the ordered pack list.
UCL = Unconditionally execute and print all test failures.

a = Switching module number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
b = Metallic service unit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
c = Service group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
d = Scan point board number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
e = The number of times the test is to be repeated. If 'e' is not specified, the test will be repeated 32,767 times.
f = Diagnostic phase(s) to be performed. If 'f' is specified as a single phase, only that phase will be performed. If 'f' is specified as a range, 'f' will be the first phase in that range to be performed.
g = The last diagnostic phase in the range between and including 'f' and 'g' to be performed.

4. SYSTEM RESPONSE

Refer to the System Responses Table in the Input Messages User Guidelines.

5. REFERENCES

Output Message(s):

DGN:SCAN
Input Appendix(es):

APP : RANGES

MCC Display Page(s):

(RISLU DLTU)
**DGN:SCSDC**

**Software Release:** 5E14 and later  
**Command Group:** AM  
**Application:** 5,3B  
**Type:** Input

1. **PURPOSE**

Diagnoses the specified scanner and signal distributor controller (SCSDC).

Note: The input/output processor (IOP) must be in service before the SCSDC can be diagnosed.

2. **FORMAT**

\[
\text{DGN:SCSDC} = a \{ [RPT=b] [,RAW] [,UCL] [,REX|,DEX] ] : [PH=c|&d] [ ,TLP] [ ,CONT] ;
\]

3. **EXPLANATION OF MESSAGE**

- **CONT** = Diagnoses only the specified controller. Units attached to the specified controller will not be diagnosed.

- **DEX** = Runs demand exercise phases in addition to routine exercise and normal (automatic) phases. This option will not allow special demand exercise phases that require user interaction to be run even if the range of phases specified includes such a phase.

- **RAW** = Prints the diagnostic results of every phase. The default is the first five failures of each failing phase.

- **REX** = Runs routine exercise phases in addition to the normal (automatic) phases. This option will not allow demand exercise phases to be run even if the range of phases specified includes such a phase.

- **TLP** = Executes the trouble locating procedure (TLP) at the conclusion of the diagnostic. This process generates a list of suspected faulty equipment.

  Note: The TLP and UCL parameters cannot be used together, as additional test results may adversely affect the TLP listing.

- **UCL** = Unconditional execution.

  Note: This option does not override a forced early termination.

- **a** = Member number.

- **b** = Number of times the diagnostic is repeated. The maximum is 256. The default is one.

  **NOTE:** This option does not override early terminations. UCL should also be specified if the diagnostic terminates.

- **c** = Specifies the first phase to be executed.

- **d** = Specifies the last phase to be executed.
4. SYSTEM RESPONSE

PF = Printout follows. Followed by the DGN:SCSDC output message.

5. REFERENCES

Input Message(s):

OP:DMQ
RMV:SCSDC
RST:IOP
RST:SCSDC
STOP:DMQ
STP:DMQ

Output Message(s):

ANALY:TLPFILE
DGN:SCSDC
OP:DMQ-CM
OP:DMQ-SM
RST:IOP

Other Manual(s):
235-105-220 Corrective Maintenance
DGN:SDFI

Software Release: 5E14 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Requests that a SLC®96 digital facility interface (SDFI) circuit be removed and diagnosed. The circuit will remain out of service (regardless of the diagnostic's result) until a restore (RST) is requested.

The SDFI interfaces with SLC®96 digital carrier line unit (DCLU) service groups. There are 4 classes of faults associated with SDFI and DCLU circuits and they are written in the order in which they are most likely to occur:

A = SDFI faults that are detected with SDFI diagnosis.
B = SDFI faults that are only detected by diagnosing a DCLU.
C = DCLU faults that are only detected with a SDFI diagnosis (any SDFI).
D = DCLU faults that are only detected by diagnosing a particular SDFI.

Fault recovery is unable to determine if detected problems are associated with bad SDFI or DCLU circuits. Therefore fault recovery uses an algorithm in determining which circuits (SDFI or DCLU) to diagnose.

2. FORMAT

DGN:SDFI=a-b-c[,RAW][,UCL][,RPT=[d]][,GROW][,PH=e[&f]][,TLP];

3. EXPLANATION OF MESSAGE

GROW = Allow access to growth equipment.
RAW = Print raw test results [all tests passed (ATP)/some tests failed (STF)] for each phase executed.
TLP = Print the ordered suspect pack list if a test fails.
UCL = Unconditionally execute and print all test results requested rather than stopping on first failing phase.
a = Switching module (SM) number.
b = Digital carrier line unit (DCLU) number.
c = SDFI number.
d = The number of times the test is to be repeated. If 'd' is not specified, the test will be repeated 32,767 times.
e = Diagnostic phase to be performed. If 'e' is specified as a single phase, only that phase will be performed. If 'e' is specified in a range, 'e' will be the first phase in that range to be performed.
f = The last diagnostic phase in the range between and including 'e' and 'f' to be performed.
4. SYSTEM RESPONSE

NG = No good. The request has been denied. The message form is valid, but the request conflicts with current status.

PF = Printout follows. The request was accepted. The DGN:SDFI output message follows when the diagnostic is executed.

RL = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

Input Message(s):

EX:SDFI
RMV:SDFI
RST:SDFI
STP:SDFI

Output Message(s):

DGN:SDFI
DGN:SDLC

Software Release: 5E14 and later
Command Group: AM
Application: 5,3B
Type: Input

1. PURPOSE

Diagnoses the specified synchronous data link controller (SDLC).

**NOTE:** The input/output processor (IOP) must be in service before the SDLC can be diagnosed.

2. FORMAT

DGN:SDLC=a[:[RPT=b],RAW[,UCL[,REX,DEX]][:[PH=c & & d]][,TLP [,CONT]]];

3. EXPLANATION OF MESSAGE

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>CONT</td>
<td>Diagnoses only the specified controller. Units attached to the specified controller will not be diagnosed.</td>
</tr>
<tr>
<td>DEX</td>
<td>Runs demand exercise phases in addition to routine exercise and normal (automatic) phases. This option will not allow special demand exercise phases which require user interaction to be run even if the range of phases specified includes such a phase.</td>
</tr>
<tr>
<td>RAW</td>
<td>Prints the diagnostic results of every phase. The default is the first five failures of each failing phase.</td>
</tr>
<tr>
<td>REX</td>
<td>Runs routine exercise phases in addition to the normal (automatic) phases. This option will not allow demand exercise phases to be run even if the range of phases specified includes such a phase.</td>
</tr>
<tr>
<td>TLP</td>
<td>Executes the trouble locating procedure (TLP) at the conclusion of the diagnostic. This process generates a list of suspected faulty equipment.</td>
</tr>
<tr>
<td>UCL</td>
<td>Unconditional execution. Note: This option does not override a forced early termination.</td>
</tr>
</tbody>
</table>

**NOTE:** The TLP and UCL parameters cannot be used together, as additional test results may adversely affect the TLP listing.

<table>
<thead>
<tr>
<th>Symbol</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>a</td>
<td>Member number.</td>
</tr>
<tr>
<td>b</td>
<td>Number of times the diagnostic is repeated. The maximum is 256. The default is one. <strong>NOTE:</strong> This option does not override early terminations. UCL should also be specified if the diagnostic terminates.</td>
</tr>
<tr>
<td>c</td>
<td>Specifies the first phase to be executed.</td>
</tr>
<tr>
<td>d</td>
<td>Specifies the last phase to be executed.</td>
</tr>
</tbody>
</table>

4. SYSTEM RESPONSE

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PF = Printout follows. Followed by the DGN:SDLC output message.

5. REFERENCES

Input Message(s):

OP: DMQ
RMV: SDLC
RST: IOP
RST: SDLC
STOP: DMQ
STP: DMQ

Output Message(s):

ANALY: TLFILE
DGN: SDLC
OP: DMQ-CM
OP: DMQ-SM
RST: IOP

Other Manual(s):
235-105-220 Corrective Maintenance
DGN:SFI

Software Release: 5E14 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Requests that diagnostics be executed on a digital networking unit - synchronous optical network (DNU-S) synchronous transport signal electrical interface (STSX-1) facility interface (SFI).

2. FORMAT

DGN:SFI=a-b-c-d[,PH=e[&f]][,RPT [=g]][,GROW][,RAW][,TLP][,UCL];

3. EXPLANATION OF MESSAGE

GROW  = Allows access to growth equipment.
RAW  = Print data from raw data test failure.
TLP  = Print the ordered pack list if a test fails.
UCL  = Execute and print all test failures unconditionally rather than stopping after the first test failure.
a  = Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
b  = DNU-S number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
c  = Data group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
d  = STSX-1 facility interface number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
e  = The number of the phase to be run, or the lower limit of a range of phases.
f  = The upper limit of a range of phases to be run.
g  = The number of times the diagnostic phases are to be repeated (1-32676). If variable ‘g’ is not specified, the phases will be repeated 32,767 times.

4. SYSTEM RESPONSE

NG  = No good. The message form is valid, but the request conflicts with the current status.
PF  = Printout follows. The DGN:SFI output message follows.
RL  = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES
Input Message(s):
   OP : DMQ
   RST : SFI
   STP : SFI

Output Message(s):
   DGN : SFI

Input Appendix(es):
   APP : RANGES

MCC Display Page(s):
   1510 (DNUS STATUS)
DGN:SLIM

Software Release: 5E14 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Requests that a subscriber line instrument measurement (SLIM) board be diagnosed to determine whether it is in satisfactory working order.

2. FORMAT

DGN:SLIM=a-b-c-d[,RAW][,UCL][,RPT[=e]][,GROW][,PH=f[&g]][,TLP];

3. EXPLANATION OF MESSAGE

GROW = Allow access to growth equipment.
RAW = Print raw test failure data.
TLP = Print the ordered pack list.
UCL = Unconditionally execute and print all test failures.
a = Switching module number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
b = Metallic service unit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
c = Service group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
d = SLIM board number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
e = The number of times the test is to be repeated. If 'e' is not specified, the test will be repeated 32,767 times.
f = Diagnostic phase(s) to be performed. If 'f' is specified as a single phase, only that phase will be performed. If variable 'f' is specified as a range, 'f' will be the first phase in that range to be performed.
g = The last diagnostic phase in the range between and including 'f' and 'g' to be performed.

4. SYSTEM RESPONSE

None.

5. REFERENCES

Output Message(s):
DGN: SLIM

Input Appendix(es):

APP: RANGES

MCC Display Page(s):

(RISLU DLTU)
DGN:TAC

Software Release: 5E14 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE
Requests that a test and access circuit (TAC) be diagnosed to determine whether it is in satisfactory working order.

2. FORMAT
DGN:TAC=a-b-c[,RAW][,UCL][,RPT [=d]][,GROW][,PH=e[&f]][,TLP];

3. EXPLANATION OF MESSAGE
GROW = Allow access to growth equipment.
RAW = Print raw test failure data.
TLP = Print the ordered pack list.
UCL = Unconditionally execute and print all test failures.
a = Switching module number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
b = Trunk unit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
c = Service group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
d = The number of times the test is to be repeated. If 'd' is not specified, the test will be repeated 32,767 times.
e = Diagnostic phase(s) to be performed. If 'e' is specified as a single phase, only that phase will be performed. If 'e' is specified as a range, 'e' will be the first phase in that range to be performed.
f = The last diagnostic phase in the range between and including 'e' and 'f' to be performed.

4. SYSTEM RESPONSE
NG = No good. Input request not valid.
PF = Printout follows. Followed by the DGN:TAC output message.

5. REFERENCES
Output Message(s):
DGN:TAC
Input Appendix(es):

APP : RANGES
DGN:TEN

Software Release: 5E14 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Requests that a trunk equipment number (TEN) be diagnosed to determine whether it is in satisfactory working order.

2. FORMAT

DGN:TEN=a-b-c-d-e[,RAW][,UCL][,RPT=[f]][,GROW][,PH=g[&h]][,TLP];

3. EXPLANATION OF MESSAGE

GROW = Allow access to growth equipment.
RAW = Print raw test failure data.
TLP = Print the ordered pack list.
UCL = Unconditionally execute and print all test failures.

a = Switching module number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

b = TEN unit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

c = Service group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

d = TEN board number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

e = TEN circuit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

f = The number of times the test is to be repeated. If 'f' is not specified, the test will be repeated 32,767 times.

g = Diagnostic phase(s) to be performed. If 'g' is specified as a single phase, only that phase will be performed. If 'g' is specified as a range, 'g' will be the first phase in that range to be performed.

h = The last diagnostic phase in the range between and including 'g' and 'h' to be performed.

4. SYSTEM RESPONSE

NG = No good. Input request not valid.
PF = Printout follows. Followed by the DGN:TEN output message.
5. REFERENCES

Output Message(s):

   DGN: TEN

Input Appendix(es):

   APP: RANGES
1. PURPOSE

Requests that the time multiplex switch (TMS) in the specified office network and timing complex (ONTC) be diagnosed.

2. FORMAT

DGN:TMS=a[,RAW][,UCL][,RPT=b][,PH=c&d][,TLP][,HELPER=e][,GROW];

3. EXPLANATION OF MESSAGE

GROW = Allows access to growth equipment.
RAW  = Print raw test failure data.
TLP  = Print the ordered suspected pack list if a test fails.
UCL  = Print all test results unconditionally rather than just printing the first failing test.
a   = TMS side.
b   = Number of times the diagnostic is to be repeated (RPT) (default 32,767).
c   = The number of the phase (PH) to be executed, or the lower limit in a range of phases.
d   = Upper limit in a range of phases.
e   = The number of the foundation peripheral controller (FPC) side to be used as a ‘helper’ unit for the diagnostic. If this option is not input, the standby FPC will be used.

4. SYSTEM RESPONSE

NG = No good. The request has been denied. The message syntax is valid, but the request could not be processed.
PF = Printout follows. Followed by the DGN:TMS output message.
RL = Retry later. The request cannot be executed now.

5. REFERENCES

Input Message(s):

ABT:TMS
STP:TMS

Output Message(s):
DGN: TMS

Input Appendix(es):

APP: CM–IM–REASON

Other Manual(s):
235-105-210  Routine Operations and Maintenance
235-105-220  Corrective Maintenance
DGN:TMS-B

Software Release: 5E15 and later
Command Group: CM
Application: 5
Type: Input

1. PURPOSE

Requests that the time multiplex switch (TMS) in the specified office network and timing complex (ONTC) be diagnosed. This command is not applicable in Communication Module 3 (CM3) office.

2. FORMAT

DGN:TMS=a[,RAW][,UCL][,RPT=b][,PH=c&&d][,TLP][,HELPER=e][,GROW];

3. EXPLANATION OF MESSAGE

GROW = Allows access to growth equipment.
RAW = Print raw test failure data.
TLP = Print the ordered suspected pack list if a test fails.
UCL = Print all test results unconditionally rather than just printing the first failing test.
a = TMS side.
b = Number of times the diagnostic is to be repeated (RPT) (default 32,767).
c = The number of the phase (PH) to be executed, or the lower limit in a range of phases.
d = Upper limit in a range of phases.
e = The number of the foundation peripheral controller (FPC) side to be used as a ‘helper’ unit for the diagnostic. If this option is not input, the standby FPC will be used.

4. SYSTEM RESPONSE

NG = No good. The request has been denied. The message syntax is valid, but the request could not be processed.
PF = Printout follows. Followed by the DGN:TMS output message.
RL = Retry later. The request cannot be executed now.

5. REFERENCES

Input Message(s):

ABT:TMS
STP:TMS

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Page 1
**DGN:TMSFP**

**Software Release:** 5E16(2) and later  
**Command Group:** CM  
**Application:** 5  
**Type:** Input

1. **PURPOSE**

Requests diagnostics for the time multiplexed switch (TMS) fabric pair (TMSFP) on the specified office network and timing complex (ONTC). Completion of this input message leaves the unit in the out-of-service (OOS) state.

If the unit is not OOS, the system will first remove the unit conditionally.

2. **FORMAT**

   DGN:TMSFP=a-b,[TMSLNK=c[&&d]][,RAW][,UCL][,RPT=[e]][,PH=[f[&&g]]][,TLP][,GROW];

3. **EXPLANATION OF MESSAGE**

   - **GROW** = Allows access to growth equipment.
   - **RAW** = Print raw test failure data.
   - **TLP** = Print the ordered suspected pack list if a test fails.
   - **UCL** = Continue to print all test results unconditionally rather than just printing the first failing test.
   - **a** = ONTC side that the TMSFP is on.
   - **b** = TMS fabric pair number.
   - **c** = TMS link number to start diagnostic from. Used only with diagnostic phases 4 and 5. If it's the only range limit specified then it's the only TMS link to be diagnosed. If neither range limit specified then the whole range of 4-371 is implied.
   - **d** = Ending number of the TMSLNK range to be diagnosed.
   - **e** = The number of times the test is to be repeated (RPT). If 'e' is not specified, the test will be repeated 32,767 times.
   - **f** = The number of the phase (PH) to be executed, or the lower limit in a range of phases.
   - **g** = Upper limit in a range of phases.

4. **SYSTEM RESPONSE**

   - **NG** = No good. The request has been denied. The message syntax is valid, but the request could not be processed. Refer to the APP:CM-IM-REASON appendix in the Appendixes section of the Input Messages manual for a list of possible reasons for denying the request.
   - **PF** = Printout follows. A DGN:TMSFP output message will follow in response to the request.
   - **RL** = Retry later. The request cannot be executed now due to unavailable system resources.
5. REFERENCES

Input Message(s):

ABT: TMSFP
OP: CFGSTAT
OP: DMQ–CM–SM
STP: TMSFP

Output Message(s):

DGN: TMSFP
OP: CFGSTAT
OP: DMQ–CM

Input Appendix(es):

APP: CM–IM–REASON

Other Manual(s):
235-105-210 Routine Operations and Maintenance
235-105-220 Corrective Maintenance

MCC Display Page(s):
1212 TMS FABRIC PAIR STATUS
1214 QLPS SUMMARY
1220,b TMS LINK SUMMARY (where b=TMSFP number)
DGN:TMUX

Software Release: 5E14 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Requests that diagnostics be executed on a digital networking unit - synchronous optical network (DNU-S) transmission multiplexer (TMUX).

2. FORMAT

DGN:TMUX=a-b-c-d[,PH=e[&f]][,RPT [=g]][,GROW][,RAW][,TLP][,UCL];

3. EXPLANATION OF MESSAGE

GROW = Allows access to growth equipment.
RAW = Print data from raw data test failure.
TLP = Print the ordered pack list if a test fails.
UCL = Execute and print all test failures unconditionally rather than stopping after the first test failure.

a = Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

b = DNU-S number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
c = Data group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
d = TMUX number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

 e = The number of the phase to be run, or the lower limit of a range of phases.
f = The upper limit of a range of phases to be run.
g = The number of times the diagnostic phases are to be repeated (1-32676). If variable ‘g’ is not specified, the phases will be repeated 32,767 times.

4. SYSTEM RESPONSE

NG = No good. The message form is valid, but the request conflicts with the current status.
PFF = Printout follows. The DGN:TMUX output message follows.
RL = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES
Input Message(s):

   OP : DMQ
   RST : TMUX
   STP : TMUX

Output Message(s):

   DGN : TMUX

Input Appendix(es):

   APP : RANGES

MCC Display Page(s):

   1510 (DNUS STATUS)
DGN:TTFCOM

1. PURPOSE

   Requests that a transmission test facility common (TTFCOM) circuit be diagnosed to determine whether it is in satisfactory working order.

2. FORMAT

   DGN:TTFCOM=a-b-c-d[,RAW][,UCL][,RPT[=e]][,GROW][,PH=f[&g]][,TLP];

3. EXPLANATION OF MESSAGE

   GROW = Allow access to growth equipment.
   RAW = Print raw test failure data.
   TLP = Print the ordered pack list.
   UCL = Unconditionally execute and print all test failures.
   a = Switching module number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
   b = Global digital service unit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
   c = Service group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
   d = Board number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
   e = The number of times the test is to be repeated. If 'e' is not specified, the test will be repeated 32,767 times.
   f = Diagnostic phase(s) to be performed. If 'f' is specified as a single phase, only that phase will be performed. If 'f' is specified as a range, 'f' will be the first phase in that range to be performed.
   g = The last diagnostic phase in the range between and including 'f' and 'g' to be performed.

4. SYSTEM RESPONSE

   NG = No good. The request has been denied. The message form is valid, but the request conflicts with current status.
   PF = Printout follows. The request was accepted. Followed by the DGN:TTFCOM output message.

5. REFERENCES
Output Message(s):

DGN: TTFCOM

Input Appendix(es):

APP: RANGES
DGN:TTYC
Software Release: 5E14 and later
Command Group: AM
Application: 5,3B
Type: Input

1. PURPOSE
Diagnoses the specified teletypewriter controller (TTYC).

Note: The input/output processor (IOP) must be in service before the TTYC can be diagnosed.

2. FORMAT
DGN:TTYC=a[:[,RPT=b][,RAW][,UCL][,REX|,DEX]][,PH=c[&&d]][,TLP][,CONT];

3. EXPLANATION OF MESSAGE

CONT = Includes only the specified unit (controller). Units attached to the specified unit will not be included. If the specified unit has no attached units, CONT is ignored.

DEX = Runs demand exercise phases in addition to routine exercise and normal (automatic) phases. This option will not allow special demand exercise phases that require user interaction to be run even if the range of phases specified includes such a phase.

RAW = Prints the diagnostic results of every phase. The default is the first five failures of each failing phase.

REX = Runs routine exercise phases in addition to the normal (automatic) phases. This option will not allow demand exercise phases to be run even if the range of phases specified includes such a phase.

TLP = Executes the trouble locating procedure (TLP) at the conclusion of the diagnostic. This process generates a list of suspected faulty equipment.

NOTE: The TLP and UCL parameters cannot be used together, as additional test results may adversely affect the TLP listing.

UCL = Unconditional execution.

NOTE: This option does not override a forced early termination.

a = Member number.

b = Number of times the diagnostic is to be repeated. The maximum is 256. The default is one.

NOTE: This option does not override early terminations. UCL should also be specified if the diagnostic terminates.

c = Specifies the first phase to be executed.

d = Specifies the last phase to be executed.
4. SYSTEM RESPONSE

PF = Printout follows. Followed by the DGN:TTCY output message.

5. REFERENCES

Input Message(s):

OP : DMQ
RMV : TTYC
RST : TTYC
STOP : DMQ
STP : DMQ

Output Message(s):

ANALY : TLPFILE
DGN : TTYC
OP : DMQ-CM
OP : DMQ-SM

Other Manual(s):
235-105-220 Corrective Maintenance
DGN:TUCHBD

Software Release: 5E14 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Requests that a trunk unit channel board (TUCHBD) be diagnosed to determine whether it is in satisfactory working order.

2. FORMAT

DGN:TUCHBD=a-b-c-d[,RAW][,UCL][,RPT[=e]][,GROW][,PH=f&&g][,TLP];

3. EXPLANATION OF MESSAGE

GROW = Allow access to growth equipment.
RAW = Print raw test failure data.
TLP = Print the ordered pack list.
UCL = Unconditionally execute and print all test failures.
a = Switching module number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
b = Trunk unit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
c = Service group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
d = Channel board number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
e = The number of times the test is to be repeated. If 'e' is not specified, the test will be repeated 32,767 times.
f = Diagnostic phase(s) to be performed. If 'f' is specified as a single phase, only that phase will be performed. If 'f' is specified as a range, 'f' will be the first phase in that range to be performed.
g = The last diagnostic phase in the range between and including 'f' and 'g' to be performed.

4. SYSTEM RESPONSE

NG = No good. The request has been denied. The message form is valid, but the request conflicts with current status.
PF = Printout follows. The request was accepted. Followed by the DGN:TUCHBD output message.

5. REFERENCES

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Output Message(s):

   DGN : TUCHBD

Input Appendix(es):

   APP : RANGES
1. PURPOSE

Requests that a universal conference (UCONF) circuit board be diagnosed to determine whether it is in satisfactory working order.

2. FORMAT

DGN:UCONF=a-b-c-d[,RAW][,UCL][,RPT[=e]][,GROW][,PH=f[&g]][,TLP];

3. EXPLANATION OF MESSAGE

GROW = Allow access to growth equipment.
RAW = Print raw test failure data.
TLP = Print the ordered pack list.
UCL = Unconditionally execute and print all test failures.
a = Switching module number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
b = Global digital service unit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
c = Service group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
d = Digital service circuit unit board number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
e = The number of times the test is to be repeated. If 'e' is not specified, the test will be repeated 32,767 times.
f = Diagnostic phase(s) to be performed. If 'f' is specified as a single phase, only that phase will be performed. If 'f' is specified as a range, 'f' will be the first phase in that range to be performed.
g = The last diagnostic phase in the range between and including 'f' and 'g' to be performed.

4. SYSTEM RESPONSE

NG = No good. The request has been denied. The message form is valid, but the request conflicts with current status.
PF = Printout follows. The request was accepted. Followed by the DGN:UCONF output message.

5. REFERENCES
Output Message(s):
  DGN : UCONF

Input Appendix(es):
  APP : RANGES
DGN:UTD

Software Release: 5E14 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE
 Requests that a universal tone decoder (UTD) board be diagnosed to determine if it is in satisfactory working order.

2. FORMAT

DGN:UTD=a-b-c-d[,RAW][,UCL][,RPT[=e]][,GROW][,PH=f[&g]][,TLP];

3. EXPLANATION OF MESSAGE

GROW = Allow access to growth equipment.
RAW = Print raw test failure data.
TLP = Print the ordered pack list.
UCL = Unconditionally execute and print all test failures.

a = Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
b = Local digital service unit (DSU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
c = Service group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
d = DSU board position number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
e = The number of times the test is to be repeated. If 'e' is not specified, the test will be repeated 32,767 times.
f = Diagnostic phase(s) to be performed. If 'f' is specified as a single phase, only that phase will be performed. If 'f' is specified as a range, 'f' will be the first phase in that range to be performed.
g = The last diagnostic phase in the range between and including 'f' and 'g' to be performed.

4. SYSTEM RESPONSE

NG = No good. Input request not valid.
PF = Printout follows. Followed by the DGN:UTD output message.

5. REFERENCES

Output Message(s):
DGN:UTG

Software Release: 5E14 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Requests that a universal tone generator (UTG) board be diagnosed to determine if it is in satisfactory working order.

2. FORMAT

DGN:UTG=a-b-c-d[,RAW][,UCL][,RPT[=e]][,GROW][,PH=f[&g]][,TLP];

3. EXPLANATION OF MESSAGE

GROW = Allow access to growth equipment.
RAW = Print raw test failure data.
TLP = Print the ordered pack list.
UCL = Unconditionally execute and print all test failures.
a = Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
b = Local digital service unit (DSU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
c = Service group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
d = DSU board position number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
e = The number of times the test is to be repeated. If 'e' is not specified, the test will be repeated 32,767 times.
f = Diagnostic phase(s) to be performed. If 'f' is specified as a single phase, only that phase will be performed. If 'f' is specified as a range, 'f' will be the first phase in that range to be performed.
g = The last diagnostic phase in the range between and including 'f' and 'g' to be performed.

4. SYSTEM RESPONSE

NG = No good. The request has been denied. The message form is valid, but the request conflicts with current status.
PF = Printout follows. The request was accepted. Followed by the DGN:UTG output message.

5. REFERENCES
Output Message(s):

DGN : UTG

Input Appendix(es):

APP : RANGES
24. DISC
DISC:WSLINE

Software Release: 5E14 and later
Command Group: TRKLN
Application: 5
Type: Input

1. PURPOSE

Requests that the line that is associated with the specified trunk and line work station (TLWS) test position (TP) be disconnected. The association was accomplished earlier using a CONN:WSLINE or CONN:WSIC input message. If tests are ongoing, they are automatically cancelled.

2. FORMAT

DISC:WSLINE,TP=a;

3. EXPLANATION OF MESSAGE

a = TLWS TP number.

4. SYSTEM RESPONSE

NG = No good. Refer to the APP:TLWS appendix in the Appendixes section of the Output Messages manual for an explanation of TLWS error responses.

OK = Good. The line was released.

5. REFERENCES

Input Message(s):

CONN:WSIC
CONN:WSLINE
SET:WSPOS

Output Appendix(es):

APP:TLWS

Other Manual(s):

235-100-125 System Description
235-105-110 System Maintenance Requirements and Tools
235-105-220 Corrective Maintenance

MCC Display Page(s):

160 (TRUNK & LINE MAINT)
DISC:WSPHONE

Software Release: 5E14 and later
Command Group: TRKLN
Application: 5
Type: Input

1. PURPOSE

Requests that the trunk and line work station (TLWS) talk-and-monitor (T&M) phone be disconnected from the indicated test position (TP). A TLWS TP must have already been selected using the SET:WSPOS input message.

2. FORMAT

DISC:WSPHONE,TP=a;

3. EXPLANATION OF MESSAGE

a = TLWS TP number.

4. SYSTEM RESPONSE

NG = No good. Refer to the APP:TLWS appendix in the Appendixes section of the Output Messages manual for an explanation of TLWS error responses.

OK = Good. The T&M phone was released.

5. REFERENCES

Input Message(s):

CONN:WSPHONE
SET:WSPHONE
SET:WSPOS
TST:WSMEAS
TST:WSMET
TST:WSMTR
TST:WSSEND
TST:WSSUPV

Output Appendix(es):

APP:TLWS

Other Manual(s):

235-100-125 System Description
235-105-110 System Maintenance Requirements and Tools
235-105-220 Corrective Maintenance

MCC Display Page(s):

160 (TRUNK & LINE MAINT)
DISC:WSPORT

Software Release: 5E14 and later
Command Group: TRKLN
Application: 5
Type: Input

1. PURPOSE

Requests that the port (line or trunk) that is associated with the specified trunk and line work station (TLWS) test position (TP) be disconnected. The association was accomplished earlier using a CONN:WSLINE, CONN:WSPORT, CONN:WSTRK or CONN:WSIC input message. If tests are ongoing, they are automatically cancelled.

2. FORMAT

DISC:WSPORT,TP=a;

3. EXPLANATION OF MESSAGE

a = TLWS TP number.

4. SYSTEM RESPONSE

NG = No good. Refer to the APP:TLWS appendix in the Appendixes section of the Output Messages Manual for an explanation of TLWS error responses.
OK = Good. The port was released.

5. REFERENCES

Input Message(s):

CONN:WSIC
CONN:WSLINE
CONN:WSPORT
CONN:WSTRK
SET:WSPOS

Output Appendix(es):

APP:TLWS

Other Manual(s):
235-100-125 System Description
235-105-110 System Maintenance Requirements and Tools
235-105-220 Corrective Maintenance

MCC Display Page(s):

160 (TRUNK & LINE MAINT)
DISC:WSTRK

Software Release: 5E14 and later
Command Group: TRKLN
Application: 5
Type: Input

1. PURPOSE

Requests that the trunk that was associated with the specified trunk and line work station (TLWS) test position (TP) using an earlier CONN:WSTRK or CONN:WSIC input message be released. If tests are occurring at this TP, they are automatically cancelled.

2. FORMAT

DISC:WSTRK,TP=a;

3. EXPLANATION OF MESSAGE

a = TLWS TP number.

4. SYSTEM RESPONSE

NG = No good. Refer to the APP:TLWS appendix in the Appendixes section of the Output Messages Manual for an explanation of TLWS error responses.

OK = Good. The trunk was released.

5. REFERENCES

Input Message(s):

CONN:WSIC
CONN:WSTRK
SET:WSPOS

Output Appendix(es):

APP:TLWS

Other Manual(s):

235-100-125 System Description
235-105-110 System Maintenance Requirements and Tools
235-105-220 Corrective Maintenance

MCC Display Page(s):

160 (TRUNK & LINE MAINT)
25. DUMP
DUMP:ACSR

Software Release: 5E14 and later
Command Group: RCV
Application: 5
Type: Input

1. PURPOSE

Requests that automatic customer station rearrangement (ACSR) recent change log and error data files be printed.

2. FORMAT

DUMP:ACSR:DATA=a,FILE=b,DEVICE=c;

3. EXPLANATION OF MESSAGE

a = Data file type. Valid value(s):
   LOG = ACSR recent change log file.
   ERR = ACSR recent change error data file.

b = Age of log or error data files in days. Valid value(s):
   1 = Current day's log or error data file.
   2 = Yesterday's log or error data file.
   3 = Log and error data files from two days ago.
   ALL = All log or error data files.

c = Output device name. Valid value(s):
   TERM = Output device is the input terminal.
   ROP = Output device is the receive-only printer (ROP).
   ALL = Output devices are the ROP and the input terminal.

4. SYSTEM RESPONSE

PF = Printout follows. Followed by the DUMP:ACSR output message.

5. REFERENCES

Output Message(s):

DUMP:ACSR
DUMP:ADDR
Software Release: 5E14 and later
Command Group: SFTUTIL
Application: 5,3B
Type: Input

1. PURPOSE

Requests that the contents of a specified range of virtual addresses in the administrative module (AM) main memory be dumped as an action associated with a breakpoint.

The range is specified by two addresses or an address and a length. The length defaults to a value of one. If only one address is given, indirect addressing may be specified. In this case, the first offset listed is added to the contents of the given address and the result is interpreted as a virtual address. The number of offsets specified defines the length of the chain of virtual addresses to be accessed in this way before accessing the desired range of dump locations. For example, a single offset with value zero uses the virtual address found in the location specified in the DUMP:ADDR input message for the dump location.

2. FORMAT

DUMP:ADDR={a&&b|a}[,OFF=c] [, {L=d|NL=e}] [:WORD]!

3. EXPLANATION OF MESSAGE

WORD = Indicates that all addresses, offsets, and lengths are to be interpreted as words, including addresses derived in address chains. If this option is omitted, they are assumed to be byte values.

a = Virtual address or the lower limit of a range of virtual addresses of the dump in decimal, binary, octal, or hexadecimal notation. Assumed to be a byte address unless the WORD option is used.

b = Upper limit of a range of virtual addresses. Assumed to be a byte address unless the WORD option is used.

c = A single offset or list of up to five offsets. Omission of the keyword implies no indirect addressing. Offsets are in bytes unless the WORD option is used.

d = The length of the dump, assumed to be in bytes unless the WORD option is used. Maximum 128 bytes or 32 words. Default is one, unless a range is explicitly specified. The actual range of addresses dumped will be rounded out to word address boundaries.

e = Indicator that the operation should use the locations beginning 'e' lower than the calculated address and ending at the address. The locations are used in ascending order. Usage and limitation are the same as for the L option.

4. SYSTEM RESPONSE

IP = In progress. The input message has been added to the WHEN action list.

RL = Retry later. The system is in an overload condition.

5. REFERENCES

Input Message(s):
DUMP: PID
DUMP: PMEM
DUMP: REG
DUMP: UID
WHEN: PID
WHEN: UID

Output Message(s):

DUMP: ADDR
DUMP:ATDTA-A

Software Release: 5E14 - 5E17(1)
Command Group: N/A
Application: 5
Type: Input

1. PURPOSE

Dumps the entries in the automatic trunk test scheduler (ATTS) schedule database which relate to a specified ATTS test schedule.

2. FORMAT

DUMP:ATDTA [,SCHED=a] [,WEEK=b] [,DAY=c] [,TGID=d];

3. EXPLANATION OF MESSAGE

a = The number of the ATTS test schedule whose test session entries are to be output (1 - 20).
b = The number of the ATTS schedule week for which test session entries are to be selected for dumping (1 - 8).
c = The number of the day in the week for which test session entries are to be selected for dumping (1 - 7, where 1 corresponds to Monday).
d = The number of the trunk group associated with test session entries which are to be selected for dumping (1 - maximum TGs per office).

• If neither variables 'b', 'c', nor 'd' are specified, then all test session entries for the specified ATTS test schedule are dumped.
• If variable 'd' is specified, then only test session entries related to the specified trunk group are dumped, according to the setting of parameters 'b' and 'c'.
• If variable 'b' is specified and variable 'c' is not, then only test session entries related to any day of the given schedule week are dumped.
• If variable 'c' is specified and variable 'b' is not, then only test session entries related to the given day of the schedule week which is currently in effect are dumped.
• If variables 'b' and 'c' are both specified, then only test session entries related to the given day of the given schedule week are dumped.

4. SYSTEM RESPONSE

PF = Printout follows. The request has been accepted. Followed by the DUMP:ATDTA output message.

5. REFERENCES

Input Message(s):

DUMP:ATLOG
DUMP:ATPRM
OP:ATTS
ST:ATTS
Output Message(s):

DUMP:ATDTA
DUMP:ATLOG
DUMP:ATPRM
OP:ATTS
REPT:ATTS
ST:ATTS
STP:ATTS

Other Manual(s):
Where 'x' is the release-specific version of the specified manual.
235-100-125  System Description
235-105-210  Routine Operations and Maintenance
235-118-251  Recent Change Procedures
235-118-25x  Recent Change Reference

RC/V View(s):
14.9  ATTS TEST SESSION SCHEDULE DATA
14.10  ATTS TEST SCHEDULE PARAMETER
DUMP:ATDTA-B

**Software Release:** 5E18(1) and later
**Command Group:** N/A
**Application:** 5
**Type:** Input

1. PURPOSE

Dumps the entries in the automatic trunk test scheduler (ATTS) schedule database which relate to a specified ATTS test schedule.

2. FORMAT

DUMP:ATDTA[,SCHED=a][,WEEK=b][,DAY=c][,TGID=d];

3. EXPLANATION OF MESSAGE

- **a** = The number of the ATTS test schedule whose test session entries are to be output (1 - 20).
- **b** = The number of the ATTS schedule week for which test session entries are to be selected for dumping (1 - 8).
- **c** = The number of the day in the week for which test session entries are to be selected for dumping (1 - 7, where 1 corresponds to Monday).
- **d** = The number of the trunk group associated with test session entries which are to be selected for dumping (1 - maximum TGs per office).
  - If neither variables 'b', 'c', nor 'd' are specified, then all test session entries for the specified ATTS test schedule are dumped.
  - If variable 'd' is specified, then only test session entries related to the specified trunk group are dumped, according to the setting of parameters 'b' and 'c'.
  - If variable 'b' is specified and variable 'c' is not, then only test session entries related to any day of the given schedule week are dumped.
  - If variable 'c' is specified and variable 'b' is not, then only test session entries related to the given day of the schedule week which is currently in effect are dumped.
  - If variables 'b' and 'c' are both specified, then only test session entries related to the given day of the given schedule week are dumped.

4. SYSTEM RESPONSE

- **PF** = Printout follows. The request has been accepted. Followed by the DUMP:ATDTA output message.
- **RL** = Retry later. May also include:
  - **DATA NOT DEFINED** = Indicate no ATTS TEST SESSION SCHEDULE DATA defined in form RATSDTA. Prior to define the data in RATSDTA, schedule parameters must be predefined in form ATTS TEST SESSION SCHEDULE PARAMETERS (RATSPRM).

5. REFERENCES
Input Message(s):
DUMP:ATLOG
DUMP:ATPRM
OP:ATTS
ST:ATTS
STP:ATTS

Output Message(s):
DUMP:ATDTA
DUMP:ATLOG
DUMP:ATPRM
OP:ATTS
REPT:ATTS
ST:ATTS
STP:ATTS

Other Manual(s):
Where 'x' is the release-specific version of the specified manual.
235-100-125 System Description
235-105-210 Routine Operations and Maintenance
235-118-251 Recent Change Procedures
235-118-25x Recent Change Reference

RC/V View(s):
14.9 ATTS TEST SESSION SCHEDULE DATA
14.10 ATTS TEST SCHEDULE PARAMETER
DUMP:ATLOG

**Software Release:** 5E14 and later
**Command Group:** N/A
**Application:** 5
**Type:** Input

1. **PURPOSE**

Retrieves scheduled trunk test data from automatic trunk test scheduler (ATTS) log files. Searching can be limited to: trunk tests defined in a particular schedule, or across all schedules (variable 'a'); trunk tests executed on a particular schedule week, or during any schedule week (variable 'b'); trunk tests executed on a particular schedule day, or during any schedule day (variable 'c'); trunk test data for members of a particular trunk group or for members of all trunk groups (variable 'd'); and/or passed, failed, aborted, non-passing, or all trunk test results (variable 'e').

2. **FORMAT**

DUMP:ATLOG[,SCHED=a][,WEEK=b][,DAY=c][,TGID=d][,STAT=e];

3. **EXPLANATION OF MESSAGE**

- **a** = Schedule number (1 - 20). If this parameter is defaulted, all schedules are searched for test data conforming to the other parameters.
- **b** = Schedule week number (1 - 8).
- **c** = Schedule day number (1 - 7).
- **d** = Trunk group identifier (1 - maximum TGs per office).
- **e** = Status type. Valid value(s):
  - **A** = Print aborted trunk test results only.
  - **F** = Print failed trunk test results only. This is the default value.
  - **FA** = Print failed or aborted (that is, non-passing) trunk test results only.
  - **FU** = Print failed and/or unavailable trunk test results only.
  - **P** = Print passed trunk test results only.
  - **PFA** = Print all trunk test results.

**NOTE:** If STAT is not specified on the command line, the default is to print failed trunk test results only. If there are no failed trunk test results, the following message will be seen "NO TEST RESULTS MATCH INPUT PARAMETERS".

4. **SYSTEM RESPONSE**

ATTS retrieves the requested information from the log files and outputs the formatted test result data in tabular form, if any logged test result data matches the input parameters.
NG = No good. Valid value(s):
    - INSUFFICIENT RESOURCES

PF = Printout follows. The request has been accepted. Followed by the DUMP:ATLOG output message.

5. REFERENCES

Input Message(s):

DUMP:ATDTA
DUMP:ATLOG
DUMP:ATPRM
OP:ATTS
ST:ATTS
STP:ATTS

Output Message(s):

DUMP:ATDTA
DUMP:ATLOG
DUMP:ATPRM
OP:ATTS
REPT:ATTS
ST:ATTS
STP:ATTS

Other Manual(s):

Where 'x' is the release-specific version of the specified manual.

235-118-251  Recent Change Procedures
235-118-25x  Recent Change Reference
235-105-210  Routine Operations and Maintenance
235-100-125  System Description

RC/V View(s):

14.9 (ATTS TEST SESSION SCHEDULE DATA)
14.10 (ATTS TEST SCHEDULE PARAMETER)
DUMP:ATPRM

Software Release: 5E14 and later
Command Group: N/A
Application: 5
Type: Input

1. PURPOSE

Dumps the entries in the automatic trunk test scheduler (ATTS) parameters database which relate to a specified ATTS test schedule.

2. FORMAT

DUMP:ATPRM, SCHED=a;

3. EXPLANATION OF MESSAGE

a = The number of the ATTS test schedule whose parameters are to be dumped (1 - 20).

4. SYSTEM RESPONSE

PF = Printout follows. The request has been accepted. Followed by the DUMP:ATPRM output message.

5. REFERENCES

Input Message(s):

DUMP:ATDTA
DUMP:ATLOG
DUMP:ATPRM
OP:ATTS
ST:ATTS
STP:ATTS

Output Message(s):

DUMP:ATDTA
DUMP:ATLOG
DUMP:ATPRM
OP:ATTS
REPT:ATTS
ST:ATTS
STP:ATTS

Other Manual(s):

Where (x) is the release-specific version of the specified manual.
235-118-251 Recent Change Procedures
235-118-25x Recent Change Reference
235-105-210 Routine Operations and Maintenance
235-100-125 System Description
RC/V View(s):

14.9 (ATTS TEST SESSION SCHEDULE DATA)
14.10 (ATTS TEST SCHEDULE PARAMETER)
DUMP:BKTAPE

Software Release: 5E14 and later
Command Group: N/A
Application: 5,3B
Type: Input

1. PURPOSE
Displays the contents of the multi-volume digital audio tape (DAT) logical volume headers and optionally provides an estimate of how full the tape is.

2. FORMAT
DUMP:BKTAPE:TD="a" [,TPSIZE=b];

3. EXPLANATION OF MESSAGE
   a = Device filename of the DAT drive. Refer to the User Guidelines for definitions and examples of tape device names.
   b = Length in meters of the DAT mounted on the specified drive. The length is used to estimate how full the tape is. Valid lengths are 30 through 90 meters.

4. SYSTEM RESPONSE
PF = Printout follows. Followed by a DUMP:BKTAPE output message.

5. REFERENCES
Input Message(s):
   COPY:BKDISHK
   COPY:BKTAPE
Output Message(s):
   DUMP:BKTAPE

   DUMP:BKTAPE
DUMP:CACHE
Software Release: 5E14 and later
Command Group: SFTUTIL
Application: 5,3B
Type: Input

1. PURPOSE

Dumps the contents of the offline cache into administrative module (AM) processor main memory. The portions of cache dumped are the ones which map to the kernel and interrupt stacks. The input message will not be accepted if the other control unit (CU) is in the standby state.

The cache (1Kbytes) is placed at virtual address 0x80000 for the interrupt stack portion and at virtual address 0x6a0000 for the kernel stack. In the case of the kernel stack, the address dumped to will not correspond to the actual start of the kernel stack. This offset is necessary to preserve the portions of the kernel stack which are not resident in the cache but which do map to the address range used for the cache kernel stack. Whether a particular stack entry is in cache or main memory is dependent upon whether the hardware is present and enabled, and the state of the ISTK bit in the program status word (PSW) of the running process. The reconstruction of the kernel stack (both cache and main memory) is left to the user.

2. FORMAT

DUMP:CACHE;

3. EXPLANATION OF MESSAGE

No variables.

4. SYSTEM RESPONSE

NG = No good. Could not access or reserve the unit control block (UCB) record of the mate CU, or the mate CU was not out of service.

PF = Printout follows. Followed by the DUMP:CACHE output message.

5. REFERENCES

Output Message(s):

DUMP:CACHE
DUMP:F-ALL

Software Release: 5E14 and later
Command Group: FHADM
Application: 5,3B
Type: Input

1. PURPOSE

Requests that the contents of an ASCII file be dumped.

2. FORMAT

DUMP:FILE, ALL, FN="a" [, OPL=b ];

3. EXPLANATION OF MESSAGE

a = Pathname of the file.

NOTE: Dumps of directories and/or non-ASCII files may produce unpredictable output.

b = Number of segments output, specified in decimal. Default is 10 segments. Maximum number of segments is 999. Each segment has a maximum size of 1000 bytes or 20 lines.

4. SYSTEM RESPONSE

PF = Printout follows. Followed by the DUMP:F-ALL output message.

5. REFERENCES

Input Message(s):

DUMP:F-PARTL

Output Message(s):

DUMP:F-ALL
DUMP:F-PARTL

Other Manual(s):
235-105-210 Routine Operations and Maintenance

MCC Display Page(s):

(CRAFT FM 01)
DUMP:F-FORMAT

Software Release: 5E14 and later
Command Group: FHADM
Application: 5,3B
Type: Input

1. PURPOSE

Dumps the contents of a file in the specified format. If no format is given, the dump is printed in octal.

2. FORMAT

DUMP:FILE,FORMAT, FN="a" [,b] [,OPL=c];

3. EXPLANATION OF MESSAGE

   a = Pathname of the file. The pathname is a list of the names of each directory leading to the file, and
      ends with the name of the specific file. Each name begins with a slash, and the entire pathname is
      enclosed in quotation marks. For example, "usr/a1/ssw/test" means that /usr/a1/ssw/ represents the
      list of directory names and /test represents the file name.

   b = Specifies the output format (default is octal). Valid value(s):
      C = Interprets bytes in ASCII notation.
      D = Interprets words in decimal notation.
      O = Interprets words in octal notation.
      X = Interprets words in hexadecimal notation.

   c = Number of segments output, specified in decimal. Refer to the APP:RANGES appendix in the
      Appendixes section of the Input Messages manual. Default is 10 segments. Each segment has a
      maximum size of 1000 bytes or 20 lines.

4. SYSTEM RESPONSE

PF = Printout follows. Followed by the DUMP:F-FORMAT output message.

5. REFERENCES

Input Message(s):

DUMP:F-ALL
DUMP:F-PARTL

Output Message(s):

DUMP:F-ALL
DUMP:F-FORMAT
DUMP:F-PARTL

Input Appendix(es):

APP:RANGES
DUMP:F-PARTL

Software Release: 5E14 and later
Command Group: FHADM
Application: 5,3B
Type: Input

1. PURPOSE

Prints one or more lines of an American standard code for information interchange (ASCII) file.

NOTE: Specifying a non-ASCII file may produce unpredictable output.

2. FORMAT

DUMP:FILE,PARTL,FN="a",LINE=b[&c];

3. EXPLANATION OF MESSAGE

a = Pathname of the file.

b = Line number to be printed or first line of a range, specified in decimal. If the line number specified (limited to 1 through 131072) is larger than the number of lines in the file, the last line of the file is assumed.

c = Last line number of a range (limited to 1 through 131072). If larger then the number of lines in the file, the last line of the file is assumed.

4. SYSTEM RESPONSE

PF = Printout follows. Followed by the DUMP:F-PARTL output message.

5. REFERENCES

Input Message(s):

DUMP : F-ALL

Output Message(s):

DUMP : F-ALL
DUMP : F-FORMAT
DUMP : F-PARTL

Other Manual(s):
235-105-210 Routine Operations and Maintenance

MCC Display Page(s):

(CRAFT FM 01)
DUMP:KERN

Software Release: 5E14 and later
Command Group: SFTUTIL
Application: 5,3B
Type: Input

1. PURPOSE

Requests that the contents of a specified range of virtual addresses in the administrative module (AM) kernel be dumped as an immediate action.

The range is specified by two addresses or an address and a length. The length defaults to a value of 1. If only one address is given, indirect addressing may be specified. In this case, the first offset listed is added to the content of the given address and the result is interpreted as a virtual address. The number of offsets specified defines the length of the chain of virtual addresses to be accessed in this way before accessing the desired range of dump locations. For example, a single offset with value 0 uses the virtual address found in the location specified in the DUMP:KERN message for the dump location.

2. FORMAT

DUMP:KERN={a&&b|a[,OFF=c][,{L=d|NL=e}];

3. EXPLANATION OF MESSAGE

a = Virtual byte address of the dump or the lower limit of a range of virtual byte addresses, in decimal, octal, or hexadecimal.

b = Upper limit of a range of virtual byte addresses of the dump.

c = A single offset or list of up to 5 offsets. Omission of the keyword implies no indirect addressing.

d = The length of the dump, assumed to be in bytes. The maximum is 128 bytes. The default is 1, unless a range is explicitly specified. The actual range of addresses to be dumped will be rounded out to word address boundaries.

e = Indicator that the operation should use the locations beginning 'e' lower than the calculated address and ending at the address. The locations are used in ascending order. Usage and limitations are the same as for the 'd' option.

4. SYSTEM RESPONSE

IP = In progress. The message has been added to the WHEN action list.

PF = Printout follows.

RL = Retry later. The system is in an overload condition.

5. REFERENCES

Input Message(s):

DUMP:PID
DUMP:PMEM
DUMP: REG
DUMP: UID
WHEN: PID
WHEN: UID

Output Message(s):
DUMP: ADDR
DUMP: KERN
WHEN: PID
WHEN: UID
DUMP:MHD-BLOCK

Software Release: 5E14 and later
Command Group: FHADM
Application: 5,3B
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Dumps the contents of a specified single disk block or a range of blocks, in hexadecimal. One disk block contains 512 bytes.

The moving head disk (MHD) does not have to be in the active state for this request to work.

WARNING: Do not input this request at the same time as another request for the same MHD, because errors due to resource limitations may occur.

2. FORMAT

DUMP:MHD=a:BLOCK=b[&c] [,DEST={ROP |"d"}];

3. EXPLANATION OF MESSAGE

DEST = Destination of the output. A maximum of five disk blocks can be directed to the ROP by a single input request. Default is the inputting teletypewriter (TTY).

a = Member number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

b = Disk block offset from the start of the disk, specified in decimal. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual. May be the first block of a range of blocks. Block 0 is the first block of a disk.

c = Last block of a range of blocks. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

d = Pathname of a file to receive the data. There is no limit on the number of disk blocks that can be directed to a file by a single input request.

4. SYSTEM RESPONSE

PF = Printout follows. Followed by the DUMP:MHD-BLOCK output message.

5. REFERENCES

Output Message(s):

DUMP:MHD-BLOCK

Input Appendix(es):
DUMP:MHD-DEFECT

Software Release: 5E14 and later
Command Group: FHADM
Application: 5,3B
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

WARNING: Do not input this request at the same time as another DUMP:MHD or VFY:MHD request because errors may occur.

Dumps defect management information for a moving head disk (MHD).

This message is used to read the defect table from an MHD. The tables specify the location of media defects. This information is used by the MHD's controller to map around defective areas on the media.

- This message should only be used for disk drives that support defect management otherwise the input message will abort.
- The MHD does not have to be in the active state to execute this message.

If no options are specified, the combined (COMB) defect tables will be output.

2. FORMAT

DUMP:MHD=a:DEFECT[:FN="b"|{[,COMB][,MFGR]|,ALL}];

3. EXPLANATION OF MESSAGE

a = MHD member number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

b = Full pathname that specifies the file to which the MFGR defect table will be written.

For a storage module drive (SMD) MHD, the file will contain the manufacturer's defect table data in a format that can be used in a LOAD:MHD-DEFECT input message.

For a small computer system interface (SCSI) MHD, the contents of the file is purely informational and cannot be used as input to the LOAD:MHD-DEFECT input message.

COMB = Requests the combined defect table.

For an SMD MHD, this table represents the defect list currently being used by the MHD's controller to map around the defects. The COMB defect table can be updated by using the INIT:MHD input message with the NEW option. The update copies the current MFGR defect table to the COMB defect table.

For a SCSI MHD, this table represents the GROWN defect list and contains only those defects added by the user. This list, in conjunction with the PRIMARY defect list, is used by the MHD's controller to map around media defects.
MFGR = Requests the manufacturer's defect table.

For an SMD MHD, this table represents the original defects and defects added by the user. This table is used to update the COMB defect table.

For a SCSI MHD, this table represents the PRIMARY defect list and contains only the original defects. This list in conjunction with the GROWN defect list, is used by the MHD's controller to map around media defects.

ALL = Requests both COMB and MFGR defect tables.

4. SYSTEM RESPONSE

PF = Printout follows. Followed by the DUMP:MHD-DEFECT output message.

5. REFERENCES

Input Message(s):

INIT:MHD
LOAD:MHD
VFY:MHD

Output Message(s):

DUMP:MHD-DEFECT
LOAD:MHD-DEFECT

Input Appendix(es):

APP:RANGES

MCC Display Page(s):

(DISK FILE SYSTEM ACCESS)
DUMP:MHD-VTOC

Software Release: 5E14 and later
Command Group: FHADM
Application: 5,3B
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

WARNING: Do not input this request at the same time as a VFY:MHD, DUMP:MHD-BLOCK, DUMP:MHD-DEFECT or another DUMP:MHD-VTOC request, because errors may occur.

Formats and prints the contents of a disk pack's volume table of contents (VTOC). The output will only appear on the receive-only printer (ROP). The moving head disk (MHD) does not have to be in the active state for this input message to work.

2. FORMAT

DUMP:MHD=a:VTOC[,SORT={B|P}];

3. EXPLANATION OF MESSAGE

SORT = Specifies the sort algorithm to be used in formatting the output data. Valid value(s):
B = Sort by ascending disk block addresses (default).
P = Sort by ascending logical partition numbers.

Note: Disk packs used in the *UNIX*® RTR operating system must have a VTOC starting at block number zero.

a = Member number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

PF = Printout follows. Followed by the DUMP:MHD-VTOC output message.

5. REFERENCES

Input Message(s):

DUMP : MHD-BLOCK
DUMP : MHD-DEFECT
VFY : MHD

Output Message(s):

DUMP : MHD-VTOC
Input Appendix(es):

APP : RANGES
DUMP:NC-A

Software Release: 5E14 only
Command Group: CM
Application: 5
Type: Input

1. PURPOSE

Requests a dump of the control and communication buffer, control link receiver/transmitter, and status of the network clock (NC).

2. FORMAT

DUMP:NC=a;

3. EXPLANATION OF MESSAGE

a = Side of the office network and timing complex (ONTC) that the NC is on. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

NG = No good. The request has been denied. The message syntax is valid, but the request could not be processed. Refer to the APP:CM-IM-REASON appendix in the Appendixes section of the Input Messages manual for a list of possible reasons for denying the request.

PF = Printout follows.

RL = Retry later. The request cannot be executed now because the communication module (CM) deferred maintenance queue (DMQ) is full.

5. REFERENCES

Output Message(s):

DUMP:NC

Input Appendix(es):

APP:CM-IM-REASON
APP:RANGES
DUMP:NC-B

Software Release: 5E15 and later
Command Group: CM
Application: 5
Type: Input

1. PURPOSE

Requests a dump of information related to the network clock model 2 (NC2) or model 3 (NC3).

2. FORMAT

DUMP:NC=a;

3. EXPLANATION OF MESSAGE

a = Side of the office network and timing complex (ONTC) that the NC is on. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

NG = No good. The request has been denied. The message syntax is valid, but the request could not be processed. Refer to the APP:CM-IM-REASON appendix in the Appendixes section of the Input Messages manual for a list of possible reasons for denying the request.

PF = Printout follows.

RL = Retry later. The request cannot be executed now because the communication module (CM) deferred maintenance queue (DMQ) is full.

5. REFERENCES

Output Message(s):

DUMP:NC
DUMP:NC3

Input Appendix(es):

APP:CM-IM-REASON
APP:RANGES
DUMP:PID

Software Release: 5E14 and later
Command Group: SFTUTIL
Application: 5,3B
Type: Input

1. PURPOSE

Dumps the contents of the specified range of virtual addresses in administrative module (AM) main memory in the address space of the process with the specified process identifier. This message cannot be used as an action associated with a breakpoint. The range is specified by two addresses or as one address and a length. The length defaults to a value of 1.

If only one address is given, indirect addressing may be specified. In this case, the first offset listed is added to the value of the given address and the result is interpreted as another address. The number of offsets specified defines the length of the chain of virtual addresses to be accessed in this way before accessing the desired range of dump locations. For example, a single offset with value 0 uses the virtual address found in the location specified in the DUMP:PID input message for the dump location.

2. FORMAT

DUMP:PID=a,ADDR={b&&c|b\[,OFF=d\][,{L=e|NL=f}]}[:WORD];

3. EXPLANATION OF MESSAGE

WORD = Indicates that all addresses, offsets, and lengths are to be interpreted in terms of words including addresses derived in address chains. If this option is omitted, they are assumed to be byte values.

a = Process ID of the target process.

b = Starting virtual address of the dump in decimal, octal, or hexadecimal notation. Assumed to be a byte address unless the WORD option is used.

c = Ending virtual address of the dump. Assumed to be a byte address unless the WORD option is used.

d = A single offset or list of up to five offsets. Omission of the keyword implies no indirect addressing. Offsets are in bytes unless the WORD option is used.

e = The length of the dump, assumed to be in bytes unless the WORD option is used. Default=1, unless a range is explicitly specified. The actual range of addresses to be dumped will be rounded out to word address boundaries.

f = Used to indicate that the operation should use the locations beginning 'e' lower than the calculated address and ending at the address. The locations are used in ascending order. Usage and limitations are the same as for the L option.

4. SYSTEM RESPONSE

NG = No good. The PID is for a process for which dumps are not permitted.

PF = Printout follows. Followed by the DUMP:PID output message.

RL = Retry later. The system is in an overload condition or completing the previous OP:UMEM or
OP:UMEM:MCH message.

5. REFERENCES

Input Message(s):

DUMP:ADDR
DUMP:PMEM
DUMP:REG
DUMP:UID
OP:ST-PROC

Output Message(s):

DUMP:PID

Input Appendix(es):

APP:RANGES
**DUMP:PMEM**

**Software Release:** 5E14 and later  
**Command Group:** SFTUTIL  
**Application:** 5,3B  
**Type:** Input

### 1. PURPOSE

Dumps the contents of a specified range of physical addresses in main memory.

The range is specified by two addresses or by one address and an optional byte length count. The default length is 4 bytes.

The output will contain formatted fullwords. If the addresses specified did not describe a set of fullwords, the addresses will be rounded out to fullword boundaries. For example, physical memory addresses X'4041-X'405D (in hexadecimal) would be treated as hexadecimal numbers X'4040-X'405F.

This message may be used either as an immediate input message or in the action list of a WHEN.

### 2. FORMAT

\[
\text{DUMP:PMEM} = \{a \& b | a \{, (L=c|NL=d)} \} \{!|;\}
\]

### 3. EXPLANATION OF MESSAGE

- **a** = Starting (if \( L \) is used) or ending (if \( NL \) is used) physical address dump in decimal, octal, or hexadecimal notation. Value will be rounded down to a fullword address.

- **b** = Ending physical address for dump in decimal, octal, or hexadecimal notation. Value will be rounded up to the next fullword boundary.

- **c** = Indicator that the ending address should be calculated by adding the byte length 'c' to the starting address 'a' and then rounding up to the next fullword boundary.

- **d** = Byte length used to calculate the starting address. The byte length 'd' is subtracted from the ending address 'a' and then rounded down to a fullword boundary. The address 'a' is rounded up to the next fullword boundary and is used as the ending address.

### 4. SYSTEM RESPONSE

- **IP** = In progress. The message has been added to the WHEN action list.

- **PF** = Printout follows. Followed by the DUMP:PMEM output message.

- **RL** = Retry later. The system is in an overload condition.

### 5. REFERENCES

Input Message(s):

- DUMP:PID
- DUMP:UID
- WHEN:PID

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*Page 1*
WHEN: UID

Output Message(s):

DUMP: PMEM
DUMP:REG

Software Release: 5E14 and later
Command Group: SFTUTIL
Application: 5,3B
Type: Input

1. PURPOSE

Dumps the contents of one or more registers, either as an immediate action, or as an action associated with a breakpoint.

This message can also be used to dump an address range in main memory (by specifying a single register and offsets), but only if the message is part of an action list for a WHEN message.

If offsets are specified, the first offset is added to the contents of the specified register and the result is interpreted as a virtual address. The number of offsets specified defines the length of the chain of virtual addresses to be accessed in this way before accessing the desired range of dump locations. For example, a single offset with value uses the virtual address found in the register for the memory dump location.

Note: Offsets can only be used if the DUMP:REG message is used as an action associated with a breakpoint, since that defines a process address space for memory addressing.

2. FORMAT

DUMP:REG=a[,OFF=b][,{L|NL}=c][:WORD]{!|;}

3. EXPLANATION OF MESSAGE

a = Single register name or a list of registers to be dumped. Valid value(s):
    AP = Argument pointer AP.
    ATBBGR = Register used by the ATB miss routine to temporarily store the bi-directional gating register (BGR).
    ATBPSW = Register used by the ATB miss routine to temporarily store the program status word (PSW) register.
    ATBQ = Register used by the ATB miss routine to temporarily store the ‘q’ register.
    ATBQ = Register used by the ATB miss routine to temporarily store the 'q' register.
    ATBQ = Register used by the ATB miss routine to temporarily store the 'q' register.
    ATBQ = Register used by the ATB miss routine to temporarily store the 'q' register.
    ATBQ = Register used by the ATB miss routine to temporarily store the program status word (PSW) register.
    ATBSAR = Register used by the ATB miss routine to temporarily store the store address register (SAR) contents.
    ATBSAR = Register used by the ATB miss routine to temporarily store the store control register (SCR) contents.
    ATBSDR = Register used by the ATB miss routine to temporarily store the store data register (SDR) content.
    BGR = Bi-directional gating register.
    CAR = Channel address register.
    CDR = Channel data register.
    ERC = Error register (ER) clear.
    FP = Frame pointer FP.
    HG = Reserved register HG.
    HSR = Hardware status register.
    HSRBGC = Bi-directional gating control bits of the hardware status register (HSR).
    IM = Interrupt mask register IM.
    ISC = IS (interrupt source) register clear.
    ISS = Interrupt source (IS) register set.
<table>
<thead>
<tr>
<th>Symbol</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>PA</td>
<td>Program address register.</td>
</tr>
<tr>
<td>PPR</td>
<td>Pulse point register.</td>
</tr>
<tr>
<td>PSW</td>
<td>Program status word.</td>
</tr>
<tr>
<td>R0</td>
<td>General register R0.</td>
</tr>
<tr>
<td>R1</td>
<td>General register R1.</td>
</tr>
<tr>
<td>R2</td>
<td>General register R2.</td>
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<tr>
<td>R3</td>
<td>General register R3.</td>
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<tr>
<td>R4</td>
<td>General register R4.</td>
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<tr>
<td>R5</td>
<td>General register R5.</td>
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<tr>
<td>R7</td>
<td>General register R7.</td>
</tr>
<tr>
<td>R8</td>
<td>General register R8.</td>
</tr>
<tr>
<td>R9</td>
<td>Argument pointer AP.</td>
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<tr>
<td>R10</td>
<td>Frame pointer FP.</td>
</tr>
<tr>
<td>R11</td>
<td>Stack pointer SP.</td>
</tr>
<tr>
<td>RNULL</td>
<td>Null register.</td>
</tr>
<tr>
<td>RTC</td>
<td>Real time clock.</td>
</tr>
<tr>
<td>SBR0</td>
<td>Segment base register SBR0.</td>
</tr>
<tr>
<td>SBR1</td>
<td>Segment base register SBR1.</td>
</tr>
<tr>
<td>SBR2</td>
<td>Segment base register SBR2.</td>
</tr>
<tr>
<td>SBR3</td>
<td>Segment base register SBR3.</td>
</tr>
<tr>
<td>SBR4</td>
<td>Segment base register SBR4.</td>
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<tr>
<td>SBR5</td>
<td>Segment base register SBR5.</td>
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<tr>
<td>SBR6</td>
<td>Segment base register SBR6.</td>
</tr>
<tr>
<td>SBR7</td>
<td>Segment base register SBR7.</td>
</tr>
<tr>
<td>SCRATCH0</td>
<td>JE group temp subgroup scratch register SCRATCH0.</td>
</tr>
<tr>
<td>SCRATCH1</td>
<td>JE group temp subgroup scratch register SCRATCH1.</td>
</tr>
<tr>
<td>SDR</td>
<td>Store data register.</td>
</tr>
<tr>
<td>SP</td>
<td>Stack pointer SP.</td>
</tr>
<tr>
<td>SSRCS</td>
<td>System status register (SSR) clear.</td>
</tr>
<tr>
<td>SYSBASE</td>
<td>Beginning address of UNIX® RTR Operating System tab.</td>
</tr>
<tr>
<td>T0</td>
<td>JE group temp subgroup scratch register T0.</td>
</tr>
<tr>
<td>T1</td>
<td>JE group temp subgroup scratch register T1.</td>
</tr>
<tr>
<td>T2</td>
<td>JE group temp subgroup scratch register T2.</td>
</tr>
<tr>
<td>T3</td>
<td>JE group temp subgroup scratch register T3.</td>
</tr>
<tr>
<td>T4</td>
<td>JE group temp subgroup scratch register T4.</td>
</tr>
<tr>
<td>T5</td>
<td>JE group temp subgroup scratch register T5.</td>
</tr>
<tr>
<td>T6</td>
<td>JE group temp subgroup scratch register T6.</td>
</tr>
<tr>
<td>T7</td>
<td>JE group temp subgroup scratch register T7.</td>
</tr>
<tr>
<td>TIMERS</td>
<td>Timing circuit.</td>
</tr>
<tr>
<td>TOPIS</td>
<td>Interrupt stack pointer.</td>
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<tr>
<td>UINT0</td>
<td>Error microinterrupt hander register UINT0.</td>
</tr>
<tr>
<td>UINT1</td>
<td>Error microinterrupt hander register UINT1.</td>
</tr>
<tr>
<td>UINT2</td>
<td>Error microinterrupt hander register UINT2.</td>
</tr>
<tr>
<td>UINT3</td>
<td>Error microinterrupt hander register UINT3.</td>
</tr>
<tr>
<td>UINTER</td>
<td>Shadow error register (uint_er) loaded during an error microinterrupt.</td>
</tr>
</tbody>
</table>

**b** = Offset. Omission of the keyword implies no indirect addressing. Offsets are only allowed if one register is specified. Offsets are in bytes unless the WORD option is used.
= The length of the dump, in bytes unless the WORD option is used. The maximum is 128 bytes or
32 words for memory dumps and 4 bytes for register dumps. The default is 1 unless a range is
explicitly specified. The actual range of addresses to be dumped will be rounded out to word
address boundaries.

= Indicator that the operation should use the locations beginning 'c' lower than the calculated
address and ending at the address. The locations are used in ascending order. Usage and
limitations are the same as for the L option.

= Indicates that all addresses, offsets, and lengths are to be interpreted in terms of words, including
addresses derived in address chains. If this option is omitted they are assumed to be byte values.

4. SYSTEM RESPONSE

 IP = In progress. The message has been added to the WHEN action list.

 NG = No good. May also include:

 - BAD REG NAME

 PF = Printout follows. Followed by the DUMP:REG output message.

 RL = Retry later. The system is in an overload condition or completing a previous OP:UMEM message.

5. REFERENCES

Input Message(s):

 DUMP:ADDR
 DUMP:PID
 DUMP:PMEM
 DUMP:UID
 OP:UMEM
 WHEN:PID
 WHEN:UID

Output Message(s):

 DUMP:REG
DUMP:RUTIL

Software Release: 5E14 and later
Command Group: SFTUTIL
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Requests a dump of the memory contents of the specified address at the given common network interface (CNI) ring node. Currently a maximum length of 468 bytes is allowed for a single dump operation. All addresses are to be provided in hexadecimal. All lengths are to be specified in decimal.

Format 1 dumps the contents of memory at the address range given at the specified CNI ring node.

WARNING: Incorrect use of this input message may interrupt operation of a node on the CNI ring or the whole CNI ring.

Format 2 dumps the contents of memory from the given address for the specified length.

2. FORMAT

[1] DUMP:RUTIL=a-b,AP:ADDR=c-d;

[2] DUMP:RUTIL=a-b,AP:ADDR=c,\{L=e|NL=f\}[:WORD]

3. EXPLANATION OF MESSAGE

ADDR = Address.

AP = Attached processor.

WORD = If specified, 'e' and 'f' are the number of four-byte words to dump, otherwise they are the number of bytes to dump.

a = Group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

b = Member number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

c = Start address of the dump in hexadecimal.

d = End address of the dump in hexadecimal.

e = Length of the dump in decimal where 'c' is the beginning of the address dump.

f = Length of the dump in decimal where 'c' is the end address of the dump; the start address is calculated by using the end address minus the total number of bytes to dump.

4. SYSTEM RESPONSE
PF = Printout follows. Followed by the DUMP:RUTIL output message.

5. REFERENCES

Input Message(s):

ALW:RUTIL
ALW:RUTILFLAG
CLR:RUTIL
CLR:RUTILFLAG
INH:RUTIL
INH:RUTILFLAG
LOAD:RUTIL
OP:RUTIL
OP:RUTILFLAG
WHEN:RUTIL

Output Message(s):

ALW:RUTIL
ALW:RUTILFLAG
CLR:RUTIL
CLR:RUTILFLAG
DUMP:RUTIL
INH:RUTIL
INH:RUTILFLAG
LOAD:RUTIL
OP:RUTIL
OP:RUTILFLAG
WHEN:RUTIL

Input Appendix(es):

APP:RANGES

Other Manual(s):

235-105-110   System Maintenance Requirements and Tools
DUMP:SMEAS
Software Release: 5E14 and later
Command Group: CCS
Application: 5
Type: Input

1. PURPOSE

Requests a dump of the common channel interoffice signaling (CCIS) signaling measurements (SMEAS) from history files.

2. FORMAT

DUMP:SMEAS=a[-a]:HIST=b:{SLK=c-d[&e-f]|NODE=c-d[&e-f]|CHN=g[&h]
|LS=i[j]|CLUSTER=k[l]}[:DEST=m];

3. EXPLANATION OF MESSAGE

a = Measurement identification. Refer to the References section of this message.

b = History file name (as it appears in /no5text/cni/meas). Valid value(s):
C30M = Current 30-minute data file.
CDAY = Current day data file.
CHRIM = Current hour data file.
L15M = Last 15-minute data file.
L30M = Last 30-minute data file.
LDAY = Last day data file.
LHRM = Last hour data file.
LPM = Last period measurement structure.

c = Group number or lower limit of a range of group numbers of signaling links (SLKs) or nodes.

d = Member number or a lower limit of a range of member numbers of SLKs or nodes.

e = Upper limit of a range of group numbers.

f = Upper limit of a range of member numbers.

g = Channel number (CHN) or lower limit of a range of channel numbers.

h = Upper limit of a range of channel numbers.

i = Link set (LS) or lower limit of a range of link set numbers.

j = Upper limit of a range of link set numbers.

k = Cluster or lower limit of a range of clusters.

l = Upper limit of a range of clusters.

m = Destination class. The 'destination number to output device' cross-reference can be found by using the OP:OUTCLS input message.
4. SYSTEM RESPONSE

PF = Printout follows. Followed by the DUMP:SMEAS output message.

5. REFERENCES

Input Message(s):

OP:OUTCLS

Output Message(s):

DUMP:SMEAS

Other Manual(s):

Where (x) is the release-specific version of the specified manual.

235-118-21x Recent Change Procedures - Menu Mode
235-190-120 Common Channel Signaling Service Features
DUMP:SMMAP

Software Release: 5E14 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Requests that the variable sections of switching module (SM) memory be dumped. The start and end addresses of ODD ranges, real time billing memory, standalone billing memory, and any peripheral image which is loaded in the SM, are given in the output.

2. FORMAT

\texttt{DUMP:SMMAP, SM=a;}

3. EXPLANATION OF MESSAGE

\texttt{a} = SM number.

4. SYSTEM RESPONSE

\texttt{NG} = No good. Request not initiated due to bad syntax or invalid SM specified.

\texttt{PF} = Printout follows. Followed by the DUMP:SMMAP output message.

5. REFERENCES

Output Message(s):

\texttt{DUMP:SMMAP}
DUMP:TMS-A

Software Release: 5E14 only
Command Group: CM
Application: 5
Type: Input

1. PURPOSE

Requests a dump of the time multiplexed switch (TMS) error source registers (ESRs).

2. FORMAT

DUMP:TMS=a;

3. EXPLANATION OF MESSAGE

a = Side of the office network and timing complex (ONTC) that the TMS is on.

4. SYSTEM RESPONSE

NG = No good. The request has been denied. The message syntax is valid, but the request could not be processed. Refer to the APP:CM-IM-REASON appendix in the Appendixes section of the Input Messages manual for a list of possible reasons for denying the request.

PF = Printout follows.

RL = Retry later. The request cannot be executed now because the communication module (CM) deferred maintenance queue (DMQ) is full.

5. REFERENCES

Output Message(s):

DUMP:TMS

Input Appendix(es):

APP:CM–IM–REASON
DUMP:TMS-B
Software Release: 5E15 - 5E16(1)
Command Group: CM
Application: 5
Type: Input

1. PURPOSE
Requests a dump of the time multiplexed switch (TMS) error source registers (ESRs).

2. FORMAT
DUMP:TMS=a;

3. EXPLANATION OF MESSAGE
a = Side of the office network and timing complex (ONTC) that the TMS is on.

4. SYSTEM RESPONSE
NG = No good. The request has been denied. The message syntax is valid, but the request could not
be processed. Refer to the APP:CM-IM-REASON appendix in the Appendixes section of the Input
Messages manual for a list of possible reasons for denying the request.
PF = Printout follows.
RL = Retry later. The request cannot be executed now because the communication module (CM)
deferred maintenance queue (DMQ) is full.

5. REFERENCES
Output Message(s):
DUMP:TMS

Input Appendix(es):
APP:CM-IM-REASON
DUMP:TMS-C

- **Software Release**: 5E16(2) and later
- **Command Group**: CM
- **Application**: 5
- **Type**: Input

1. **PURPOSE**

Requests a dump of the time multiplexed switch (TMS) error source registers (ESRs) and related information.

2. **FORMAT**

   DUMP:TMS=a[,TMSFP=b];

3. **EXPLANATION OF MESSAGE**

   - **a** = Side of the office network and timing complex (ONTC) that the TMS is on.
   - **b** = The TMS fabric pair (TMSFP) number for which information should be dumped. This field is only valid for CM3 offices, and will default to 0 if not specified. In a CM3 office with multiple TMSFPs, a separate DUMP:TMS command must be entered for each TMSFP in order to obtain data for the entire TMS.

4. **SYSTEM RESPONSE**

   - **NG** = No good. The request has been denied. The message syntax is valid, but the request could not be processed. Refer to the APP:CM-IM-REASON appendix in the Appendixes section of the Input Messages manual for a list of possible reasons for denying the request.
   - **PF** = Printout follows.
   - **RL** = Retry later. The request cannot be executed now because the communication module (CM) deferred maintenance queue (DMQ) is full.

5. **REFERENCES**

   - **Output Message(s):**
     
     DUMP:TMS

   - **Input Appendix(es):**
     
     APP:CM-IM-REASON
DUMP:UID

Software Release: 5E14 and later
Command Group: SFTUTIL
Application: 5,3B
Type: Input

1. PURPOSE

Dumps the contents of a specified range of virtual addresses in administrative module (AM) main memory in the address space of the process with the specified utility identifier. This message cannot be used as an action associated with a breakpoint.

The range is specified by two addresses or by one address and a length. The length defaults to a value of 1.

If only one address is given, indirect addressing may be specified. In this case, the first offset is added to the value of the given address and the result is interpreted as a virtual address. The number of offsets specified defines the length of the chain of virtual addresses to be accessed in this way before accessing the desired range of dump locations. For example, a single offset with value 0 uses the virtual address found in the location specified in the DUMP:UID message for the dump location.

2. FORMAT

DUMP:UID=a,ADDR={b&&c|b[,OFF=d][,\{L=e|NL=f\}]}[:WORD];

3. EXPLANATION OF MESSAGE

WORD = Indicates that all addresses, offsets, and lengths are to be interpreted in terms of words including addresses derived in address chains. If this option is omitted they are assumed to be byte values.

a = Utility ID number of the target process.

b = Starting virtual address of the dump in decimal, binary, octal, or hexadecimal notation. Assumed to be a byte address unless the WORD option is used.

c = Ending virtual address of dump. Assumed to be a byte address unless the WORD option is used.

d = Offset. Omission of the keyword implies no indirect addressing. Offsets are in bytes unless the WORD option is used.

e = The length of the dump, in bytes unless the WORD option is used. The maximum is 128 bytes or 32 words. The default is 1, unless a range is explicitly specified. The actual range of addresses to be dumped will be rounded out to word address boundaries.

f = Indicator that the operation should use the locations beginning 'f' lower than the calculated address and ending at the address. The locations are used in ascending order. Usage and limitations are the same as for the 'e' option.

4. SYSTEM RESPONSE

NG = No good. The UID is for a process for which dumps are not permitted.

PF = Printout follows. Followed by the DUMP:UID output message.

RL = Retry later. The system is in an overload condition or completing a previous OP:UMEM message.
?A = Action field or command code contains an error. It may mean that the command code was incorrectly typed or that a field delimiter was omitted. May also include:
  INVALID KEYWORD = Message not allowed in a WHEN action list.

?I = General syntax error. May also include:
  EXTRA KEYWORD (UID) = UID is not valid in a WHEN action list.
  INCONSISTENT DATA (ADDR) = Address range must be in ascending order.
  INPUT ERROR (OFF COUNT) = Too many offsets listed.
  RANGE ERROR (L or NL) = Length specified is too long or zero.
  RANGE ERROR (UID) = Utility ID is out of range.

5. REFERENCES

Input Message(s):

  DUMP:ADDR
  DUMP:PID
  DUMP:PMEM
  DUMP:REG
  OP:UMEM

Output Message(s):

  DUMP:UID
1. PURPOSE

Requests that the contents of one or more sequential memory locations in the specified communications module processor (CMP) be dumped.

This message may be used together with any of the other CMP generic utility input messages (refer to the input message listed in the REFERENCE section). If this message is used together with other generic utility messages, the END:UT-CMP input message may be used to signal the end of the series of messages. Format 2 requests that a function trace be performed on the specified CMP. This input message can only be used within a (non-timed) WHEN clause.

WARNING: The user is responsible for any effects on system operation that result from the use of this input message. Know the effects of the message before using it.

2. FORMAT

[1] DUMP:UT:CMP=a, {MATE|PRIM} [,DIS][,EA][,L=b],
   {ADDR=c|REG=d|REGS|UVAR=e|GVAR="f"|SYMIDX=g} [,INDIR=h]
   [,OFF=i[-i][-i]]{!|;}


3. EXPLANATION OF MESSAGE

DIS = Dump the data in a disassembled format.

EA = Dump the effective address of the specified field instead of the contents.

MATE = Dump the contents of the standby CMP's memory starting at the final calculated address.

PRIM = Dump the contents of the active CMP's memory starting at the final calculated address.

REGS = Dump data from all registers. If the data is dumped outside a WHEN clause, a dummy set of registers is used.

a = CMP number.

b = Length in bytes of the dump (1-32767) outside a WHEN breakpoint. Inside a WHEN breakpoint, the limit for output buffer is 2000, although UT will dump around 1200 bytes storing header information in the remaining bytes. Default is 4 bytes for UVAR and REG unless REG is the status register which defaults to 2 bytes, 1 byte for ADDR, GVAR and SYMIDX.

c = Absolute address of location to start the dump or the starting point for indirect addressing.

d = Name of a specific register (address registers A0-A7, data registers D0-D7, program counter PC,
or status register SR) whose data is to be dumped. If the data is dumped outside of a WHEN
clause, a dummy set of registers is used.

e = Number of the utility variable UVAR (0-14) whose data is to be dumped.

f = Symbolic name of the global variable or function to be used to determine a starting address. The
name is entered as a string of up to 15 characters, enclosed in double quotation marks. If the
symbol name is greater than 15 characters the symbol index number 'g' must be used to enter this
input message using symbolic access. The global variable's symbol index number can be
determined by using the DUMP:UT-SYMID input message.

g = Symbol index number of this global variable. The symbol index can be determined for this
processor by using the DUMP:UT-SYMID input message.

h = The number of levels of indirection to be calculated by generic utilities (range is 0-3) (default is 0).

i = The offsets, in bytes, at each level of indirection (range is 0-65535) (default is 0). However, offsets
greater than 32767 will be treated as negative offsets. One offset can be specified per each level of
indirection. Maximum number of offsets is 3.

4. SYSTEM RESPONSE

Refer to the APP:UT-IM-REASON appendix in the Appendixes section of the Input Messages manual.

5. REFERENCES

Input Message(s):

ALW:UT-CMP
CLR:UT-CMP
COPY:UT-CMP
DUMP:UT-SYMID
ELSE:UT-CMP
END:UT-CMP
END:UT-SM
EXC:UT-CMP
IF:UT-CMP
IF:UT-CMP-ENDIF
INH:UT-CMP
LOAD:UT-CMP
OP:UT-CMP
WHEN:UT-CMP

Output Message(s):

DUMP:UT-CMP
REPT:STACK-TRACE

Input Appendix(es):

APP:UT-IM-REASON

Other Manual(s):
DUMP:UT-CMP-B

Software Release: 5E15 only
Command Group: SFTUTIL
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Requests that the contents of one or more sequential memory locations in the specified communications module processor (CMP) be dumped.

This message may be used together with any of the other CMP generic utility input messages (see the input message listed in the Reference section).

If this message is used together with other generic utility messages, the END:UT-CMP input message may be used to signal the end of the series of messages.

Format 2 requests that a function trace be performed on the specified CMP. This input message can only be used within a (non-timed) WHEN clause.

WARNING: The user is responsible for any effects on system operation that result from the use of this input message. Know the effects of the message before using it.

2. FORMAT

   . . .(ADDR=c|REG=d|REGS|UVAR=e|GVAR="f"|SYMIDX=g) . . .
   . . .[,INDIR=h] [,OFF=i[-i][-i]] {!|;}


3. EXPLANATION OF MESSAGE

DIS
   = Dump the data in a disassembled format.

EA
   = Dump the effective address of the specified field instead of the contents.

MATE
   = Dump the contents of the standby CMP's memory starting at the final calculated address.

PRIM
   = Dump the contents of the active CMP's memory starting at the final calculated address.

REGS
   = Dump data from all registers. If the data is dumped outside a WHEN clause, a dummy set of registers is used.

a
   = CMP number.

b
   = Length in bytes of the dump (1-8064). The full range is only available outside a WHEN breakpoint. Inside a WHEN breakpoint, the limit for output buffer is 2000, although UT will dump around 1500 bytes storing header information in the remaining bytes. Default is 4 bytes for UVAR and REG.
unless REG is the status register which defaults to 2 bytes, 1 byte for ADDR, GVAR and SYMIDX.

c = Absolute address of location to start the dump or the starting point for indirect addressing.

d = Name of a specific register whose data is to be dumped.

If switch CM complex is a model 3, valid value(s):
CR = Condition register.
CTR = Count register.
EIMR = External interrupt mask register.
GPR0 = General purpose register.
GPR2-GPR31 = General purpose registers.
LR = Link register.
MSR = Machine state register.
PC = Program counter. (from module processor).
SMIMR = System management interrupt mask register (from module processor).
SP (also known as GPR1) = General purpose register.
XER = Integer exception.

If switch CM complex is model 2 or earlier, valid value(s):
A0-A5 = Address registers.
A6 = The frame pointer FP.
A7 = The stack pointer SP.
D0-D7 = Data registers.
PC = Program counter.
SR = Status register.

If the data is dumped outside of a WHEN clause, a dummy set of registers is used.

e = Number of the utility variable UVAR (0-14) whose data is to be dumped.

f = Symbolic name of the global variable or function to be used to determine a starting address. The name is entered as a string of up to 15 characters, enclosed in double quotation marks. If the symbol name is greater than 15 characters, the symbol index number 'g' must be used to enter this input message using symbolic access. The global variable's symbol index number can be determined by using the DUMP:UT-SYMID input message.

If the data is dumped outside of a WHEN clause, a dummy set of registers is used.

g = Symbol index number of this global variable. The symbol index can be determined for this processor by using the DUMP:UT-SYMID input message.

h = The number of levels of indirection to be calculated by generic utilities (0-3, default=0).

i = The offsets, in bytes, at each level of indirection (0-65535, default=0). However, offsets greater than 32767 will be treated as negative offsets. One offset can be specified per each level of indirection. Maximum number of offsets is 3.

4. SYSTEM RESPONSE

Refer to the APP:UT-IM-REASON appendix in the Appendixes section of the Input Messages manual.

5. REFERENCES
Input Message(s):

ALW: UT-CMP
CLR: UT-CMP
COPY: UT-CMP
DUMP: UT-SYMID
ELSE: UT-CMP
END: UT-CMP
END: UT-SM
EXC: UT-CMP
IF: UT-CMP
IF: UT-CMP-ENDIF
INH: UT-CMP
LOAD: UT-CMP
OP: UT-CMP
WHEN: UT-CMP

Output Message(s):

DUMP: UT-CMP
REPT: STACK-TRACE

Input Appendix(es):

APP: UT-IM-REASON

Other Manual(s):
235-105-110 System Maintenance Requirements and Tools
DUMP:UT-CMP-C

Software Release: 5E16(1) and later
Command Group: SFTUTIL
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Requests that the contents of one or more sequential memory locations in the specified communications module processor (CMP) be dumped.

This message may be used together with any of the other CMP generic utility input messages (see the input message listed in the Reference section).

If this message is used together with other generic utility messages, the END:UT-CMP input message may be used to signal the end of the series of messages.

Format 2 requests that a function trace be performed on the specified CMP. This input message can only be used within a (non-timed) WHEN clause.

WARNING: The user is responsible for any effects on system operation that result from the use of this input message. Know the effects of the message before using it.

2. FORMAT

[1] DUMP:UT:CMP=a, (MATE|PRIM), [DIS], [EA], [L=b], . . .
   . . .(ADDR=c|REG=d|REGS|UVAR=e|GVAR="f"|SYMIDX=g), [INDIR=h]. . .
   . . .[,OFF=i][-i][-i]{!|;}


3. EXPLANATION OF MESSAGE

DIS = Dump the data in a disassembled format.
EA = Dump the effective address of the specified field instead of the contents.
MATE = Dump the contents of the standby CMP's memory starting at the final calculated address.
PRIM = Dump the contents of the active CMP's memory starting at the final calculated address.
REGS = Dump data from all registers. If the data is dumped outside a WHEN clause, a dummy set of registers is used.

a = CMP number.
b = Length in bytes of the dump (1-8064). The full range is only available outside a WHEN breakpoint. Inside a WHEN breakpoint, the limit for output buffer is 2000, although UT will dump around 1500 bytes storing header information in the remaining bytes. Default is 4 bytes for UVAR and REG.
unless REG is the status register which defaults to 2 bytes, 1 byte for ADDR, GVAR and SYMIDX.

c = Absolute address of location to start the dump or the starting point for indirect addressing.

d = Name of a specific register whose data is to be dumped.

If switch CM complex is a model 3, valid value(s):
CR = Condition register.
CTR = Count register.
EIMR = External interrupt mask register (from module processor).
GPR0 = General purpose register.
GPR2–GPR31 = General purpose registers.
LR = Link register.
MSR = Machine state register.
PC = Program counter.
SMIMR = System management interrupt mask register (from module processor).
SP (also known as GPR1) = General purpose register.
XER = Integer exception.

If switch CM complex is model 2 or earlier, valid value(s):
A0–A5 = Address registers.
A6 = The frame pointer (FP).
A7 = Stack pointer (SP).
D0–D7 = Data registers.
PC = Program counter.
SR = Status register.

If the data is dumped outside of a WHEN clause, a dummy set of registers is used.

e = Number of the utility variable UVAR (0-14) whose data is to be dumped.

f = Symbolic name of the global variable or function to be used to determine a starting address. The name is entered as a string of up to 15 characters, enclosed in double quotation marks. If the symbol name is greater than 15 characters, the symbol index number 'g' must be used to enter this input message using symbolic access. The global variable’s symbol index number can be determined by using the DUMP:UT-SYMID input message.

g = Symbol index number of this global variable. The symbol index can be determined for this processor by using the DUMP:UT-SYMID input message.

h = The number of levels of indirection to be calculated by generic utilities (0-3, default=0).

i = The offsets, in bytes, at each level of indirection (0-65535, default=0). However, offsets greater than 32767 will be treated as negative offsets. One offset can be specified per each level of indirection. Maximum number of offsets is 3.

4. SYSTEM RESPONSE

Refer to the APP:UT-IM-REASON appendix in the Appendixes section of the Input Messages manual.

5. REFERENCES
Input Message(s):

ALW:UT-CMP
CLR:UT-CMP
COPY:UT-CMP
DUMP:UT-SYMID
ELSE:UT-CMP
END:UT-CMP
END:UT-SM
EXC:UT-CMP
IF:UT-CMP
IF:UT-CMP-ENDIF
INH:UT-CMP
LOAD:UT-CMP
OP:UT-CMP
WHEN:UT-CMP

Output Message(s):

DUMP:UT-CMP
REPT:STACK-TRACE

Input Appendix(es):

APP:UT-IM-REASON

Other Manual(s):
235-105-110  System Maintenance Requirements and Tools
DUMP:UT-CMPMSG-A

Software Release: 5E14 only
Command Group: SFTUTIL
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Requests that the contents of one or more sequential memory locations in the specified communication module processor message handler (CMPMSG) be dumped.

WARNING: The user takes responsibility for any effects on system operation that result from the use of this input message. Know the effects of the message before using it.

2. FORMAT

DUMP:UT:CMPMSG=a-b[,(DIS|EA)],(ADDR=c|GVAR="d"|SYMIDX=e)
[,]L=f[,]INDIR=g[,]OFF=h[-h][-h];

3. EXPLANATION OF MESSAGE

DIS = Dump the data in a disassembled format.

EA = Dump the effective address of the specified field instead of the contents.

a = Message switch side. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

b = CMPMSG number.

c = Absolute address of location to start the dump (unless indirection has been specified).

d = Symbolic name of the global variable or function to be used to determine a starting address. The name is entered as a string of up to 15 characters, enclosed in double quotation marks. If the symbol name is greater than 15 characters the symbol index number 'e' must be used to enter this input message using symbolic access. The global variable's symbol index number can be determined by using the DUMP:UT-SYMID input message.

e = Symbol index number of this global variable. The symbol index can be determined for this processor by using the DUMP:UT-SYMID input message.

f = Length in bytes of the dump (default is 1). Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

 g = The number of levels of indirection to be calculated by generic utilities (default is 0). Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

h = The offsets, in bytes, at each level of indirection. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual. Offsets greater than 32767 will be treated as negative offsets. One offset can be specified per each level of indirection. Default is 0.
4. SYSTEM RESPONSE

Refer to the APP:UT-IM-REASON appendix in the Appendixes section of the Input Messages manual.

5. REFERENCES

Input Message(s):

DUMP:UT-SYMID
LOAD:UT-CMPMSG

Output Message(s):

DUMP:UT-CMPMSG

Input Appendix(es):

APP:RANGES
APP:UT-IM-REASON

Other Manual(s):
235-105-110  System Maintenance Requirements and Tools
DUMP:UT-CMPMSG-B

Software Release: 5E15 and later
Command Group: SFTUTIL
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Requests that the contents of one or more sequential memory locations in the specified communication module processor message handler (CMPMSG) be dumped.

WARNING: The user takes responsibility for any effects on system operation that result from the use of this input message. Know the effects of the message before using it.

NOTE: This input message is valid on processors of the communications module model 1 and 2. It will be accepted but denied on the communications module model 3. Use the DUMP:UT:MSGS AP input message for equivalent functionality on processors of the communications module model 3.

2. FORMAT

DUMP:UT:CMPMSG=a-b[{,DIS|,EA}],{ADDR=c|GVAR="d"|SYMIDX=e}[,L=f][,INDIR=g][,OFF=h[-h][h]]

3. EXPLANATION OF MESSAGE

DIS = Dump the data in a disassembled format.

EA = Dump the effective address of the specified field instead of the contents.

a = Message switch side. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

b = CMPMSG number.

c = Absolute address of location to start the dump (unless indirection has been specified).

d = Symbolic name of the global variable or function to be used to determine a starting address. The name is entered as a string of up to 15 characters, enclosed in double quotation marks. If the symbol name is greater than 15 characters the symbol index number ’e’ must be used to enter this input message using symbolic access. The global variable’s symbol index number can be determined by using the DUMP:UT:SYMIDX input message.

e = Symbol index number of this global variable. The symbol index can be determined for this processor by using the DUMP:UT:SYMIDX input message.

f = Length in bytes of the dump (default is 1). Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

g = The number of levels of indirection to be calculated by generic utilities (default is 0). Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
= The offsets, in bytes, at each level of indirection. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual. Offsets greater than 32767 will be treated as negative offsets. One offset can be specified per each level of indirection. Default is 0.

4. SYSTEM RESPONSE

Refer to the APP:UT-IM-REASON appendix in the Appendixes section of the Input Messages manual.

5. REFERENCES

Input Message(s):

DUMP:UT-SYMID
LOAD:UT-CMPMSG

Output Message(s):

DUMP:UT-CMPMSG

Input Appendix(es):

APP:RANGES
APP:UT-IM-REASON

Other Manual(s):

235-105-110   System Maintenance Requirements and Tools
DUMP:UT-DNUS

Software Release: 5E14 and later
Command Group: Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Requests that the contents of one or more sequential memory locations in the specified digital networking unit - synchronous optical network (SONET) (DNU-S) common controller (CC) be dumped.

WARNING: The user is responsible for any effects on system operation that result from the use of this input message. Know the effects of the message before using it.

2. FORMAT

DUMP:UT-DNUS=a-b[,MATE][,DIS][,EA][,L=c],[ADDR=d|UVAR=e|GVAR="f"|SYMIDX=g][,INDIR=h][,OFF=i[-i][-i]][!|;]

3. EXPLANATION OF MESSAGE

DIS = Dump data in disassembled format.

EA = Dump the effective address of the specified field instead of the contents.

MATE = Dump the contents of the standby DNU-S CC's memory starting at the final calculated address. (Default: dump active memory.)

a = Switching module (SM) number.

b = DNU-S number.

c = Length in bytes of the dump. Maximum length is 248 bytes. Default is 4 bytes for UVAR, 1 byte for ADDR, GVAR and SYMIDX.

d = Absolute address of location to start the dump or the starting point for indirect addressing to the start of the dump.

e = Number of the utility variable (0 - 10) whose contents are to be dumped.

f = Symbolic name of the global variable or function to be used to determine a starting address. The name is entered as a string of up to 15 characters, enclosed in double quotation marks. If the symbol name is greater than 15 characters the symbol index number 'g' must be used to enter this input message using symbolic access. The global variable's symbol index number can be determined by using the DUMP:UT-SYMID input message.

g = Symbol index number of this global variable. The symbol index can be determined for this processor by using the DUMP:UT-SYMID input message.

h = Number of levels of indirection to be calculated by generic utilities (range 0-3) (default is 0).
The offset, in bytes, at each level of indirection. They can range from 0-65535. However, offsets greater than 32767 will be treated as negative offsets. One offset can be specified per each level of indirection (maximum is 3) (default is 0).

4. SYSTEM RESPONSE

Refer to the APP:UT-IM-REASON appendix in the Appendixes section of the Input Messages manual.

5. REFERENCES

Input Message(s):

DUMP:UT-SYMD
EXC:UT-DNUS
LOAD:UT-DNUS

Output Message(s):

DUMP:UT-DNUS

Input Appendix(es):

APP:UT-IM-REASON

Other Manual(s):
235-105-110 System Maintenance Requirements and Tools
DUMP:UT-FPC-A

Software Release: 5E14 only
Command Group: SFTUTIL
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Requests that the contents of one or more sequential memory location in the specified foundation peripheral controller (FPC) be dumped.

WARNING: The user is responsible for any effects on system operation that result from the use of this input message. Know the effects of the message before using it.

2. FORMAT

DUMP:UT:FPC=a[,(DIS|,EA)],{ADDR=b|IO=c|GVAR="d"|SYMIDX=e}[,L=f][,INDIR=g][,OFF=h[-h[-h]]];

3. EXPLANATION OF MESSAGE

DIS = Dump the data in a disassembled format.
EA = Dump the effective address of the specified field instead of the contents.
a = FPC number.
b = Absolute address of the location to start the dump or the starting point for indirect addressing to the start of the dump.
c = The number of the I/O port to be dumped.
d = Symbolic name of the global variable or function to be used to determine a starting address. The name is entered as a string of up to 15 characters, enclosed in double quotation marks. If the symbol name is greater than 15 characters the symbol index number ‘e’ must be used to enter this input message using symbolic access. The global variable's symbol index number can be determined by using the DUMP:UT-SYMID input message.
e = Symbol index number of this global variable. The symbol index can be determined for this processor by using the DUMP:UT-SYMID input message.
f = Length in bytes of the dump (1 - 192 bytes, default is 1).
g = The number of levels of indirection to be calculated by generic utilities (0 - 3, default is 0).
h = The offsets, in bytes, at each level of indirection (0 - 65535, default is 0). The maximum number of offsets is 3.

4. SYSTEM RESPONSE
Refer to the APP:UT-IM-REASON appendix in the Appendixes section of the Input Messages manual.

5. REFERENCES

Input Message(s):

DUMP:UT-SYMID

Output Message(s):

DUMP:UT-FPC

Input Appendix(es):

APP:UT-IM-REASON

Other Manual(s):
235-105-110 System Maintenance Requirements and Tools
DUMP:UT-FPC-B

Software Release: 5E15 and later
Command Group: SFTUTIL
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Requests that the contents of one or more sequential memory location in the specified foundation peripheral controller (FPC) be dumped.

WARNING: The user is responsible for any effects on system operation that result from the use of this input message. Know the effects of the message before using it.

NOTE: This input message is valid on processors of the communications module model 1 and 2. It will be accepted but denied on the communications module model 3. Use the DUMP:UT:MSGS AP input message for equivalent functionality on processors of the communications module model 3.

2. FORMAT

DUMP:UT:FPC=a[{,DIS|,EA}],{ADDR=b|IO=c|GVAR="d"|SYMIDX=e}[,L=f]
[,INDIR=g][,OFF=h[-h[-h[-h]]]]; 

3. EXPLANATION OF MESSAGE

DIS = Dump the data in a disassembled format.

EA = Dump the effective address of the specified field instead of the contents.

a = FPC number.

b = Absolute address of the location to start the dump or the starting point for indirect addressing to the start of the dump.

c = The number of the I/O port to be dumped.

d = Symbolic name of the global variable or function to be used to determine a starting address. The name is entered as a string of up to 15 characters, enclosed in double quotation marks. If the symbol name is greater than 15 characters the symbol index number 'e' must be used to enter this input message using symbolic access. The global variable's symbol index number can be determined by using the DUMP:UT-SYMID input message.

e = Symbol index number of this global variable. The symbol index can be determined for this processor by using the DUMP:UT-SYMID input message.

f = Length in bytes of the dump (1 - 192 bytes, default is 1).

g = The number of levels of indirection to be calculated by generic utilities (0 - 3, default is 0).

h = The offsets, in bytes, at each level of indirection (0 - 65535, default is 0). The maximum number of offsets is 3.
4. SYSTEM RESPONSE

Refer to the APP:UT-IM-REASON appendix in the Appendixes section of the Input Messages manual.

5. REFERENCES

Input Message(s):

DUMP:UT-SYMD

Output Message(s):

DUMP:UT-FPC

Input Appendix(es):

APP:UT-IM-REASON

Other Manual(s):

235-105-110  System Maintenance Requirements and Tools
DUMP:UT-IDCU

Software Release: 5E14 and later
Command Group: SFTUTIL
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Requests that the contents of one or more sequential memory locations in the specified integrated digital carrier unit (IDCU) be dumped.

WARNING: The user is responsible for any effects on system operation that result from the use of this input message. Know the effects of the message before using it.

2. FORMAT

DUMP:UT-IDCU=a-b[,MATE][,DIS][,EA][,L=c],[ADDR=d|UVAR=e|GVAR="f"|SYMIDX=g][,INDIR=h][,OFF=i[-i[-i]]];

3. EXPLANATION OF MESSAGE

DIS = Dump data in disassembled format.

EA = Dump the effective address of the specified field instead of the contents.

MATE = Dump the contents of the standby IDCU’s memory starting at the final calculated address. (Default: dump active memory.)

a = Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Output Messages manual.

b = IDCU number. Refer to the APP:RANGES appendix in the Appendixes section of the Output Messages manual.

c = Length in bytes of the dump. Maximum length is 64. Default is 4 bytes for UVAR, 1 byte for ADDR, GVAR and SYMIDX.

NOTE: The dumping and loading of the unified control interface (UCI) register area cannot overlap with the remainder of the IDCU address range (variable ‘d’).

d = Absolute address of location to start the dump or the starting point for indirect addressing to the start of the dump. The address range from h’30000332 to h’300003ff is the UCI register area.

e = Number of the utility variable whose contents are to be dumped. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

f = Symbolic name of the global variable or function to be used to determine a starting address. The name is entered as a string of up to 15 characters, enclosed in double quotation marks. If the symbol name is greater than 15 characters the symbol index number ‘g’ must be used to enter this input message using symbolic access. The global variable’s symbol index number can be determined by using the DUMP:UT-SYMID input message.
\( g \) = Symbol index number of this global variable. The symbol index can be determined for this processor by using the DUMP:UT-SYMID input message.

\( h \) = Number of levels of indirection to be calculated by generic utilities. Indirection is not allowed when dumping the UCI register area (variable 'd') (default is 0). Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

\( i \) = The offset, in bytes, at each level of indirection. They can range from 0-65535. However, offsets greater than 32767 will be treated as negative offsets. One offset can be specified per each level of indirection (maximum is 3) (default is 0).

### 4. SYSTEM RESPONSE

Refer to the APP:UT-IM-REASON appendix in the Appendixes section of the Input Messages manual.

### 5. REFERENCES

Input Message(s):

- DUMP:UT-SYMID
- EXC:UT-IDCU
- LOAD:UT-IDCU

Output Message(s):

- DUMP:UT-IDCU

Input Appendix(es):

- APP:RANGES
- APP:UT-IM-REASON
DUMP:UT-IDCULSI

Software Release: 5E14 and later
Command Group: SFTUTIL
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Requests that the contents of one or more sequential memory locations in the specified integrated digital carrier unit (IDCU) loop side interface (LSI) be dumped.

WARNING: The user is responsible for any effects on system operation that result from the use of this input message. Know the effects of the message before using it.

2. FORMAT

DUMP:UT:IDCULSI=a-b-c[,MATE][][,DIS][][,EA][][,L=d]
{,ADDR=e[,UVAR=f[,GVAR="g"[,SYMIDX=h][][,INDIR=i][][,OFF=j[-j][-j]]]]}

3. EXPLANATION OF MESSAGE

DIS = Dump data in disassembled format.
EA = Dump the effective address of the specified field instead of the contents.
MATE = Dump the contents of the standby LSI's memory starting at the final calculated address. (Default: dump active memory.)
a = Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
b = IDCU number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
c = LSI number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
d = Length in bytes of the dump. Maximum length is 64. Default is 4 bytes for UVAR, 1 byte for ADDR, GVAR and SYMIDX.

NOTE: The dumping and loading of the unified control interface (UCI) register area cannot overlap with the remainder of the IDCU LSI address range (variable 'e').
e = Absolute address of location to start the dump or the starting point for indirect addressing to the start of the dump. The address range from 0x4400 to 0x44ff is the UCI register area.
f = Number of the utility variable whose contents are to be dumped. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
g = Symbolic name of the global variable or function to be used to determine a starting address. The name is entered as a string of up to 15 characters, enclosed in double quotation marks. If the
symbol name is greater than 15 characters the symbol index number ‘h’ must be used to enter this input message using symbolic access. The global variable’s symbol index number can be determined by using the DUMP:UT-SYMID input message.

\( h \) = Symbol index number of this global variable. The symbol index can be determined for this processor by using the DUMP:UT-SYMID input message.

\( i \) = Number of levels of indirection to be calculated by generic utilities. Indirection is not allowed when dumping the UCI register area (variable ‘e’) (range is 0-3) (default is 0).

\( j \) = The offset, in bytes, at each level of indirection. They can range from 0-65535. However, offsets greater than 32767 will be treated as negative offsets. One offset can be specified per each level of indirection. Maximum number of offsets is 3. Default is 0.

4. SYSTEM RESPONSE

Refer to the APP:UT-IM-REASON appendix in the Appendixes section of the Input Messages manual.

5. REFERENCES

Input Message(s):

- DUMP:UT-SYMID
- EXC:UT-IDCULSI
- LOAD:UT-IDCULSI

Output Message(s):

- DUMP:UT-IDCULSI

Input Appendix(es):

- APP:RANGES
- APP:UT-IM-REASON

Other Manual(s):

235-105-110  System Maintenance Requirements and Tools
DUMP:UT-ISLUCC
Software Release: 5E14 and later
Command Group: SFTUTIL
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Requests that the contents of one or more sequential memory locations in the specified integrated services line unit common controller (ISLUCC) be dumped.

WARNING: The user is responsible for any effects on system operation that result from the use of this input message. Know the effects of the message before using it.

2. FORMAT

DUMP:UT-ISLUCC=a-b[,MATE][,DIS][,EA][,L=c]
{,ADDR=d|,UVAR=e|,GVAR="f"|,SYMIDX=g}[,INDIR=h][,OFF=i[-i[-i]]];

3. EXPLANATION OF MESSAGE

DIS = Dump data in disassembled format.

EA = Dump the effective address of the specified field instead of the contents.

MATE = Dump the contents of the standby ISLUCC’s memory starting at the final calculated address. (Default: dump active memory.)

a = Switching module (SM) number.

b = Line unit number.

c = Length in bytes of the dump (1 - 64). Default is 4 bytes for UVAR, 1 byte for ADDR, GVAR and SYMIDX. The dumping and loading of the unified control interface (UCI) register area cannot overlap with the remainder of the common control (CC) address range (variable 'd').

d = Absolute address of location to start the dump or the starting point for indirect addressing to the start of the dump. The address range from H'4532 to H'45ff is the UCI register area.

e = Number of the utility variable whose contents are to be dumped. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

f = Symbolic name of the global variable or function to be used to determine a starting address. The name is entered as a string of up to 15 characters, enclosed in double quotation marks. If the symbol name is greater than 15 characters the symbol index number 'g' must be used to enter this input message using symbolic access. The global variable’s symbol index number can be determined by using the DUMP:UT-SYMID input message.

g = Symbol index number of this global variable. The symbol index can be determined for this processor by using the DUMP:UT-SYMID input message.
h = Number of levels of indirection to be calculated by generic utilities. Indirection is not allowed when dumping the UCI register area (variable 'd') (range is 0-3) (default is 0).

i = The offset, in bytes, at each level of indirection (range is 0-65535) (default is 0) (maximum offsets is 3).

4. SYSTEM RESPONSE

Refer to the APP:UT-IM-REASON appendix in the Appendixes section of the Input Messages manual.

5. REFERENCES

Input Message(s):

DUMP:UT-SYMD
EXC:UT-ISLUCC
LOAD:UT-ISLUCC

Output Message(s):

DUMP:UT-ISLUCC

Input Appendix(es):

APP:RANGES
APP:UT-IM-REASON

Other Manual(s):

235-105-110  System Maintenance Requirements and Tools
DUMP:UT-MCTSI-MH

Software Release: 5E14 and later
Command Group: SFTUTIL
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Requests that the contents of one or more sequential memory locations in the specified message handler (MH) unit be dumped.

WARNING: The user is responsible for any effects on system operation that result from the use of this input message. Know the effects of the message before using it.

2. FORMAT

DUMP:UT:MCTSI=a-b,MH[,MATE][,DIS][,EA][,L=c],[ADDR=d|UVAR=e|GVAR="f"|SYMIDX=g][,INDIR=h][,OFF=i[-i][-i]][!|;]

3. EXPLANATION OF MESSAGE

DIS = Dump the data in disassembled format.
EA = Dump the effective address of the specified field instead of the contents.
MATE = Dump the contents of the standby MH's memory starting at the final calculated address. Default is active MH memory.
a = Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
b = Message handler unit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
c = Length in bytes of the dump (1-1000). Default is 4 bytes for UVAR, 1 byte for ADDR, GVAR and SYMIDX.
d = Absolute address of location to start the dump or the starting point for indirect addressing.
e = Number of the utility variable UVAR (0-10) whose data is to be dumped.
f = Symbolic name of the global variable or function to be used to determine a starting address. The name is entered as a string of up to 15 characters, enclosed in double quotation marks. If the symbol name is greater than 15 characters the symbol index number 'g' must be used to enter this input message using symbolic access. The global variable's symbol index number can be determined by using the DUMP:UT-SYMID input message.
g = Symbol index number of this global variable. The symbol index can be determined for this processor by using the DUMP:UT-SYMID input message.
h = The number of levels of indirection to be calculated by generic utilities (range is 0-3) (default is 0).
The offsets, in bytes, at each level of indirection (range is 0-65535) (default is 0). However, offsets greater than 32767 will be treated as negative offsets. One offset can be specified per each level of indirection. Maximum number of offsets is 3.

4. SYSTEM RESPONSE

Refer to the APP:UT-IM-REASON appendix in the Appendixes section of the Input Messages manual.

5. REFERENCES

Input Message(s):

DUMP:UT-SYMID
EXC:UT-MCTSI-MH
LOAD:UT-MCTSI-MH

Output Message(s):

DUMP:UT-MCTSI-MH

Input Appendix(es):

APP: RANGES
APP: UT-IM-REASON

Other Manual(s):
235-105-110 System Maintenance Requirements and Tools
DUMP:UT-MCTSI-PI-A

Software Release: 5E14 - 5E15
Command Group: SFTUTIL
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Requests that the contents of one or more sequential memory locations in the specified packet interface (PI) unit be dumped.

Format 2 requests that a function trace be performed in the specified PI unit. This input message can only be used in a WHEN input message clause.

NOTE: Format 2 is only supported on PIs of the PI2 hardware type.

WARNING: The user is responsible for any effects on system operation that result from the use of this input message. Know the effects of the message before using it.

2. FORMAT

[1] DUMP:UT:MCTSI=a-b,PI[,DIS][,EA][,L=c],{ADDR=d|UVAR=e|REG=f|REGS|GVAR="g"|SYMIDX=h][,INDIR=h][,OFF=i[-i[-i]]}{!|;}

[2] DUMP:UT:MCTSI=a-b,PI,FTRACE{!|;}

3. EXPLANATION OF MESSAGE

DIS = Dump data in disassembled format.

EA = Dump the effective address of the specified field instead of the contents.

a = Switching module (SM) number.

b = Side of the module controller/time-slot interchange (MCTSI).

c = Total length in bytes of the dump. Maximum length is 1000 bytes for PIs of PI1 type. For PIs of PI2 type the maximum length is 32767. Default is 4 bytes for UVAR, 1 byte for ADDR, GVAR and SYMIDX.

d = Absolute address of location to start the dump or the starting point for indirect addressing to the start of the dump.

e = Number of the utility variable UVAR (0-14) whose contents are to be dumped for PIs of PI2 type. For PIs of PI1 type the utility variables are (0-11).

NOTE: The REG and REGS option is only supported on PIs of the PI2 hardware type.

f = Dumps data from a specific register (address registers A1-A7, data registers D0-D7, program counter PC, or status register SR). If the data is dumped outside of a WHEN clause, a dummy set
of registers is used.

\( g \) = Symbolic name of the global variable or function to be used to determine a starting address. The name is entered as a string of up to 15 characters, enclosed in double quotation marks. If the symbol name is greater than 15 characters the symbol index number 'h' must be used to enter this input message using symbolic access. The global variable's symbol index number can be determined by using the DUMP:UT-SYMID input message.

\( h \) = Symbol index number of this global variable. The symbol index can be determined for this processor by using the DUMP:UT-SYMID input message.

\( i \) = Number of levels of indirection to be calculated by generic utilities (range is 0-3) (default is 0).

\( j \) = The offset, in bytes, at each level of indirection. (range is 0-65535) (default is 0) (maximum offsets is 3). In the PI1, offsets can range from 0-65535 in the positive direction. In the PI2, offsets can range from 0-65535. However, offsets greater than 32767 will be treated as negative offsets.

4. SYSTEM RESPONSE

Refer to the APP:UT-IM-REASON appendix in the Appendixes section of the Input Messages manual.

5. REFERENCES

Input Message(s):

- ALW:UT-MCTSI-PI
- CLR:UT-MCTSI-PI
- DUMP:UT-SYMID
- ELSE:UT-MCTSI-PI
- END:UT-MCTSI-PI
- EXC:UT-MCTSI-PI
- IF:UT-MCTSI-PI
- INH:UT-MCTSI-PI
- LOAD:UT-MCTSI-PI
- OP:UT-MCTSI-PI
- WHEN:UT-MCTSI-PI

Output Message(s):

- DUMP:UT-MCTSI-PI
- REPT:STACK-TRACE

Input Appendix(es):

- APP:UT-IM-REASON

Other Manual(s):

235-105-110 System Maintenance Requirements and Tools
DUMP:UT-MCTSI-PI-B

Software Release: 5E16(1) and later
Command Group: SFTUTIL
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Requests that the contents of one or more sequential memory locations in the specified packet interface (PI) unit be dumped.

Format 2 requests that a function trace be performed in the specified PI unit. This input message can only be used in a WHEN input message clause.

Note: Format 2 is only supported on PIs of the PI2 hardware type.

WARNING: The user is responsible for any effects on system operation that result from the use of this input message. Know the effects of the message before using it.

2. FORMAT

[1] DUMP:UT:MCTSI=a-b,PI[,DIS][,EA][,L=c],{ADDR=d|UVAR=e|REG=f|REGS|GVAR="g"|SYMIDX=h}[,INDIR=h][,OFF=i[-i][-i]][!|;]


3. EXPLANATION OF MESSAGE

DIS = Dump data in disassembled format.

EA = Dump the effective address of the specified field instead of the contents.

a = Switching module (SM) number.

b = Side of the module controller/time-slot interchange (MCTSI).

c = Total length in bytes of the dump. Maximum length is 1000 bytes.

d = Absolute address of location to start the dump or the starting point for indirect addressing to the start of the dump.

e = Number of the utility variable UVAR (0-14) whose contents are to be dumped for PIs of PI2 type. For PIs of PI1 type the utility variables are (0-11).

Note: The REG and REGS option is only supported on PIs of the PI2 hardware type.

f Dumps data from a specific register (address registers A1-A7, data registers D0-D7, program counter PC, or status register SR). If the data is dumped outside of a WHEN clause, a dummy set of registers is used.
g  = Symbolic name of the global variable or function to be used to determine a starting address. The name is entered as a string of up to 15 characters, enclosed in double quotation marks. If the symbol name is greater than 15 characters the symbol index number 'h' must be used to enter this input message using symbolic access. The global variable’s symbol index number can be determined by using the DUMP:UT-SYMID input message.

h  = Symbol index number of this global variable. The symbol index can be determined for this processor by using the DUMP:UT-SYMID input message.

i  = Number of levels of indirection to be calculated by generic utilities (range is 0-3) (default is 0).

j  = The offset, in bytes, at each level of indirection. (range is 0-65535) (default is 0) (maximum offsets is 3). In the PI1, offsets can range from 0-65535 in the positive direction. In the PI2, offsets can range from 0-65535. However, offsets greater than 32767 will be treated as negative offsets.

4. SYSTEM RESPONSE

Refer to the APP:UT-IM-REASON appendix in the Appendixes section of the Input Messages manual.

5. REFERENCES

Input Message(s):

ALW:UT-MCTSI-PI
CLR:UT-MCTSI-PI
DUMP:UT-SYMID
ELSE:UT-MCTSI-PI
END:UT-MCTSI-PI
EXC:UT-MCTSI-PI
IF:UT-MCTSI-PI
INH:UT-MCTSI-PI
LOAD:UT-MCTSI-PI
OP:UT-MCTSI-PI
WHEN:UT-MCTSI-PI

Output Message(s):

DUMP:UT-MCTSI-PI
REPT:STACK-TRACE

Input Appendix(es):

APP:UT-IM-REASON

Other Manual(s):

235-105-110   System Maintenance Requirements and Tools
DUMP:UT-MMP-A

Software Release: 5E14 only
Command Group: SFTUTIL
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Requests that the contents of one or more sequential memory locations in the specified module message processor (MMP) be dumped.

WARNING: The user is responsible for any effects on system operation that result from the use of this input message. Know the effects of the message before using it.

2. FORMAT

DUMP:UT:MMP=a-b[{,DIS|,EA}],{ADDR=c|IO=d|GVAR="e"|SYMIDX=f}[,L=g][,INDIR=h][,OFF=i[-i[-i[-i]]]];

3. EXPLANATION OF MESSAGE

**DIS** = Dump the data in a disassembled format.

**EA** = Dump the effective address of the specified field instead of the contents.

**a** = Message switch side. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

**b** = MMP number.

**c** = Absolute address of location to start the dump or the starting point for indirect addressing to the start of the dump.

**d** = The number of the I/O port to be dumped.

**e** = Symbolic name of the global variable or function to be used to determine a starting address. The name is entered as a string of up to 15 characters, enclosed in double quotation marks. If the symbol name is greater than 15 characters the symbol index number ‘f’ must be used to enter this input message using symbolic access. The global variable’s symbol index number can be determined by using the DUMP:UT-SYMID input message.

**f** = Symbol index number of this global variable. The symbol index can be determined for this processor by using the DUMP:UT-SYMID input message.

**g** = Length in bytes of dump. Maximum length is 192 bytes. Default is 1 byte.

**h** = The number of levels of indirection to be calculated by generic utilities (range is 0-3) (default is 0).

**i** = The offset, in bytes, at each level of indirection. (range is 0-65535) (default is 0) (maximum offsets is 3).
4. SYSTEM RESPONSE

Refer to the APP:UT-IM-REASON appendix in the Appendixes section of the Input Messages manual.

5. REFERENCES

Input Message(s):

DUMP : UT-SYMID
EXC : UT-MMP
LOAD : UT-MMP

Input Appendix(es):

APP : RANGES
APP : UT-IM-REASON

Other Manual(s):
235-105-110 System Maintenance Requirements and Tools
DUMP:UT-MMP-B

Software Release: 5E15 and later
Command Group: SFTUTIL
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Requests that the contents of one or more sequential memory locations in the specified module message processor (MMP) be dumped.

WARNING: The user is responsible for any effects on system operation that result from the use of this input message. Know the effects of the message before using it.

NOTE: This input message is valid on processors of the communications module model 1 and 2. It will be accepted but denied on the communications module model 3. Use the DUMP:UT:MSGS AP input message for equivalent functionality on processors of the communications module model 3.

2. FORMAT

DUMP:UT:MMP=a-b[,{DIS|,EA}],{ADDR=c|IO=d|GVAR="e"|SYMIDX=f},{,L=g},{,INDIR=h},{,OFF=i[-i[-i]]};

3. EXPLANATION OF MESSAGE

DIS = Dump the data in a disassembled format.

EA = Dump the effective address of the specified field instead of the contents.

a = Message switch side. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

b = MMP number.

c = Absolute address of location to start the dump or the starting point for indirect addressing to the start of the dump.

d = The number of the I/O port to be dumped.

e = Symbolic name of the global variable or function to be used to determine a starting address. The name is entered as a string of up to 15 characters, enclosed in double quotation marks. If the symbol name is greater than 15 characters the symbol index number 'f' must be used to enter this input message using symbolic access. The global variable’s symbol index number can be determined by using the DUMP:UT-SYMID input message.

f = Symbol index number of this global variable. The symbol index can be determined for this processor by using the DUMP:UT-SYMID input message.

g = Length in bytes of dump. Maximum length is 192 bytes. Default is 1 byte.

h = The number of levels of indirection to be calculated by generic utilities (range is 0-3) (default is 0).
i = The offset, in bytes, at each level of indirection. (range is 0-65535) (default is 0) (maximum offsets is 3).

4. SYSTEM RESPONSE

Refer to the APP:UT-IM-REASON appendix in the Appendixes section of the Input Messages manual.

5. REFERENCES

Input Message(s):

DUMP:UT-SYMID
EXC:UT-MMP
LOAD:UT-MMP

Input Appendix(es):

APP:RANGES
APP:UT-IM-REASON

Other Manual(s):

235-105-110 System Maintenance Requirements and Tools
DUMP:UT-MSGS

Software Release: 5E15 and later
Command Group: SFTUTIL
Application: 5
Type: Input

1. PURPOSE

Requests that the contents of one or more sequential memory locations in the specified message switch (MSGS) be dumped.

NOTE: This command is valid only on MSGS processors of communication Model 3.

2. FORMAT

DUMP:UT-MSGS=a,(AP|IP) [,DIS] [,EA,ADDR=b|GVAR="c"|SYMIDX=d|UVAR=e] [,L=f] [,INDIR=g] [,OFF=h[-h][-h]] ;

3. EXPLANATION OF MESSAGE

AP = Dump the contents of the MSGS application processor's memory starting at the final calculated address.

DIS = Dump the data in a disassembled format.

EA = Dump the effective address of the specified field instead of the contents.

IP = Dump the contents of the MSGS interface processor's memory starting at the final calculated address.

a = Message switch side. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

b = Absolute address of location to start the dump (unless indirection has been specified).

c = Symbolic name of the global variable or function to be used to determine a starting address. The name is entered as a string of up to 15 characters, enclosed in double quotation marks. If the symbol name is greater than 15 characters the symbol index number 'd' must be used to enter this command using symbolic access. The global variable’s symbol index number can be determined by using the DUMP:UT-SYMID input command.

d = Symbol index number of this global variable. The symbol index can be determined for this processor by using the DUMP:UT-SYMID input command.

e = Number of the utility variable UVAR (0-10) whose data is to be dumped.

f = Length in bytes of the dump (1 - 192 bytes). Default is 4 bytes for UVAR, 1 byte for ADDR, GVAR, and SYMIDX.

g = The number of levels of indirection to be calculated by generic utilities (0 - 3, default = 0).

h = The offsets, in bytes, at each level of indirection (0 - 65535). Offsets greater than 32767 will be treated as negative offsets. One offset can be specified per each level of indirection. Maximum number of offsets is 3. Default is 0.
4. SYSTEM RESPONSE

Refer to the APP:UT-IM-REASON appendix in the Appendixes section of the Input Messages manual.

5. REFERENCES

Input Message(s):

DUMP:UT-SYMD

Output Message(s):

DUMP:UT-MSG

Input Appendix(es):

APP:RANGES
APP:UT-IM-REASON

Other Manual(s):

System Maintenance Requirements and Tools
DUMP:UT-OFI

Software Release: 5E16(1) and later
Command Group: SFTUTIL
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Requests that the contents of one more sequential memory locations in the specified optical facility interface (OFI) be dumped.

This request may be used together with any of the other OFI generic utility input requests (refer to the REFERENCES section).

WARNING: The user takes responsibility for any effects on system operation that result from the use of this input request. Know the effects of the request before using it.

2. FORMAT

DUMP:UT:OFI=a-b-c-d[,DIS][,EA][,L=e],{ADDR=f|UVAR=g|GVAR="h"|SYMIDX=i}... . .[,INDIR=j][,OFF=k[-k][-k]{!|;}

3. EXPLANATION OF MESSAGE

DIS = Dump the data in a disassembled format.

EA = Dump the effective address of the specified field instead of the contents.

a = Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

b = Optical Interface Unit (OIU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

c = Protection group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

d = Side number.

e = Length in bytes of the dump. The maximum dump length for an OFI is 248. Default is 4 bytes for utility variable (UVAR), 1 byte for ADDR, GVAR and SYMIDX.

f = Absolute address of location to start the dump or the starting point for indirect addressing to the start of the dump.

g = Number of the UVAR (0 - 10) whose contents are to be dumped.

h = Symbolic name of the global variable or function to be used to determine a starting address. The name is entered as a string of up to 15 characters, enclosed in double quotation marks. If the symbol name is greater than 15 characters the symbol index number ‘\\' must be used to enter this
input request using symbolic access. The global variable’s symbol index number can be determined by using the DUMP:UT:SYMID input request.

\[ i \] = Symbolic index number of this global variable. The symbol index can be determined for this processor by using the DUMP:UT:SYMID input request.

\[ j \] = The number of levels of indirection to be calculated by generic utilities (0 - 3, default is 0).

\[ k \] = The offsets, in bytes, at each level of indirection (default is 0). One offset can be specified per each level of indirection. Maximum number of offsets is 3.

Note: Offsets can range from 0-65535. However, offsets greater than 32767 will be treated as negative offsets.

4. SYSTEM RESPONSE

Refer to the APP:UT-IM-REASON appendix in the Appendixes section of the Input Messages manual.

5. REFERENCES

Input Message(s):

DUMP:UT-SYMID
EXC:UT-OFI
LOAD:UT-OFI

Output Message(s):

DUMP:UT-OFI

Input Appendix(es):

APP:RANGES
APP:UT-IM-REASON

Other Manual(s):

235-105-110 System Maintenance Requirements and Tools
DUMP:UT-ONTC

Software Release: 5E15 and later
Command Group: SFTUTIL
Application: 5
Type: Input

1. PURPOSE

Requests that the contents of one or more sequential memory locations in the specified office network and timing complex processor (ONTC) be dumped.

NOTE: This command is valid only on ONTC processors of communication Model 3.

2. FORMAT

DUMP:UT:ONTC=a,{AP|IP}[,DIS],[,EA],[,ADD RB= b | GVAR="c" | SYMIDX=d | UVAR=e} [,L=f] [,INDIR=g] [,OFF=h [-h] [-h]] ;

3. EXPLANATION OF MESSAGE

AP = Dump the contents of the ONTC application processor's memory starting at the final calculated address.

DIS = Dump the data in a disassembled format.

EA = Dump the effective address of the specified field instead of the contents.

IP = Dump the contents of the ONTC interface processor's memory starting at the final calculated address.


b = Absolute address of location to start the dump (unless indirection has been specified).

c = Symbolic name of the global variable or function to be used to determine a starting address. The name is entered as a string of up to 15 characters, enclosed in double quotation marks. If the symbol name is greater than 15 characters the symbol index number 'd' must be used to enter this command using symbolic access. The global variable's symbol index number can be determined by using the DUMP:UT-SYMID input command.

d = Symbol index number of this global variable. The symbol index can be determined for this processor by using the DUMP:UT-SYMID input command.

e = Number of the utility variable UVAR (0-10) whose data is to be dumped.

f = Length in bytes of the dump (1 - 192 bytes). Default is 4 bytes for UVAR, 1 byte for ADDR, GVAR, and SYMIDX.

g = The number of levels of indirection to be calculated by generic utilities (0 - 3, default = 0).

h = The offsets, in bytes, at each level of indirection (0 - 65535). Offsets greater than 32767 will be treated as negative offsets. One offset can be specified per each level of indirection. Maximum number of offsets is 3. Default is 0.
4. SYSTEM RESPONSE

Refer to the APP:UT-IM-REASON appendix in the Appendixes section of the Input Messages manual.

5. REFERENCES

Input Message(s):

DUMP:UT-SYMID

Output Message(s):

DUMP:UT-ONTC

Input Appendix(es):

APP:RANGES
APP:UT-IM-REASON

Other Manual(s):

System Maintenance Requirements and Tools
1. PURPOSE

Requests that the contents of one or more sequential memory locations in the specified pump peripheral controller (PPC) be dumped.

WARNING: The user is responsible for any effects on system operation that result from the use of this input message. Know the effects of the message before using it.

2. FORMAT

DUMP:UT:PPC=a[,(DIS|EA)],{ADDR=b|IO=c|GVAR=\"d\"|SYMIDX=e} [,L=f] [,INDIR=g] [,OFF=h[-h][-h]] ;

3. EXPLANATION OF MESSAGE

DIS = Dump the data in a disassembled format.

EA = Dump the effective address of the specified field instead of the contents.

a = PPC number.

b = Absolute address of location to start the dump or the starting point for indirect addressing to the start of the dump.

c = The number of the I/O port to be dumped.

d = Symbolic name of the global variable or function to be used to determine a starting address. The name is entered as a string of up to 15 characters, enclosed in double quotation marks. If the symbol name is greater than 15 characters the symbol index number ‘e’ must be used to enter this input message using symbolic access. The global variable’s symbol index number can be determined by using the DUMP:UT-SYMID input message.

e = Symbol index number of this global variable. The symbol index can be determined for this processor by using the DUMP:UT-SYMID input message.

f = Length in bytes of the dump (range is 1-192) (default is 1).

g = The number of levels of indirection to be calculated by generic utilities (range is 0-3) (default is 0).

h = The offset, in bytes, at each level of indirection. (range is 0-65535) (default is 0) (maximum offsets is 3).

4. SYSTEM RESPONSE
Refer to the APP:UT-IM-REASON appendix in the Appendixes section of the Input Messages manual.

5. REFERENCES

Input Message(s):

DUMP:UT-SYMID

Output Message(s):

EXC:UT-PPC
LOAD:UT-PPC

Input Appendix(es):

APP:UT-IM-REASON

Other Manual(s):
235-105-110 System Maintenance Requirements and Tools
DUMP:UT-PPC-B

Software Release: 5E15 and later
Command Group: SFTUTIL
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Requests that the contents of one or more sequential memory locations in the specified pump peripheral controller (PPC) be dumped.

WARNING: The user is responsible for any effects on system operation that result from the use of this input message. Know the effects of the message before using it.

NOTE: This input message is valid on processors of the communications module model 1 and 2. It will be accepted but denied on the communications module model 3. Use the DUMP:UT:MSGS AP input message for equivalent functionality on processors of the communications module model 3.

2. FORMAT

DUMP:UT:PPC=a[,{DIS|,EA}],{ADDR=b|IO=c|GVAR="d"|SYMIDX=e},{,L=f},{,INDIR=g},{,OFF=h[-h][-h]};

3. EXPLANATION OF MESSAGE

DIS = Dump the data in a disassembled format.
EA = Dump the effective address of the specified field instead of the contents.
a = PPC number.
b = Absolute address of location to start the dump or the starting point for indirect addressing to the start of the dump.
c = The number of the I/O port to be dumped.
d = Symbolic name of the global variable or function to be used to determine a starting address. The name is entered as a string of up to 15 characters, enclosed in double quotation marks. If the symbol name is greater than 15 characters the symbol index number 'e' must be used to enter this input message using symbolic access. The global variable's symbol index number can be determined by using the DUMP:UT-SYMID input message.
e = Symbol index number of this global variable. The symbol index can be determined for this processor by using the DUMP:UT-SYMID input message.
f = Length in bytes of the dump (range is 1-192) (default is 1).
g = The number of levels of indirection to be calculated by generic utilities (range is 0-3) (default is 0).
h = The offset, in bytes, at each level of indirection. (range is 0-65535) (default is 0) (maximum offsets is 3).
4. SYSTEM RESPONSE

Refer to the APP:UT-IM-REASON appendix in the Appendixes section of the Input Messages manual.

5. REFERENCES

Input Message(s):

DUMP:UT-SYMID

Output Message(s):

EXC:UT-PPC
LOAD:UT-PPC

Input Appendix(es):

APP:UT-IM-REASON

Other Manual(s):

235-105-110 System Maintenance Requirements and Tools
DUMP:UT-PSUPH-A

Software Release: 5E14 only
Command Group: SFTUTIL
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Requests that the contents of one or more sequential memory locations in the specified packet switch unit protocol handler (PSUPH) be dumped.

This request may be used together with any of the other PSUPH generic utility input requests (refer to the REFERENCES section). If this request is used together with other generic utility requests, the END:UT-PSUPH input request may be used to signal the end of the series of requests. Format 2 requests that a function trace be performed in the specified PSUPH. This input request can only be used in a (non-timed) WHEN clause.

WARNING: The user takes responsibility for any effects on system operation that result from the use of this input request. Know the effects of the request before using it.

2. FORMAT

[1] DUMP:UT:PSUPH=a-b-c-d[,DIS][,EA][,L=e]
    ,{ADDR=f|REG=g|REGS|UVAR=h|GVAR="i"|SYMIDX=j}
    [,INDIR=k][,OFF=l[-l][-l]]{!|;}

3. EXPLANATION OF MESSAGE

DIS = Dump the data in a disassembled format.
EA = Dump the effective address of the specified field instead of the contents.

NOTE: The REGS and REG options of this input request are only supported in a PSUPH of the PH3/PH4 hardware type (that is, not valid for PH2 hardware type).

REGS = Dump data from all registers. If the data is dumped outside a WHEN clause, a dummy set of registers is used.

a = Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
b = Unit number (always 0).
c = Shelf number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
d = Slot number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
e = Length in bytes of the dump. The maximum dump length for a PSUPH of the PH3/PH4 hardware
type is (1-32767). The maximum dump length for a PSUPH of the PH2 hardware type is (1-1000). Default is 4 bytes for utility variable (UVAR) and REG unless REG is the status register which defaults to 2 bytes, 1 byte for ADDR, GVAR and SYMIDX.

\*f\* = Absolute address of location to start the dump or the starting point for indirect addressing.

\*g\* = Name of a specific register (address registers A0-A7, data registers D0-D7, program counter PC, or status register SR) whose data is to be dumped. If the data is dumped outside of a WHEN clause, a dummy set of registers is used.

\*h\* = Number of the UVAR whose data is to be dumped. The range of UVARs in a PSUPH of the PH2 hardware type is (0-10). The range of UVARs in a PSUPH of the PH3/PH4 hardware type is (0-14).

\*i\* = Symbolic name of the global variable or function to be used to determine a starting address. The name is entered as a string of up to 15 characters, enclosed in double quotation marks. If the symbol name is greater than 15 characters the symbol index number \*'j'\* must be used to enter this input request using symbolic access. The global variable's symbol index number can be determined by using the DUMP:UT-SYMID input request.

\*j\* = Symbol index number of this global variable. The symbol index can be determined for this processor by using the DUMP:UT-SYMID input request.

\*k\* = The number of levels of indirection to be calculated by generic utilities (0 - 3, default is 0).

\*l\* = The offsets, in bytes, at each level of indirection (default is 0). One offset can be specified per each level of indirection. Maximum number of offsets is 3.

\*NOTE:\* In the PH3/PH4, offsets can range from 0-65535. However, offsets greater than 32767 will be treated as negative offsets. In the PH2, offsets can range from 0-65535 in the positive direction.

4. SYSTEM RESPONSE

Refer to the APP:UT-IM-REASON appendix in the Appendixes section of the Input Messages manual.

5. REFERENCES

Input Message(s):

ALW:UT-PSUPH
CLR:UT-PSUPH
COPY:UT-PSUPH
DUMP:UT-SYMID
ELSE:UT-PSUPH
END:UT-PSUPH
EXC:UT-PSUPH
IF:UT-PSUPH
IF:UT-PSUPH-END
INH:UT-PSUPH
LOAD:UT-PSUPH
OP:UT-PSUPH
WHEN:UT-PSUPH
Output Message(s):

DUMP:UT-PSUPH
REPT:STACK-TRACE

Input Appendix(es):

APP:UT-IM-REASON

Other Manual(s):
235-105-110 System Maintenance Requirements and Tools
DUMP:UT-PSUPH-B

Software Release: 5E15 only
Command Group: SFTUTIL
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Requests that the contents of one or more sequential memory locations in the specified packet switch unit protocol handler (PSUPH) be dumped.

This request may be used together with any of the other PSUPH generic utility input requests (refer to the REFERENCES section).

If this request is used together with other generic utility requests, the END:UT-PSUPH input request may be used to signal the end of the series of requests.

Format 2 requests that a function trace be performed in the specified PSUPH. This input request can only be used in a (non-timed) WHEN clause.

WARNING: The user takes responsibility for any effects on system operation that result from the use of this input request. Know the effects of the request before using it.

2. FORMAT

[1] DUMP:UT:PSUPH=a-b-c-d[,DIS][,EA][,L=e]...
     ...,{ADDR=f|REG=g|REGS|UVAR=h|GVAR="i"|SYMIDX=j}...
     ...,{INDIR=k}[,,OFF=l[-l][-l]},,,!|;)


3. EXPLANATION OF MESSAGE

DIS = Dump the data in a disassembled format.

EA = Dump the effective address of the specified field instead of the contents.
Note: The REGS and REG options of this input request are only supported in a PSUPH of the PH[3-4,6,22], PHA, PHV[1-5] hardware type (that is, not valid for PH2 hardware type).

REGS = Dump data from all registers. If the data is dumped outside a WHEN clause, a dummy set of registers is used.

a = Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

b = Unit number (always 0).

c = Shelf number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
d = Slot number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

e = Length in bytes of the dump. The maximum dump length for a PSUPH is (1-1000). Default is 4 bytes for utility variable (UVAR) and REG unless REG is the status register which defaults to 2 bytes, 1 byte for ADDR, GVAR and SYMIDX.

f = Absolute address of location to start the dump or the starting point for indirect addressing.

g = Name of a specific register whose data is to be dumped. The following registers can be used:
- If PSUPH is a PHV5 hardware type, the registers are general purpose registers GPR0-GPR31, the stack pointer SP [which is GPR1], the link register LR, program counter PC, count register CTR, condition register CR, machine state register MSR, and the exception register XER.
- If PSUPH is a PH[3-4,6,22], PHA, PHV[1-4] hardware type, the registers are address registers A0-A5, A6 [which is the frame pointer FP], A7 [which is the stack pointer SP], data registers D0-D7, program counter PC, and status register SR.

Note: If the data is dumped outside of a WHEN clause, a dummy set of registers is used.

h = Number of the UVAR whose data is to be dumped. The range of UVARs in a PSUPH of the PH2 hardware type is (0-10). For all other PHs, the range of UVARs is (0-14).

i = Symbolic name of the global variable or function to be used to determine a starting address. The name is entered as a string of up to 15 characters, enclosed in double quotation marks. If the symbol name is greater than 15 characters the symbol index number 'j' must be used to enter this input request using symbolic access. The global variable’s symbol index number can be determined by using the DUMP:UT-SYMID input request.

j = Symbol index number of this global variable. The symbol index can be determined for this processor by using the DUMP:UT-SYMID input request.

k = The number of levels of indirection to be calculated by generic utilities (0 - 3, default is 0).

l = The offsets, in bytes, at each level of indirection (default is 0). One offset can be specified per each level of indirection. Maximum number of offsets is 3.

Note: In the PH2, offsets can range from 0-65535 in the positive direction.

In all other PHs, offsets can range from 0-65535. However, offsets greater than 32767 will be treated as negative offsets.

4. SYSTEM RESPONSE

Refer to the APP:UT-IM-REASON appendix in the Appendixes section of the Input Messages manual.

5. REFERENCES

Input Message(s):

ALW:UT-PSUPH
CLR:UT-PSUPH
COPY:UT-PSUPH
DUMP:UT-SYMID
ELSE:UT-PSUPH
END: UT-PSUPH
EXC: UT-PSUPH
IF: UT-PSUPH
IF: UT-PSUPH-END
INH: UT-PSUPH
LOAD: UT-PSUPH
OP: UT-PSUPH
WHEN: UT-PSUPH

Output Message(s):

DUMP: UT-PSUPH
REPT: STACK-TRACE

Input Appendix(es):

APP: RANGES
APP: UT-IM-REASON

Other Manual(s):
235-105-110 System Maintenance Requirements and Tools
DUMP:UT-PSUPH-C

Software Release: 5E16(1) and later
Command Group: SFTUTIL
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Format 1 requests that the contents of one or more sequential memory locations in the specified packet switch unit protocol handler (PSUPH) be dumped.

This request may be used together with any of the other PSUPH generic utility input requests (refer to the REFERENCES section).

If this request is used together with other generic utility requests, the END:UT-PSUPH input request may be used to signal the end of the series of requests.

Format 2 requests that a function trace be performed in the specified PSUPH. This input request can only be used in a (non-timed) WHEN clause. PH2 is not supported but all the other PH hardware types are.

WARNING: The user takes responsibility for any effects on system operation that result from the use of this input request. Know the effects of the request before using it.

2. FORMAT

[1] DUMP:UT:PSUPH=a-b-c-d[,DIS][,EA][,L=e]... 
   ...,(ADDR=f|REG=g|REGS|UVAR=h|GVAR="i"|SYMIDX=j)... 
   ...,[,INDIR=k][,OFF=l[-l][-l]]{!|;}


3. EXPLANATION OF MESSAGE

DIS = Dump the data in a disassembled format.

EA = Dump the effective address of the specified field instead of the contents.

NOTE: The REGS and REG options of this input request are not supported for PH2 but are for all other.

FTRACE = Dump the contents of the processor stacks when the WHEN:UT message is triggered.

REGS = Dump data from all registers. If the data is dumped outside a WHEN clause, a dummy set of registers is used.

a = Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

b = Packet switching unit (PSU) number. Refer to the APP:RANGES appendix in the Appendixes.
section of the Input Messages manual.

c = Shelf number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

d = Slot number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

e = Length in bytes of the dump. The maximum dump length for a PSUPH is (1-1000). Default is 4 bytes for utility variable (UVAR) and REG unless REG is the status register that defaults to 2 bytes, 1 byte for ADDR, GVAR and SYMIDX.

f = Absolute address of location to start the dump or the starting point for indirect addressing.

g = Name of a specific register whose data is to be dumped. Valid value(s):

<table>
<thead>
<tr>
<th>PSUPH Hardware Type:</th>
<th>Registers:</th>
</tr>
</thead>
<tbody>
<tr>
<td>PHV5, PHV6, PH31, PHA2, or PHE2</td>
<td>GPR0 = General purpose register.</td>
</tr>
<tr>
<td></td>
<td>GPR2-GPR31 = General purpose registers.</td>
</tr>
<tr>
<td></td>
<td>SP = Stack pointer SP (also known as GPR1).</td>
</tr>
<tr>
<td></td>
<td>LR = Link register.</td>
</tr>
<tr>
<td></td>
<td>PC = Program counter.</td>
</tr>
<tr>
<td></td>
<td>CTR = Count register.</td>
</tr>
<tr>
<td></td>
<td>CR = Condition register.</td>
</tr>
<tr>
<td></td>
<td>MSR = Machine state register.</td>
</tr>
<tr>
<td></td>
<td>XER = Exception register XER.</td>
</tr>
<tr>
<td>PH[3-4,6,22], PHA or PHV[1-4]</td>
<td>A0-A5 = Address registers.</td>
</tr>
<tr>
<td></td>
<td>A6 = the frame pointer FP.</td>
</tr>
<tr>
<td></td>
<td>A7 = Stack pointer SP.</td>
</tr>
<tr>
<td></td>
<td>D0-D7 = Data registers.</td>
</tr>
<tr>
<td></td>
<td>PC = Program counter.</td>
</tr>
<tr>
<td></td>
<td>SR = Status register.</td>
</tr>
</tbody>
</table>

If the data is dumped outside of a WHEN clause, a dummy set of registers is used.

h = Number of the UVAR whose data is to be dumped. The range of UVARs in a PSUPH of the PH2 hardware type is (0-10). For all other PHs, the range of UVARs is (0-14).

i = Symbolic name of the global variable or function to be used to determine a starting address. The name is entered as a string of up to 15 characters, enclosed in double quotation marks. If the symbol name is greater than 15 characters the symbol index number ‘j’ must be used to enter this input request using symbolic access. The global variable's symbol index number can be determined by using the DUMP:UT-SYMID input request.

j = Symbol index number of this global variable. The symbol index can be determined for this processor by using the DUMP:UT-SYMID input request.

k = The number of levels of indirection to be calculated by generic utilities (0 - 3, default is 0).

l = The offsets, in bytes, at each level of indirection (default is 0). One offset can be specified per each level of indirection. Maximum number of offsets is 3.

NOTE: In the PH2, offsets can range from 0-65535 in the positive direction.
In all other PHs, offsets can range from 0-65535. However, offsets greater than 32767 will be treated as negative offsets.

4. SYSTEM RESPONSE

Refer to the APP:UT-IM-REASON appendix in the Appendixes section of the Input Messages manual.

5. REFERENCES

Input Message(s):

ALW:UT-PSUPH
CLR:UT-PSUPH
COPY:UT-PSUPH
DUMP:UT-SYMID
ELSE:UT-PSUPH
END:UT-PSUPH
EXC:UT-PSUPH
IF:UT-PSUPH
IF:UT-PSUPH-END
INH:UT-PSUPH
LOAD:UT-PSUPH
OP:UT-PSUPH
WHEN:UT-PSUPH

Output Message(s):

DUMP:UT-PSUPH
REPT:STACK-TRACE

Input Appendix(es):

APP: RANGES
APP: UT-IM-REASON

Other Manual(s):

235-105-110 System Maintenance Requirements and Tools
DUMP:UT-QGP-A

Software Release: 5E14 only
Command Group: SFTUTIL
Application: 5
Type: Input

1. PURPOSE

Requests that the contents of one or more sequential memory locations in the specified quad-link packet switch (QLPS) gateway processor (QGP) be dumped.

2. FORMAT

DUMP:UT-QGP=a-b, {AP|MSGH}, {DIS|EA}, {ADDR=c|GVAR="d"|SYMIDX=e}, {L=f|INDIR=g|OFF=h[-h][-h]};

3. EXPLANATION OF MESSAGE

AP
   = Dump the contents of the QGP application processor's memory starting at the final calculated address.

DIS
   = Dump the data in a disassembled format.

EA
   = Dump the effective address of the specified field instead of the contents.

MSGH
   = Dump the contents of the QGP message handler processor's memory starting at the final calculated address.

a

b
   = QGP number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

c
   = Absolute address of location to start the dump (unless indirection has been specified).

d
   = Symbolic name of the global variable or function to be used to determine a starting address. The name is entered as a string of up to 15 characters, enclosed in double quotation marks. If the symbol name is greater than 15 characters the symbol index number 'e' must be used to enter this input message using symbolic access. The global variable's symbol index number can be determined by using the DUMP:UT-SYMID input message.

e
   = Symbol index number of this global variable. The symbol index can be determined for this processor by using the DUMP:UT-SYMID input message.

f
   = Length in bytes of the dump (1 - 192 bytes, default is 1).

g
   = The number of levels of indirection to be calculated by generic utilities (0 - 3, default is 0).

h
   = The offsets, in bytes, at each level of indirection (0 - 65535). Offsets greater than 32767 will be treated as negative offsets. One offset can be specified per each level of indirection. Maximum number of offsets is 3. Default is 0.

4. SYSTEM RESPONSE
Refer to the APP:UT-IM-REASON appendix in the Appendixes section of the Input Messages manual.

5. REFERENCES

Input Message(s):

DUMP:UT-SYMID

Output Message(s):

DUMP:UT-QGP

Input Appendix(es):

APP:RANGES
APP:UT-IM-REASON

Other Manual(s):

235-105-110  System Maintenance Requirements and Tools
DUMP:UT-QGP-B

Software Release: 5E15 and later
Command Group: SFTUTIL
Application: 5
Type: Input

1. PURPOSE

Requests that the contents of one or more sequential memory locations in the specified quad-link packet switch (QLPS) gateway processor (QGP) be dumped.

NOTE: This input message is valid on processors of the communications module model 1 and 2. It will be accepted but denied on the communications module model 3. Use the DUMP:UT:MSGS AP input message for equivalent functionality on processors of the communications module model 3.

2. FORMAT

DUMP:UT:QGP=a-b, {AP|MSGH}[,DIS][,EA],[ADDR=c|GVAR="d"|SYMIDX=e][,L=f][,INDIR=g][,OFF=h[-h][-h]]

3. EXPLANATION OF MESSAGE

AP = Dump the contents of the QGP application processor's memory starting at the final calculated address.

DIS = Dump the data in a disassembled format.

EA = Dump the effective address of the specified field instead of the contents.

MSGH = Dump the contents of the QGP message handler processor's memory starting at the final calculated address.

a = Message switch side. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

b = QGP number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

c = Absolute address of location to start the dump (unless indirection has been specified).

d = Symbolic name of the global variable or function to be used to determine a starting address. The name is entered as a string of up to 15 characters, enclosed in double quotation marks. If the symbol name is greater than 15 characters the symbol index number 'e' must be used to enter this input message using symbolic access. The global variable's symbol index number can be determined by using the DUMP:UT-SYMID input message.

e = Symbol index number of this global variable. The symbol index can be determined for this processor by using the DUMP:UT-SYMID input message.

f = Length in bytes of the dump (1 - 192 bytes, default is 1).

g = The number of levels of indirection to be calculated by generic utilities (0 - 3, default is 0).

h = The offsets, in bytes, at each level of indirection (0 - 65535). Offsets greater than 32767 will be treated as negative offsets. One offset can be specified per each level of indirection. Maximum
number of offsets is 3. Default is 0.

4. SYSTEM RESPONSE

Refer to the APP:UT-IM-REASON appendix in the Appendixes section of the Input Messages manual.

5. REFERENCES

Input Message(s):

DUMP:UT-SYMD

Output Message(s):

DUMP:UT-QGP

Input Appendix(es):

APP:RANGES
APP:UT-IM-REASON

Other Manual(s):

235-105-110  System Maintenance Requirements and Tools
DUMP:UT-SM-A

Software Release: 5E14 - 5E15
Command Group: SFTUTIL
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Requests that the contents of one or more sequential memory locations in the specified switching module (SM) be dumped.

This message may be used together with any of the other SM generic utility input messages (refer to the input messages listed in the REFERENCES section). If this message is used together with other utility messages, the END:UT-SM input message may be used to signal the end of the series of messages. Format 2 requests that a function trace be performed in the specified SM. This input message can only be used within a (non-timed) WHEN clause.

WARNING: The user is responsible for any effects on system operation that result from the use of this input message. Know the effects of the message before using it.

2. FORMAT

[1] DUMP:UT:SM=a[,MATE][][DIS][,EA][,L=b]
    {ADDR=c|REG=d|REGS|UVAR=e|GVAR="f"|SYMIDX=g}
    [,INDIR=h][][OFF=i[-i][-i]}{!|;}


3. EXPLANATION OF MESSAGE

DIS = Dump data in disassembled format.
EA = Dump the effective address of the specified field instead of the contents.
MATE = Dump the contents of the standby SM's memory starting at the final calculated address. Default is active SM memory.
REGS = Dump data from all registers. If the data is dumped outside a WHEN clause, a dummy set of registers is used.
a = SM number.
b = Length in bytes of the dump. Maximum length is 65536 bytes outside a WHEN breakpoint. Inside a WHEN breakpoint, the limit for output buffer is 2000, although UT will dump around 1500 bytes storing header information in the remaining bytes. Default is 4 bytes for UVAR and REG unless REG is the status register which defaults to 2 bytes, 1 byte for ADDR, GVAR and SYMIDX.
c = Absolute address of location to start the dump or the starting point for indirect addressing to the start of the dump.
d = Dumps data from a specific register (address registers A0-A7, data registers D0-D7, program...
counter PC, or status register SR). If the data is dumped outside of a WHEN clause, a dummy set of registers is used.

e = Number of the utility variable UVAR (0-14) whose data is to be dumped.

f = Symbolic name of the global variable or function to be used to determine a starting address. The name is entered as a string of up to 15 characters, enclosed in double quotation marks. If the symbol name is greater than 15 characters the symbol index number 'g' must be used to enter this input message using symbolic access. The global variable's symbol index number can be determined by using the DUMP:UT-SYMID input message.

g = Symbol index number of this global variable. The symbol index can be determined for this processor by using the DUMP:UT-SYMID input message.

h = The number of levels of indirection to be calculated by generic utilities. The maximum is 3. Default is 0.

i = The offsets, in bytes, at each level of indirection. They can range from 0-65535. However, offsets greater than 32767 will be treated as negative offsets. One offset can be specified per each level of indirection (default is 0) (maximum offsets is 3).

4. SYSTEM RESPONSE

Refer to the APP:UT-IM-REASON appendix in the Appendixes section of the Input Messages manual.

5. REFERENCES

Input Message(s):

ALW:UT-SM
CLR:UT-SM
COPY:UT-SM
DUMP:UT-SYMID
ELSE:UT-SM
END:UT-SM
EXC:UT-SM
IF:UT-SM
IF:UT-SM-ENDIF
INH:UT-SM
LOAD:UT-SM
OP:UT-SM
WHEN:UT-SM

Output Message(s):

DUMP:UT-SM
REPT:STACK-TRACE

Input Appendix(es):

APP:UT-IM-REASON

Other Manual(s):
DUMP:UT-SM-B
Software Release: 5E16(1) only
Command Group: SFTUTIL
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Requests that the contents of one or more sequential memory locations in the specified switching module (SM) be dumped.

This message may be used together with any of the other SM generic utility input messages (refer to the input messages listed in the REFERENCES section). If this message is used together with other utility messages, the END:UT-SM input message may be used to signal the end of the series of messages. Format 2 requests that a function trace be performed in the specified SM. This input message can only be used within a (non-timed) WHEN clause.

WARNING: The user is responsible for any effects on system operation that result from the use of this input message. Know the effects of the message before using it.

2. FORMAT

   {ADDR=c|REG=d|REGS|UVAR=e|GVAR="f"|SYMIDX=g}
   [,INDIR=h][,OFF=i[-i][-i]}!|;}


3. EXPLANATION OF MESSAGE

DIS = Dump data in disassembled format.

EA = Dump the effective address of the specified field instead of the contents.

MATE = Dump the contents of the standby SM's memory starting at the final calculated address. Default is active SM memory.

REGS = Dump data from all registers. If the data is dumped outside a WHEN clause, a dummy set of registers is used.

a = SM number.

b = Length in bytes of the dump. Maximum length is 8064 bytes outside a WHEN breakpoint. Inside a WHEN breakpoint, the limit for output buffer is 2000, although UT will dump around 1500 bytes storing header information in the remaining bytes. Default is 4 bytes for UVAR and REG unless REG is the status register which defaults to 2 bytes, 1 byte for ADDR, GVAR and SYMIDX.

c = Absolute address of location to start the dump or the starting point for indirect addressing to the start of the dump.

d = Dumps data from a specific register (address registers A0-A7, data registers D0-D7, program...
counter PC, or status register SR). If the data is dumped outside of a WHEN clause, a dummy set of registers is used.

e = Number of the utility variable UVAR (0-14) whose data is to be dumped.

f = Symbolic name of the global variable or function to be used to determine a starting address. The name is entered as a string of up to 15 characters, enclosed in double quotation marks. If the symbol name is greater than 15 characters the symbol index number 'g' must be used to enter this input message using symbolic access. The global variable's symbol index number can be determined by using the DUMP:UT-SYMID input message.

g = Symbol index number of this global variable. The symbol index can be determined for this processor by using the DUMP:UT-SYMID input message.

h = The number of levels of indirection to be calculated by generic utilities. The maximum is 3. Default is 0.

i = The offsets, in bytes, at each level of indirection. They can range from 0-65535. However, offsets greater than 32767 will be treated as negative offsets. One offset can be specified per each level of indirection (default is 0) (maximum offsets is 3).

4. SYSTEM RESPONSE

Refer to the APP:UT-IM-REASON appendix in the Appendixes section of the Input Messages manual.

5. REFERENCES

Input Message(s):

ALW:UT-SM
CLR:UT-SM
COPY:UT-SM
DUMP:UT-SYMID
ELSE:UT-SM
END:UT-SM
EXC:UT-SM
IF:UT-SM
IF:UT-SM-ENDIF
INH:UT-SM
LOAD:UT-SM
OP:UT-SM
WHEN:UT-SM

Output Message(s):

DUMP:UT-SM
REPT:STACK-TRACE

Input Appendix(es):

APP:UT-IM-REASON

Other Manual(s):
DUMP:UT-SM-C

Software Release: 5E16(2) and later
Command Group: SFTUTIL
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Requests that the contents of one or more sequential memory locations in the specified switching module (SM) be dumped.

This message may be used together with any of the other SM generic utility input messages (refer to the input messages listed in the REFERENCES section).

If this message is used together with other utility messages, the END:UT-SM input message may be used to signal the end of the series of messages.

Format 2 requests that a function trace be performed in the specified SM. This input message can only be used within a (non-timed) WHEN clause.

WARNING: The user is responsible for any effects on system operation that result from the use of this input message. Know the effects of the message before using it.

2. FORMAT

    . . .,(ADDR=c|REG=d|REGS|UVAR=e|GVAR="f"|SYMIDX=g). . .
    . . .[,INDIR=h][,OFF=i[-i][-i]{!|;}


3. EXPLANATION OF MESSAGE

DIS = Dump data in disassembled format.

EA = Dump the effective address of the specified field instead of the contents.

MATE = Dump the contents of the standby SM's memory starting at the final calculated address. Default is active SM memory.

REGS = Dump data from all registers. If the data is dumped outside a WHEN clause, a dummy set of registers is used.

a = Switching module (SM) number.

b = Length in bytes of the dump. Maximum length is 8064 bytes outside a WHEN breakpoint. Inside a WHEN breakpoint, the limit for output buffer is 2000, although UT will dump around 1500 bytes storing header information in the remaining bytes. Default is 4 bytes for UVAR and REG unless REG is the status register which defaults to 2 bytes, 1 byte for ADDR, GVAR and SYMIDX.
c = Absolute address of location to start the dump or the starting point for indirect addressing to the start of the dump.

d = Name of a specific register whose data is to be dumped. Valid value(s):

<table>
<thead>
<tr>
<th>SM Software Configuration:</th>
<th>Registers:</th>
</tr>
</thead>
</table>
| CNFG2KPPC                 | CR = Condition register.  
                          | CTR = Count register.   
                          | GPR0 = General purpose register. 
                          | GPR2-GPR31 = General purpose registers. 
                          | LR = Link register.       
                          | MSR = Machine state register. 
                          | PC = Program counter.     
                          | SP = General purpose register (also known as GPR1). 
                          | XER = The external interrupt mask register (integer exception). |
| Not CNFG2KPPC             | A0-A5 = Address registers. 
                          | A6 = The frame pointer (FP). 
                          | A7 = Stack pointer (SP). 
                          | D0-D7 = Data registers. 
                          | PC = Program counter.     
                          | SR = Status register.     |

If the data is dumped outside of a WHEN clause, a dummy set of registers is used.

e = Number of the utility variable UVAR (0-14) whose data is to be dumped.

f = Symbolic name of the global variable or function to be used to determine a starting address. The name is entered as a string of up to 15 characters, enclosed in double quotation marks. If the symbol name is greater than 15 characters the symbol index number 'g' must be used to enter this input message using symbolic access. The global variable's symbol index number can be determined by using the DUMP:UT-SYMID input message.

g = Symbol index number of this global variable. The symbol index can be determined for this processor by using the DUMP:UT-SYMID input message.

h = The number of levels of indirection to be calculated by generic utilities. The maximum is 3. Default is 0.

i = The offsets, in bytes, at each level of indirection. They can range from 0-65535. However, offsets greater than 32767 will be treated as negative offsets. One offset can be specified per each level of indirection (default is 0) (maximum offsets is 3).

4. SYSTEM RESPONSE

Refer to the APP:UT-IM-REASON appendix in the Appendixes section of the Input Messages manual.

5. REFERENCES

Input Message(s):

ALW:UT-SM
CLR:UT-SM
COPY:UT-SM
DUMP:UT-SYMID
ELSE:UT-SM
END:UT-SM
EXC:UT-SM
IF:UT-SM
IF:UT-SM-ENDIF
INH:UT-SM
LOAD:UT-SM
OP:UT-SM
WHEN:UT-SM

Output Message(s):

DUMP:UT-SM
REPT:STACK-TRACE

Input Appendix(es):

APP:UT-IM-REASON

Other Manual(s):
235-105-110  System Maintenance Requirements and Tools
1. PURPOSE

Requests that symbolic information be dumped from the common object file format (COFF) file defined by the processor or path identified in the input message. The symbolic information returned will be the processor identified (if used), the path to the symbol file, the symbol index number(s), and the complete symbol name(s).

For Format 1, given a processor and symbol index as information, this input message provides the full name of the global symbol referenced by the index and the path used by that processor. For Format 2, given a processor and symbol name (part or whole) as information, this input message provides the full name of all global symbols which match the given name (up to 40 matches), their index numbers and the path used by that processor. For Format 3, given a path to a COFF file on the administrative module (AM) and a symbol index as information, this input message provides the full name of the global symbol referenced by the index. For Format 4, given a path to a COFF file on the AM and a symbol name (part or whole) as information, this input message provides the full name of all global symbols which match the given name (up to 40 matches) and their index numbers.

2. FORMAT

[1] DUMP:UT:SYMID,a|CMFPSG=b-c|DNUS=d-e|FCP=f|IDCU=d-g |IDCULSI=d-g-h|ISLUCD=d-i|MH=d-j|MMP=b-k|PI=d-l|PPC=m|PSUPH=d-v-n-o |QGPAP=b-p|QGPMESGH=b-p|SM=d|TMUX=d-e-q-r},SYMIDX=s;

[2] DUMP:UT:SYMID,a|CMFPSG=b-c|DNUS=d-e|FCP=f|IDCU=d-g |IDCULSI=d-g-h|ISLUCD=d-i|MH=d-j|MMP=b-k|PI=d-l|PPC=m|PSUPH=d-v-n-o |QGPAP=b-p|QGPMESGH=b-p|SM=d|TMUX=d-e-q-r},GVAR="t";


3. EXPLANATION OF MESSAGE

- **a** = Communications module processor (CMP) number.
- **b** = Message switch side. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
- **c** = CMP message handler number.
- **d** = Switching module number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
- **e** = Digital networking unit - synchronous optical network (SONET) (DNU-S) common controller number.
- **f** = Foundation peripheral controller number.
- **g** = Integrated digital carrier unit (IDCU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
h = IDCU loop side interface number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

i = Integrated services line unit common controller number.

j = Message handler number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

k = Module message processor number.

l = Side of the module controller/time-slot interchanger (MCTSI).

m = Pump peripheral controller number.

n = Packet switch unit protocol handler (PSUPH) shelf number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

o = PSUPH slot number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

p = Quad-link packet switch gateway processor number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

q = DNU-S transmission multiplexer (TMUX) data group number.

r = TMUX number.

s = Symbol index (SYMIDX) number of global variable.

t = Whole or partial symbol name of the global variable (GVAR) or function to be used for the symbol matching. Must be entered as a string of up to 127 characters, enclosed in double quotation marks. If the symbol name is greater than 127 characters the utsyminfo or 3bidump tools must be used on the UNIX® RTR terminal. Refer to the System Maintenance Requirements and Tools manual for information on the utsyminfo and 3bidump tools.

u = Full path from 'root' to COFF symbol file on the AM.

v = Unit number (always 0).

4. SYSTEM RESPONSE

Refer to the APP:UT-IM-REASON appendix in the Appendixes section of the Input Messages manual.

5. REFERENCES

Output Message(s):

DUMP:UT-SM

Input Appendix(es):

APP:UT-IM-REASON

Other Manual(s):
DUMP:UT-SYMID-B
Software Release: 5E15 only
Command Group: SFTUTIL
Application: 5
Type: Input

1. PURPOSE

Requests that Symbolic information be dumped from the common object file format (COFF) file defined by the processor or path identified in the input message. The symbolic information returned will be the processor identified (if used), the path to the symbol file, the symbol index number(s), and the complete symbol name(s).

For format 1, given a processor and symbol index as information, this input message provides the full name of the global symbol referenced by the index and the path used by that processor. For format 2, given a processor and symbol name (part or whole) as information, this input message provides the full name of all global symbols which match the given name (up to 40 matches), their index numbers and the path used by that processor. For format 3, given a path to a COFF file on the administrative module (AM) and a symbol index as information, this input message provides the full name of the global symbol referenced by the index. For format 4, given a path to a COFF file on the AM and a symbol name (part or whole) as information, this input message provides the full name of all global symbols which match the given name (up to 40 matches) and their index numbers.

Note 1: The processors CMPMSG, FPC, MMP, PPC, QGPAP and QGPMSGH are only supported when the switch CM complex is Model 2 or earlier.

Note 2: The processors MSGSAP, MSGSIP, ONTCAP, and ONTCIP are only supported when the switch CM complex is Model 3.

2. FORMAT

[1] DUMP:UT:SYMID, {CMP=a | CMPMSG=b-c | DNUS=d-e | FCP=f | IDCU=d-g | IDCULSI=d-g-h | ISLUCC=d-i | MH=d-j | MMP=b-k | MSGSAP=b | MSGSIP=b | ONTCAP=w | ONTCIP=w | PI=d-l | PPC=m | PSUPH=d-v-n-o | QGPAP=b-p | QGPMSGH=b-p | SM=d | TMUX=d-e-q-r}, SYMIDX=s;

[2] DUMP:UT:SYMID, {CMP=a | CMPMSG=b-c | DNUS=d-e | FCP=f | IDCU=d-g | IDCULSI=d-g-h | ISLUCC=d-i | MH=d-j | MMP=b-k | MSGSAP=b | MSGSIP=b | ONTCAP=w | ONTCIP=w | PI=d-l | PPC=m | PSUPH=d-v-n-o | QGPAP=b-p | QGPMSGH=b-p | SM=d | TMUX=d-e-q-r}, GVAR="t";


3. EXPLANATION OF MESSAGE

a = Communications module processor (CMP) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.


c = CMP message handler number.

d = Switching module number. Refer to the APP:RANGES appendix in the Appendixes section of the
Input Messages manual.

e = Digital networking unit - SONET common controller number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

f = Foundation peripheral controller number.

g = Integrated digital carrier unit (IDCU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

h = IDCU loop side interface number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

i = Integrated services line unit common controller number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

j = Message handler number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

k = Module message processor number.

l = Side of the module controller/time-slot interchanger.

m = Pump peripheral controller number.

n = Packet switch unit protocol handler (PSUPH) shelf number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

o = PSUPH slot number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

p = Quad-link packet switch gateway processor number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

q = DNU-S transmission multiplexer (TMUX) data group number.

r = TMUX number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

s = Symbol index (SYMIDX) number of global variable.

t = Whole or partial symbol name of the global variable (GVAR) or function to be used for the symbol matching. Must be entered as a string of up to 127 characters, enclosed in double quotation marks. If the symbol name is greater than 127 characters the utsyminfo or 3bidump tools must be used on the UNIX terminal. Refer to the System Maintenance Requirements and Tools manual for information on the utsyminfo and 3bidump tools.

u = Full path from 'root' to COFF symbol file on the AM.

v = Unit number (always 0).

w = Office network and timing complex side. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE
Refer to the APP:UT-IM-REASON appendix in the Appendixes section of the Input Messages manual.

5. REFERENCES

Output Message(s):

DUMP : UT-SM

Input Appendix(es):

APP : RANGES
APP : UT-IM-REASON

Other Manual(s):

System Maintenance Requirements and Tools
DUMP:UT-SYMID-C

Software Release: 5E16(1) and later
Command Group: SFTUTIL
Application: 5
Type: Input

1. PURPOSE

Requests that Symbolic information be dumped from the common object file format (COFF) file defined by the processor or path identified in the input message. The symbolic information returned will be the processor identified (if used), the path to the symbol file, the symbol index number(s), and the complete symbol name(s).

For format 1, given a processor and symbol index as information, this input message provides the full name of the global symbol referenced by the index and the path used by that processor. For format 2, given a processor and symbol name (part or whole) as information, this input message provides the full name of all global symbols which match the given name (up to 40 matches), their index numbers and the path used by that processor. For format 3, given a path to a COFF file on the administrative module (AM) and a symbol index as information, this input message provides the full name of the global symbol referenced by the index. For format 4, given a path to a COFF file on the AM and a symbol name (part or whole) as information, this input message provides the full name of all global symbols which match the given name (up to 40 matches) and their index numbers.

Note 1: The processors CMPMSG, FPC, MMP, PPC, QGPAP and QGPMSGH are only supported when the switch CM complex is Model 2 or earlier.

Note 2: The processors MSGSAP, MSGSIP, ONTCAP, and ONTCIP are only supported when the switch CM complex is Model 3.

2. FORMAT

[1] DUMP:UT:SYMID,{CMP=a|CMPMSG=b-c|DNUS=d-e|FCP=f|IDCU=d-g|IDCULSI=d-g-h|ISLUCC=d-i|MH=d-j|MMP=b-k|MSGSAP=b|MSGSIP=b|OFI=d-x-y-z|ONTCAP=w|ONTCIP=w|PI=d-l|PFC=m|PSUPH=d-v-n-o|QGPAP=b-p|QGPMSGH=b-p|SM=d|TMUX=d-e-q-r},SYMIDX=s;

[2] DUMP:UT:SYMID,{CMP=a|CMPMSG=b-c|DNUS=d-e|FCP=f|IDCU=d-g|IDCULSI=d-g-h|ISLUCC=d-i|MH=d-j|MMP=b-k|MSGSAP=b|MSGSIP=b|OFI=d-x-y-z|ONTCAP=w|ONTCIP=w|PI=d-l|PFC=m|PSUPH=d-v-n-o|QGPAP=b-p|QGPMSGH=b-p|SM=d|TMUX=d-e-q-r},GVAR="t";


3. EXPLANATION OF MESSAGE

a = Communications module processor (CMP) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.


c = CMP message handler number.

d = Switching module number. Refer to the APP:RANGES appendix in the Appendixes section of the
Input Messages manual.

e = Digital networking unit - SONET common controller number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

f = Foundation peripheral controller number.

g = Integrated digital carrier unit (IDCU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

h = IDCU loop side interface number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

i = Integrated services line unit common controller number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

j = Message handler number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

k = Module message processor number.

l = Side of the module controller/time-slot interchanger.

m = Pump peripheral controller number.

n = Packet switch unit protocol handler (PSUPH) shelf number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

o = PSUPH slot number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

p = Quad-link packet switch gateway processor number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

q = DNU-S transmission multiplexer (TMUX) data group number.

r = TMUX number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

s = Symbol index (SYMIDX) number of global variable.

t = Whole or partial symbol name of the global variable (GVAR) or function to be used for the symbol matching. Must be entered as a string of up to 127 characters, enclosed in double quotation marks. If the symbol name is greater than 127 characters the utsyminfo or 3bidump tools must be used on the UNIX terminal. Refer to the System Maintenance Requirements and Tools manual for information on the utsyminfo and 3bidump tools.

u = Full path from 'root' to COFF symbol file on the AM.

v = Packet Switching Unit (PSU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

w = Office network and timing complex side. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

x = Optical interface unit (OIU) number. Refer to the APP:RANGES appendix in the Appendixes
section of the Input Messages manual.

\( y \) = Protection group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

\( z \) = Side number.

4. SYSTEM RESPONSE

Refer to the APP:UT-IM-REASON appendix in the Appendixes section of the Input Messages manual.

5. REFERENCES

Output Message(s):

- DUMP:UT-SM

Input Appendix(es):

- APP:RANGES
- APP:UT-IM-REASON

Other Manual(s):

235-105-110  System Maintenance Requirements and Tools
DUMP:UT-TMUX

**Software Release:** 5E14 and later  
**Command Group:** SFTUTIL  
**Application:** 5  
**Type:** Input

**WARNING:** INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. **PURPOSE**

Requests that the contents of one or more sequential memory locations in the specified digital networking unit - synchronous optical network (SONET) (DNU-S) transmission multiplexer (TMUX) be dumped.

**WARNING:** The user is responsible for any effects on system operation that result from the use of this input message. Know the effects of the message before using it.

2. **FORMAT**

```
DUMP:UT-TMUX=a-b-c-d[,DIS][,EA][,L=e]{ADDR=f,UVAR=g,GVAR="h",SYMIDX=i}{,INDIR=j}{,OFF=k[-k]}{!|;}
```

3. **EXPLANATION OF MESSAGE**

- **DIS**
  - Dump data in disassembled format.

- **EA**
  - Dump the effective address of the specified field instead of the contents.

- **a**
  - Switching module (SM) number.

- **b**
  - DNU-S number.

- **c**
  - Data group number.

- **d**
  - TMUX number.

- **e**
  - Length in bytes of the dump. Maximum length is 248 bytes. Default is 4 bytes for UVAR, 1 byte for ADDR, GVAR and SYMIDX.

- **f**
  - Absolute address of location to start the dump or the starting point for indirect addressing to the start of the dump.

- **g**
  - Number of the utility variable (0 - 10) whose contents are to be dumped.

- **h**
  - Symbolic name of the global variable or function to be used to determine a starting address. The name is entered as a string of up to 15 characters, enclosed in double quotation marks. If the symbol name is greater than 15 characters the symbol index number 'i' must be used to enter this input message using symbolic access. The global variable's symbol index number can be determined by using the DUMP:UT-SYMID input message.

- **i**
  - Symbol index number of this global variable. The symbol index can be determined for this processor by using the DUMP:UT-SYMID input message.

- **j**
  - Number of levels of indirection to be calculated by generic utilities. (range is 0-3) (default is 0).
k = The offset, in bytes, at each level of indirection. They can range from 0-65535. However, offsets greater than 32767 will be treated as negative offsets. One offset can be specified per each level of indirection. Maximum number of offsets is 3. Default is 0.

4. SYSTEM RESPONSE

Refer to the APP:UT-IM-REASON appendix in the Appendixes section of the Input Messages manual.

5. REFERENCES

Input Message(s):

DUMP:UT-SYMID
EXC:UT-TMUX
LOAD:UT-TMUX

Output Message(s):

DUMP:UT-TMUX

Input Appendix(es):

APP:UT-IM-REASON

Other Manual(s):
235-105-110 System Maintenance Requirements and Tools
DUMP:UVAR

Software Release: 5E14 and later
Command Group: SFTUTIL
Application: 5,3B
Type: Input

1. PURPOSE

Dumps the contents of one or more administrative module (AM) generic access package (GRASP) utility variables either as an immediate message or as an action associated with a breakpoint. Utility variables are used to store data temporarily.

This message can also be used to dump an address range in main memory (by specifying a single utility variable and offsets) but only if the message is part of the action list for a WHEN message. If offsets are specified, the first offset is added to the value of the contents of the utility variable and the result is interpreted as a virtual address. The number of offsets specified defines the length of the chain of virtual addresses to be accessed in this way before accessing the desired range of dump locations. For example, a single offset with value 0 uses the virtual address found in the utility variable for the dump location.

NOTE: Offsets can only be used if the DUMP:UVAR message is used as an action associated with a breakpoint, since that defines a process address space for memory addressing.

2. FORMAT

DUMP:UVAR=a[,OFF=b] [,L=c|NL=d] ][:WORD];

3. EXPLANATION OF MESSAGE

WORD = Indicates that all addresses, offsets, and lengths are to be interpreted as words including addresses derived in address chains. If this option is omitted they are assumed to be byte values.

a = Utility variable(s) (1-50) to be dumped. A maximum of five utility variables may be listed.

b = Offset. Omission of the keyword implies no indirect addressing. Offsets are in bytes unless the WORD option is used.

c = The length of the dump, assumed to be in bytes unless the WORD option is used. The maximum is 128 bytes or 32 words for memory dumps, 4 bytes or 1 word for utility variable dumps. The default is 1 unless a range is explicitly specified. The actual range of addresses to be dumped is rounded out to word address boundaries.

d = Used to indicate that the operation should use the locations beginning 'd' lower than the calculated address and ending at the address. The locations are used in ascending order. Usage and limitations are the same as for the 'c' option.

4. SYSTEM RESPONSE

IP = In progress. The message has been added to the WHEN action list.

PF = Printout follows. Followed by DUMP:UVAR output message.

RL = Retry later. The system is in an overload condition or completing a previous OP:UMEM message.
= General syntax error. May also include:
- EXTRA KEYWORD (OFF) = Indirection not allowed except as action of a WHEN.
- INCONSISTENT DATA (UVAR LIST + OFF) = No indirection permitted with more than one utility variable listed.
- INCONSISTENT KEYWORDS (NL-OFF) = Negative length not allowed without OFF.
- INPUT ERROR (OFF COUNT) = Too many offsets listed.
- INPUT ERROR (UVAR COUNT) = Too many utility variables listed.
- RANGE ERROR (L OR NL) = Length specified too long or zero.
- RANGE ERROR (UVAR) = Invalid utility variable number was specified.

5. REFERENCES

Input Message(s):

DUMP:ADDR
DUMP:PID
DUMP:PMEM
DUMP:REG
DUMP:UID
OP:UMEEM
WHEN:PID
WHEN:UID

Output Message(s):

DUMP:UVAR
26. ELSE
ELSE:UT-CMP

Software Release: 5E14 and later
Command Group: SFTUTIL
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Requests that the conditional ELSE input message used with the IF input message perform any communications module processor (CMP) generic utility input messages following it, provided the IF input message comparison is not true. Refer to the IF:UT-CMP input message.

WARNING: The user takes responsibility for any effects on system operation that result from the use of this input message. Know the effects of the message before using it.

2. FORMAT

ELSE:UT:CMP=a,(MATE|PRIM);

3. EXPLANATION OF MESSAGE

MATE = Execute this input message on the standby CMP.
PRIM = Execute this input message on the active CMP.
a = CMP number.

4. SYSTEM RESPONSE

Refer to the APP:UT-IM-REASON appendix in the Appendixes section of the Input Messages manual.

5. REFERENCES

Input Message(s):

ALM:UT-CMP
CLR:UT-CMP
COPY:UT-CMP
DUMP:UT-CMP
END:UT-CMP
EXC:UT-CMP
IF:UT-CMP
IF:UT-CMP-ENDIF
INH:UT-CMP
LOAD:UT-CMP
OP:UT-CMP
WHEN:UT-CMP

Output Message(s):
ELSE:UT-MCTSI-PI

Software Release: 5E14 and later
Command Group: SFTUTIL
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Requests the conditional ELSE input message; which is used with the IF input message to perform any packet interface (PI) unit generic utility input messages following it, provided the IF input message comparison is not true (refer to the IF:UT-MCTSI-PI input message).

NOTE: This input message is only supported on PIs of the PI2 hardware type.

WARNING: The user is responsible for any effects on system operation that result from the use of this input message. Know the effects of the message before using it.

2. FORMAT

ELSE:UT:MCTSI=a-b,PI{!|;}

3. EXPLANATION OF MESSAGE

a = Switching module (SM) number.
b = Side of the module controller/time-slot interchange (MCTSI).

4. SYSTEM RESPONSE

Refer to the APP:UT-IM-REASON appendix in the Appendixes section of the Input Messages manual.

5. REFERENCES

Input Message(s):

ALW:UT-MCTSI-PI
CLR:UT-MCTSI-PI
COPY:UT-MCTSI-PI
DUMP:UT-MCTSI-PI
END:UT-MCTSI-PI
EXC:UT-MCTSI-PI
IF:UT-MCTSI-PI
IF:UT-MCTSI-PE
INH:UT-MCTSI-PI
LOAD:UT-MCTSI-PI
OP:UT-MCTSI-PI
WHEN:UT-MCTSI-PI

Input Appendix(es):
APP : UT-IM-REASON

Other Manual(s):
235-105-110  System Maintenance Requirements and Tools
235-600-400  Audits
ELSE:UT-PSUPH-A

Software Release: 5E14 - 5E15
Command Group: SFTUTIL
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Requests that the conditional ELSE input message used with the IF input message perform any packet switch unit protocol handler (PSUPH) generic utility input messages following it, provided the IF input message comparison is not true. Refer to the IF:UT-PSUPH input message.

NOTE: This input message is only supported on PSUPHs of the PH3/PH4 hardware type (that is, not PH2 hardware types).

WARNING: The user is responsible for any effects on system operation that result from the use of this input message. Know the effects of the message before using it.

2. FORMAT

ELSE:UT-PSUPH=a-b-c-d;

3. EXPLANATION OF MESSAGE

a = Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

b = Unit number (always 0).

c = Shelf number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

d = Slot number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

Refer to the APP:UT-IM-REASON appendix in the Appendixes section of the Input Messages manual.

5. REFERENCES

Input Message(s):

ALW:UT-PSUPH
CLR:UT-PSUPH
COPY:UT-PSUPH
DUMP:UT-PSUPH
END:UT-PSUPH
EXC:UT-PSUPH
IF:UT-PSUPH
IF:UT-PSUPH-END
INH:UT-PSUPH
LOAD:UT-PSUPH
OP:UT-PSUPH
WHEN:UT-PSUPH

Output Message(s):

IF:UT-PSUPH

Input Appendix(es):

APP:UT-IM-REASON

Other Manual(s):
235-105-110 System Maintenance Requirements and Tools
235-600-400 Audits
ELSE:UT-PSUPH-B

Software Release: 5E16(1) and later
Command Group: SFTUTIL
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Requests that the conditional ELSE input message used with the IF input message perform any packet switch unit protocol handler (PSUPH) generic utility input messages following it, provided the IF input message comparison is not true. Refer to the IF:UT-PSUPH input message.

NOTE: This input message is not supported on PSUPHs of the PH2 hardware type and is supported on all others.

WARNING: The user is responsible for any effects on system operation that result from the use of this input message. Know the effects of the message before using it.

2. FORMAT

ELSE:UT:PSUPH=a-b-c-d{!|;}

3. EXPLANATION OF MESSAGE

a = Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

b = Packet Switching Unit (PSU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

c = Shelf number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

d = Slot number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

Refer to the APP:UT-IM-REASON appendix in the Appendixes section of the Input Messages manual.

5. REFERENCES

Input Message(s):

ALW:UT-PSUPH
CLR:UT-PSUPH
COPY:UT-PSUPH
DUMP:UT-PSUPH
END:UT-PSUPH
Output Message(s):

IF:UT-PSUPH

Input Appendix(es):

APP:RANGES
APP:UT-IM-REASON

Other Manual(s):
235-105-110 System Maintenance Requirements and Tools
235-600-400 Audits
ELSE:UT-SM

Software Release: 5E14 and later
Command Group: SFTUTIL
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Conditional ELSE input message used with the IF input message will perform any switching module (SM) generic utility input messages following it, provided the IF input message comparison is not true. Refer to the IF:UT-SM input message.

WARNING: The user is responsible for any effects on system operation that result from the use of this input message. Know the effects of the message before using it.

2. FORMAT

ELSE:UT:SM=a;

3. EXPLANATION OF MESSAGE

a = SM number.

4. SYSTEM RESPONSE

Refer to the APP:UT-IM-REASON appendix in the Appendixes section of the Input Messages manual.

5. REFERENCES

Input Message(s):

ALW:UT-SM
CLR:UT-SM
COPY:UT-SM
DUMP:UT-SM
END:UT-SM
EXC:UT-SM
IF:UT-SM
IF:UT-SM-ENDIF
INH:UT-SM
LOAD:UT-SM
OP:UT-SM

Output Message(s):

ELSE:UT-SM

Input Appendix(es):
APP:UT-IM-REASON

Other Manual(s):
235-105-110   System Maintenance Requirements and Tools
27. END
END:UT-CMP

Software Release: 5E14 and later
Command Group: SFTUTIL
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Requests that a series of communication module processor (CMP) generic utility input messages be ended (Refer to the input messages listed in the REFERENCES section).

WARNING: The user takes responsibility for any effects on system operation that result from the use of this input message. Know the effects of the message before using it.

2. FORMAT

END:UT:CMP=a,{MATE|PRIM},b;

3. EXPLANATION OF MESSAGE

MATE = Execute this input message on the standby CMP processor.

PRIM = Execute this input message on the active CMP processor.

a = CMP number.

b = Verb that the series of messages started with (ALW, CLR, COPY, DUMP, EXC, IF, INH, LOAD, OP, or WHEN).

4. SYSTEM RESPONSE

Refer to the APP:UT-IM-REASON appendix in the Appendixes section of the Input Messages manual.

5. REFERENCES

Input Message(s):

ALW:UT-CMP
CLR:UT-CMP
COPY:UT-CMP
DUMP:UT-CMP
ELSE:UT-CMP
EXC:UT-CMP
IF:UT-CMP
IF:UT-CMP-ENDIF
INH:UT-CMP
LOAD:UT-CMP
OP:UT-CMP
WHEN:UT-CMP
Output Message(s):

END : UT-CMP

Input Appendix(es):

APP : UT-IM-REASON

Other Manual(s):

235-105-110 System Maintenance Requirements and Tools
END:UT-MCTSI-PI

Software Release: 5E14 and later
Command Group: SFTUTIL
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Requests that a series of packet interface unit (PI) generic utility input messages be ended. Refer to the References section of this message.

NOTE: This input message is only supported on PIs of the PI2 hardware type.

WARNING: The user is responsible for any effects on system operation that result from the use of this input message. Know the effects of the message before using it.

2. FORMAT

END:UT:MCTSI=a-b-c,PI;

3. EXPLANATION OF MESSAGE

a = Switching module (SM) number.
b = Side of the module controller/time-slot interchange (MCTSI).
c = Verb that the series of messages started with (ALW, CLR, COPY, DUMP, EXC, IF, INH, LOAD, OP, or WHEN).

4. SYSTEM RESPONSE

Refer to the APP:UT-IM-REASON appendix in the Appendixes section of the Input Messages manual.

5. REFERENCES

Input Message(s):

ALW:UT-MCTSI-PI
CLR:UT-MCTSI-PI
COPY:UT-MCTSI-PI
DUMP:UT-MCTSI-PI
ELSE:UT-MCTSI-PI
EXC:UT-MCTSI-PI
IF:UT-MCTSI-PI
IF:UT-MCTSI-PE
INH:UT-MCTSI-PI
LOAD:UT-MCTSI-PI
OP:UT-MCTSI-PI
WHEN:UT-MCTSI-PI
Input Appendix(es):

APP: UT-IM-REASON

Other Manual(s):
235-105-110  System Maintenance Requirements and Tools
235-600-400  Audits
END:UT-PSUPH-A
Software Release: 5E14 - 5E15
Command Group: SFTUTIL
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Requests that a series of packet switch unit protocol handler (PSUPH) generic utility input messages be ended (Refer to the input messages listed in the REFERENCES section).

NOTE: This input message is only supported on PSUPHs of the PH3/PH4 hardware type (that is, not PH2 hardware types).

WARNING: The user is responsible for any effects on system operation that result from the use of this input message. Know the effects of the message before using it.

2. FORMAT

END:UT:PSUPH=a-b-c-d,e;

3. EXPLANATION OF MESSAGE

a = Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

b = Unit number (always 0).

c = Shelf number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

d = Slot number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

e = Verb that the series of messages started with (ALW, CLR, COPY, DUMP, EXC, IF, INH, LOAD, OP, or WHEN).

4. SYSTEM RESPONSE

Refer to the APP:UT-IM-REASON appendix in the Appendixes section of the Input Messages manual.

5. REFERENCES

Input Message(s):

ALW:UT-PSUPH
CLR:UT-PSUPH
COPY:UT-PSUPH
DUMP:UT-PSUPH
ELSE:UT-PSUPH
END:UT-PSUPH-B

Software Release: 5E16(1) and later
Command Group: SFTUTIL
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE
Requests that a series of packet switch unit protocol handler (PSUPH) generic utility input messages be ended (Refer to the input messages listed in the REFERENCES section).

NOTE: This input message is not supported on PSUPHs of the PH2 hardware type and is supported on all others.

WARNING: The user is responsible for any effects on system operation that result from the use of this input message. Know the effects of the message before using it.

2. FORMAT
END:UT:PSUPH=a-b-c-d,e;

3. EXPLANATION OF MESSAGE

a = Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

b = Packet Switching Unit (PSU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

c = Shelf number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

d = Slot number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

e = Verb that the series of messages started with (ALW, CLR, COPY, DUMP, EXC, IF, INH, LOAD, OP, or WHEN).

4. SYSTEM RESPONSE
Refer to the APP:UT-IM-REASON appendix in the Appendixes section of the Input Messages manual.

5. REFERENCES
Input Message(s):

ALW:UT-PSUPH
CLR:UT-PSUPH
COPY:UT-PSUPH
DUMP:UT-PSUPH
ELSE:UT-PSUPH
EXC:UT-PSUPH
IF:UT-PSUPH
IF:UT-PSUPH-END
INH:UT-PSUPH
LOAD:UT-PSUPH
OP:UT-PSUPH
WHEN:UT-PSUPH

Output Message(s):
END:UT-PSUPH

Input Appendix(es):
APP:RANGES
APP:UT-IM-REASON

Other Manual(s):
235-105-110 System Maintenance Requirements and Tools
235-600-400 Audits
END:UT-SM

Software Release: 5E14 and later
Command Group: SFTUTIL
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Requests that a series of switching module (SM) generic utility input messages be ended (Refer to the input messages listed in the REFERENCES section).

WARNING: The user is responsible for any effects on system operation that result from the use of this input message. Know the effects of the message before using it.

2. FORMAT

END:UT:SM=a,b;

3. EXPLANATION OF MESSAGE

a = SM number.

b = Verb that the series of messages started with (ALW, CLR, COPY, DUMP, EXC, IF, INH, LOAD, OP, or WHEN).

4. SYSTEM RESPONSE

Refer to the APP:UT-IM-REASON appendix in the Appendixes section of the Input Messages manual.

5. REFERENCES

Input Message(s):

ALW:UT-SM
CLR:UT-SM
COPY:UT-SM
DUMP:UT-SM
ELSE:UT-SM
EXC:UT-SM
IF:UT-SM
IF:UT-SM-ENDIF
INH:UT-SM
LOAD:UT-SM
OP:UT-SM
WHEN:UT-SM

Output Message(s):

END:UT-SM
Input Appendix(es):

APP: UT-IM-REASON

Other Manual(s):
235-105-110  System Maintenance Requirements and Tools
END:WHEN

Software Release: 5E14 and later
Command Group:
Application: 5,3B
Type: Input

1. PURPOSE

Marks the end of a list of administrative module (AM) generic access package (GRASP) messages to be performed when a specified breakpoint condition exists.

2. FORMAT

END:WHEN;

3. EXPLANATION OF MESSAGE

No variables.

4. SYSTEM RESPONSE

PF = Printout follows. Followed by the appropriate WHEN output message.

RL = Retry later. The system is in an overload condition or completing the previous OP:UMEM message.

?A = Only allowed in a WHEN action list.

?I = General syntax error or:
   - PUNCTUATION ERROR = Exclamation point was expected.

5. REFERENCES

Input Message(s):

OP:UMEM
WHEN:PID
WHEN:UID

Output Message(s):

WHEN:PID
WHEN:UID
28. EX
EX:ALIT

**Software Release:** 5E14 and later  
**Command Group:** SM  
**Application:** 5  
**Type:** Input

1. PURPOSE

Requests interactive diagnostics (exercises) of the automatic line insulation test (ALIT) unit. This message is used primarily for manual troubleshooting.

Format 1 starts a diagnostic exercise program on the ALIT.

Format 2 resets the diagnostic options and begins executing the previously activated diagnostic program from the current point of suspension until the specified number of segments has been performed.

Format 3 inverts the state (from running to suspended or vice versa) of a previously activated diagnostic program.

Format 4 executes a portion of a previously activated diagnostic program.

Format 5 transfers control from the current point of suspension to the beginning of the specified segment of a previously activated diagnostic program, ignoring interim test failures.

To stop this exercise, use input message STP:ALIT. The unit will remain out of service.

2. FORMAT

[1] EX:ALIT=a-b-c-d,START[,GROW];

[2] EX:ALIT=a-b-c-d[,UCL][,RAW][,SYNCH=g-h-i],STEP=e[,TLP];


[4] EX:ALIT=a-b-c-d[,UCL][,RAW][,SYNCH=g-h-i][,RPT=[f]],PH=j-k[,TLP];

[5] EX:ALIT=a-b-c-d,PAUSE=l-m;

3. EXPLANATION OF MESSAGE

GROW = Allow access to growth equipment.

RAW = Print raw test failure data.

TLP = Print ordered pack list.

UCL = Execute unconditionally.

a = Switching module (SM) number.

b = Metallic service unit number.

c = Service group number.

d = Metallic service unit board number.

e = Number of segments to be executed, beginning from the current point of suspension. With this
format, the RPT option is not allowed.

f = Number of times the exercise is to be repeated. Default=32,767.
g = The number of the phase that has statement ‘i’ and segment ‘h’ (SM units only).
h = The number of the segment that has statement ‘i’ (SM units only).
i = The number of the statement at the beginning of which a synchronizing pulse is to be generated (SM units only).
j = The number of the phase that has the segment(s) to be executed.
k = The number of the segment or range of segments in phase ‘j’ to be executed.
l = Number of the phase in which suspension of diagnostic execution is desired.
m = Segment number at which suspension of diagnostic execution is desired.

4. SYSTEM RESPONSE

NG = No good. The request has been denied. The message form is valid, but the request conflicts with current status.

PF = Printout follows. The request has been accepted. Followed by the EX:ALIT output message.

5. REFERENCES

Input Message(s):

STP:ALIT

Output Message(s):

EX:ALIT
EX:ASC
Software Release: 5E14 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Requests that maintenance exercises be performed on the remote switching module (RSM), optical remote switching module (ORM), or two-mile remote switching module (TRM) alarm and status circuit (ASC). This message is used for manual troubleshooting.

Format 1 activates a diagnostic on the ASC.

Format 2 executes a portion of a previously activated diagnostic.

Format 3 resets the diagnostic options and begins executing the previously activated diagnostic from the current point of suspension until a specified number of segments have been run.

Format 4 inverts the state of a previously activated diagnostic, from running to suspended or vice versa.

Format 5 transfers control from the current point of suspension to the beginning of the specified segment of a previously activated diagnostic, ignoring interim test failures.

To stop this exercise, use the STP:ASC input message. The circuit will remain out of service.

2. FORMAT

[1] EX:ASC=a,START[,GROW];
[2] EX:ASC=a,PH=g-h[&i][,UCL][,RAW][,SYNCH=d-e-f][,RPT[=c]][,TLP];
[3] EX:ASC=a,STEP=b[,UCL][,RAW][,SYNCH=d-e-f][,TLP];
[4] EX:ASC=a;
[5] EX:ASC=a,PAUSE=j-k;

3. EXPLANATION OF MESSAGE

GROW = Allow access to growth equipment.
RAW = Print raw test failure data.
TLP = Print ordered circuit pack list.
UCL = Execute unconditionally.
a = Switching module (SM) number.
b = The number of segments to be executed, beginning from the current point of suspension.
c = The number of times the exercise is to be repeated (1-32767). Default is 32,767.
d = The phase.
e = The segment.
f = The statement number.
g = The phase.
h = The first segment in phase ‘g’ to be executed.
i = The last segment in phase ‘g’ to be executed.
j = The phase.
k = The segment.

4. SYSTEM RESPONSE

NG = No good. Request denied because of a conflict with current status.
PF = Printout follows. Followed by the EX:ASC output message.

5. REFERENCES

Input Message(s):

    STP:ASC

Output Message(s):

    EX:ASC
EX:BTSR

**Software Release:** 5E14 and later

**Command Group:** SM

**Application:** 5

**Type:** Input

### 1. PURPOSE

Performs various exercises on the bootstrapper board (BTSR). This message is used primarily for manual troubleshooting.

Format 1 starts a diagnostic exercise program on the BTSR.

Format 2 begins executing the previously activated diagnostic program from the current point of suspension until the specified number of segments has been performed.

Format 3 suspends a running diagnostic program.

Format 4 allows a previously suspended exercise to continue from the current point of suspension until the completion of the original exercise. If the exercise is required to continue in the same mode as before the suspension, the diagnostic options should be set as before.

Format 5 executes a portion of a previously activated diagnostic program.

Format 6 transfers control from the current point of suspension to a beginning of the specified segment of a previously activated diagnostic program, ignoring interim test failures.

### 2. FORMAT

1.  EX:BTSR=a,START;
2.  EX:BTSR=a[,UCL][,RAW][,SYNCH=d-e-f],STEP=b[,TLP];
3.  EX:BTSR=a;
4.  EX:BTSR=a[,UCL][,RAW][,SYNCH=d-e-f][,RPT[=c]][,TLP];
5.  EX:BTSR=a[,UCL][,RAW][,SYNCH=d-e-f][,RPT[=c]],PH=g-h[,TLP];
6.  EX:BTSR=a,PAUSE=i-j;

### 3. EXPLANATION OF MESSAGE

- **RAW** = Print data from raw data test failure.
- **TLP** = Print the ordered pack replacement list.
- **UCL** = Unconditionally execute the removal.
- **a** = Switching module (SM) number.
- **b** = The number of segments to be executed, beginning from the current point of suspension. Ignore all specified repeat (RPT) options.
- **c** = The number of times the exercise is to be repeated. Default=32,767.
d = Phase of segment 'e' in statement 'f'.

e = Segment of statement 'f'.

f = Statement at the beginning of which a synchronizing pulse will be generated.

g = The phase whose segment(s) will be executed.

h = The segment or range of segments in phase 'g' to be executed.

i = Phase number at which suspension of diagnostic execution is desired.

j = Segment number at which suspension of diagnostic execution is desired.

4. SYSTEM RESPONSE

NG = No good. The request has been denied. The message form is valid, but the request conflicts with current status.

PF = Printout follows. The request was accepted. Followed by the EX:BTSR output message.

5. REFERENCES

Output Message(s):

EX:BTSR
EX:CDFI

Software Release: 5E14 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Performs maintenance exercises on an inter-remote switching module (RSM) communication link digital facilities interface (CDFI) circuit. This message is used for manual troubleshooting.

Format 1 activates a diagnostic on the CDFI.

Format 2 executes a portion of a previously activated diagnostic.

Format 3 resets the diagnostic options and begins executing the previously activated diagnostic from the current point of suspension until the specified number of segments have been run.

Format 4 inverts the state, from running to suspended or vice versa, of a previously activated diagnostic.

Format 5 transfers control from the current point of suspension to the beginning of the specified segment of a previously activated diagnostic, ignoring interim test failures.

To stop this exercise, use the STP:CDFI input message. The circuit will remain out of service.

2. FORMAT

[1] EX:CDFI=a-b-c,START[,GROW];

[2] EX:CDFI=a-b-c,PH=i[-j-k][,UCL][,RAW][,SYNCH=f-g-h][,RPT=[=e]][,TLP];

[3] EX:CDFI=a-b-c,STEP=d[,UCL][,RAW][,SYNCH=f-g-h][,TLP];

[4] EX:CDFI=a-b-c;

[5] EX:CDFI=a-b-c,PAUSE=l-m;

3. EXPLANATION OF MESSAGE

GROW = Allow access to growth equipment.

RAW = Print raw test failure data.

TLP = Print ordered circuit pack replacement list.

UCL = Execute unconditionally. Diagnostic will continue past all non-fatal errors.

a = Switching module (SM) number.

b = Digital line and trunk unit (DLTU) number.

c = CDFI number.

d = The number of segments to execute, beginning from the current point of suspension.

e = The repeat count, default is 32767.
= Generate a synchronizing pulse at the beginning of statement 'h' in segment 'g' of phase 'f'. For 'i', 'j', 'k', execute the specified segments of the phase, where:

- **i** = The phase.
- **j** = The first segment in phase 'i' to be executed.
- **k** = The last segment in phase 'i' to be executed.
- **l** = The phase at which to suspend the diagnostic.
- **m** = The segment at which to suspend the diagnostic.

### 4. SYSTEM RESPONSE

- **NG** = No good. The message syntax is valid, but the request conflicts with current system or equipment status. May include one of the following:
  - NOT STARTED UNIT IN GROWTH STATE.
  - SM DOES NOT EXIST.
  - SM UNEQUIPPED.
  - UNIT DOES NOT EXIST.

- **PF** = Printout follows. Followed by the EX:CDFI output message.

- **RL** = Retry later. The request cannot be executed now due to unavailable system resources.

### 5. REFERENCES

**Input Message(s):**

- **STP:CDFI**

**Output Message(s):**

- **EX:CDFI**
EX:CDI

Software Release: 5E14 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Interactively diagnoses the control data interface (CDI) unit. This message is used primarily for manual troubleshooting.

Format 1 starts a diagnostic exercise program on the CDI.

Format 2 resets the diagnostic options and begins executing the previously activated diagnostic program from the current point of suspension until the specified number of segments has been performed.

Format 3 inverts the state (from running to suspended or vice versa) of a previously activated diagnostic program.

Format 4 executes a portion of a previously activated diagnostic program.

Format 5 transfers control from the current point of suspension to the beginning of the specified segment of a previously activated diagnostic program, ignoring interim test failures.

To stop this exercise, use the STP:CDI input message. The unit will remain out of service.

2. FORMAT

[1] EX:CDI=a-b-c, START[,GROW];
[2] EX:CDI=a-b-c[,UCL][,RAW][,SYNCH=f-g-h][,STEP=d[,TLP];
[3] EX:CDI=a-b-c;
[4] EX:CDI=a-b-c[,UCL][,RAW][,SYNCH=f-g-h][,RPT=[e]],PH=i-j[,TLP];
[5] EX:CDI=a-b-c, PAUSE=k-l;

3. EXPLANATION OF MESSAGE

GROW = Allow access to growth equipment.
RAW = Print raw test failure data.
TLP = Print ordered pack list.
UCL = Execute unconditionally.
a = Switching module (SM) number.
b = Trunk unit number.
c = Service group number.
d = The number of segments to execute, beginning from the current point of suspension.
e = Number of times the exercise is to be repeated. (0-32,767) Default=32,767.
f = The phase that has state ‘h’ and segment ‘g’ (SM units only).
g = The segment that has statement ‘h’ (SM units only).
h = The statement at the beginning of which a synchronizing pulse is to be generated (SM units only).
i = The phase that has the segment(s) to be executed.
j = The segment or range of segments in phase ‘l’ to be executed.
k = Phase at which suspension of diagnostic execution is desired.
l = Segment number at which suspension of diagnostic execution is desired.

4. SYSTEM RESPONSE

NG = No good. The request has been denied. The message form is valid, but the request conflicts with current status.

PF = Printout follows. The request has been accepted. Followed by the EX:CDI output message.

5. REFERENCES

Input Message(s):

STP:CDI

Output Message(s):

EX:CDI
EX:CMP

Software Release: 5E14 and later
Command Group: CM
Application: 5
Type: Input

1. PURPOSE

Requests interactive diagnosis of a communication module processor (CMP). This message is used primarily for manual troubleshooting. Completion of this input message leaves the unit in the out-of-service (OOS) state.

Format 1 activates a diagnostic program on the CMP.

Format 2 resets the diagnostics options and begins executing the previously activated diagnostic program from the current point of suspension until the specified number of segments has been performed.

Format 3 inverts (toggles) the state of a previously activated diagnostic program from "running" to "suspended" or vice versa.

Format 4 transfers control from the current point of suspension to the beginning of the specified segment of a previously activated diagnostic program, ignoring interim test failures. It then executes the specified segment or segment range according to the specified options.

Format 5 transfers control from the current point of suspension to the beginning of the specified segment of a previously activated diagnostic program, ignoring interim test failures.

Note 1: If the unit is not OOS, the system will first remove the unit conditionally.

Note 2: To stop any of these exercises, use the STP:CMP input message.

Note 3: This command is not applicable to offices having CM3 vintage communication modules.

2. FORMAT

[1] EX:CMP=a-b,START[,GROW];

[2] EX:CMP=a-b[,UCL][,RAW],STEP=c[,TLP];

[3] EX:CMP=a-b;

[4] EX:CMP=a-b[,UCL][,RAW][,RPT=d],PH=e-f[&g][,TLP];


3. EXPLANATION OF MESSAGE

GROW = Interactively diagnose a CMP in the GROW state. If the CMP is GROW, this option must be input to perform the diagnostic.

RAW = Print raw test failure data.

TLP = Print the ordered pack list.

UCL = Execute tests unconditionally and print test failures rather than stopping after the first test failure.
a = Message switch side number.
b = CMP number.
c = Number of segments to be executed, beginning from the current point of suspension.
d = Number of times the diagnostic segment(s) are to be repeated (1 to 32,767; default 32,767).
e = The number of the phase (PH) that has the segment(s) to be executed.
f = Segment number, or the lower limit of a range of segment numbers, in phase 'e' to be executed.
g = Upper limit of a range of segment numbers in phase 'e' to be executed.
h = The number of the phase at which suspension of diagnostic execution is desired.
i = The segment number at which suspension of diagnostic execution is desired.

4. SYSTEM RESPONSE

NG = No good. The request has been denied. The message syntax is valid, but the request could not be processed. Refer to the APP:CM-IM-REASON appendix in the Appendixes section of the Input Messages manual for a list of possible reasons for denying the request.

PF = Printout follows. Followed by the EX:CMP output message.

RL = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

Input Message(s):

ABT: CMP
OP: DMQ--CM--SM
STP: CMP

Output Message(s):

EX: CMP

Input Appendix(es):

APP: CM--IM--REASON

Other Manual(s):
235-105-110 System Maintenance Requirements and Tools
235-105-220 Corrective Maintenance
235-105-250 System Recovery Procedures
235-700-300 Peripheral Diagnostic Language Reference
EX:CU

Software Release: 5E14 and later
Command Group: AM, CCS
Application: 5,3B
Type: Input

1. PURPOSE

Requests that an administrative module (AM) control unit (CU) be exercised in an interactive diagnostic mode. Refer to the EX:LDPARM, EX:LOOP, EX:PAUSE, EX:STEP, and EX:STOP input messages in the Input Messages manual.

2. FORMAT

EX:CU=a, CH=b[:[:RAW][:[,UCL]]], PH=c[, TLP][,{RPCN32|RPCN00|DFC|IOP}=d];

3. EXPLANATION OF MESSAGE

RAW
  = Print all the diagnostic failures. Default is to print the first five failures.

TLP
  = Execute the trouble locating procedure (TLP) at the conclusion of the diagnostic. This process generates a list of suspected faulty equipment.

NOTE: It is not recommended that the TLP and UCL parameters be specified together, as it may produce an improper TLP listing.

UCL
  = Execute unconditionally.

NOTE: This option does not override forced early terminations.

a
  = Member number.

b
  = Unit type and member number of the subunit beneath the CU. Valid subunit names and member numbers are listed in the APP:MEM-NUM-CU appendix in the Appendixes section of the Input Messages manual.

c
  = Execute the specified phase.

NOTE: The phase will not be executed until subsequent input messages from input messages EX:PAUSE, EX:LOOP, EX:STEP, and EX:LDPARM are input.

d
  = Member number of the disk file controller (DFC), input/output processor (IOP), or ring peripheral controller node (RPCN) to be used as a helper unit. When a helper unit is not required, the specified helper unit is ignored. When a helper unit is required but the specified helper unit is inappropriate or not available, the helper unit dependent tests are skipped.

4. SYSTEM RESPONSE

PF
  = Printout follows. Followed by the EX:CU output message.

RL
  = Retry later. The system is in an overload condition.

?I
  = General syntax error followed by the parameter position. May also include:
    - EXTRA KEYWORD = Duplicate or extraneous keywords were input.
- **INVALID KEYWORD** = The keyword in the stated parameter position is not a valid keyword.
- **MISSING DATA** = Data required for a keyword in the stated parameter block was not found.
- **MISSING KEYWORD** = A required keyword is missing from the input.

**?D**
= General syntax error in the data field, followed by the parameter position. Includes one of the following:
- **EXTRA KEYWORD** = Duplicate or extraneous keywords were input.
- **INVALID KEYWORD** = The keyword in the stated parameter position is not a valid keyword.
- **MISSING DATA** = Data required for the statement keyword was not found on the input line.
- **MISSING KEYWORD** = A required keyword is missing from the input.
- **RANGE ERROR** = Not a valid value for the statement parameter.

**?E**
= Input error of undetermined type.

### 5. REFERENCES

**Input Message(s):**

- DGN:CU
- EX:LDPARM
- EX:LOOP
- EX:PAUSE
- EX:STEP
- EX:STOP
- STOP:DMQ
- STP:DMQ

**Output Message(s):**

- ANALY:TLPFILE
- DGN:CU
- EX:CU

**Input Appendix(es):**

- APP:MEM-NUM-CU

**Other Manual(s):**
235-105-220  *Corrective Maintenance*
**EX:DCI**

**Software Release:** 5E14 and later  
**Command Group:** N/A  
**Application:** 5,3B  
**Type:** Input

1. **PURPOSE**
Exercises a dual serial channel/computer interconnect (DCI) in an interactive diagnostic mode.

2. **FORMAT**

```
EX:DCI=a[[:RAW]][,UCL]]:DATA,PH=b[,TLP];
```

3. **EXPLANATION OF MESSAGE**

- **RAW**
  = Prints all the diagnostic failures. Default is the first five failures.

- **TLP**
  = Executes the trouble locating procedure (TLP) at the conclusion of the diagnostic. This process generates a list of suspected faulty equipment.

  **NOTE:** It is not recommended that the TLP and UCL parameters be specified together, as it may produce an improper TLP listing.

- **UCL**
  = Executes unconditionally.

  **NOTE:** This option does not override forced early terminations.

- **a**
  = Member number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

- **b**
  = Number of the phase to be executed.

  **NOTE:** The phase will not be executed until subsequent messages from EX:PAUSE, EX:LOOP, EX:STEP, and EX:STOP are input.

4. **SYSTEM RESPONSE**

- **PF**
  = Printout follows. Followed by the EX:DCI output message.

- **RL**
  = Retry later. The system is in an overload condition.

- **?I**
  = General syntax error, followed by the parameter position and one of the following reasons:
  
  EXTRA KEYWORD = Duplicate or extraneous keywords were input.  
  INVALID KEYWORD = The keyword in the stated parameter position is not a valid keyword.  
  MISSING KEYWORD = A required keyword is missing from the input.

- **?D**
  = General syntax error in the data field, followed by the parameter position and one of the following reasons:
  
  EXTRA KEYWORD = Duplicate or extraneous keywords were input.  
  INVALID KEYWORD = The keyword in the stated parameter position is not a valid keyword.  
  MISSING DATA = Data required for the statement keyword was not found on the input line.  
  MISSING KEYWORD = A required keyword is missing from the input.
RANGE ERROR = Not a valid value for the statement parameter.

?E = Input error of undetermined type.

5. REFERENCES

Input Message(s):

DGN:DCI
EX:LOOP
EX:PAUSE
EX:STEP
EX:STOP
STOP:DMQ
STP:DMQ

Output Message(s):

ANALY:TLPFILE
DGN:DCI
EX:DCI

Input Appendix(es):

APP:RANGES

Other Manual(s):

235-105-220 Corrective Maintenance
EX:DCLU

**Software Release:** 5E14 and later  
**Command Group:** SM  
**Application:** 5  
**Type:** Input

1. PURPOSE

Interactively diagnoses (exercises) a SLC® 96 digital carrier line unit (DCLU). This message is used primarily for manual troubleshooting.

Format 1 starts a diagnostic exercise program on the DCLU. Format 2 executes a portion of a previously activated diagnostic program. Format 3 inverts the state (from running to suspended or vice versa) of a previously activated diagnostic program. Format 4 resets the diagnostic’s options and begins executing the previously activated diagnostic program from the current point of suspension until the specified number of segments has been performed. Format 5 transfers control from the current point of suspension to the beginning of the specified segment of a previously activated diagnostic program, ignoring interim test failures. To stop this exercise, use the STP:DCLU input message. The unit will remain out of service.

2. FORMAT

[1] `EX:DCLU=a-b-c,START[,GROW];`

[2] `EX:DCLU=a-b-c,PH=d[-e[&&f]][,UCL][,RAW][,SYNCH=g-h-i][,RPT=[j]] [,TLP];`

[3] `EX:DCLU=a-b-c;`

[4] `EX:DCLU(a,b,c),STEP=k[,UCL][,RAW][,SYNCH=(g,h,i)][,TLP];`

[5] `EX:DCLU=a-b-c,PAUSE=l-m;`

3. EXPLANATION OF MESSAGE

- **GROW** = Allow access to growth equipment.
- **RAW** = Print data from raw data test failure.
- **TLP** = Print the ordered pack list.
- **UCL** = Execute unconditionally.
- **a** = Switching module (SM) number.
- **b** = DCLU number.
- **c** = Service group number.
- **d** = The phase that has the segment(s) to be executed.
- **e** = The segment or upper limit of a range of segments in phase ‘d’ to be executed.
- **f** = Lower limit of a range of segments in phase ‘d’ to be executed.
- **g** = The phase that has statement ‘i’ and segment ‘h’ (SM units only).
h = The segment that has statement 'i' (SM units only).
i = The statement at the beginning of which a synchronizing pulse is to be generated (SM units only).
j = Number of times the exercise is to be repeated. Default is 32,767.
k = The number of segments to be executed, beginning from the current point of suspension.
l = The phase at which suspension of diagnostic execution is desired.
m = The segment number at which suspension of diagnostic execution is desired.

4. SYSTEM RESPONSE

NG = No good. The request has been denied. The message form is valid, but the request conflicts with current status.

PF = Printout follows. The request was accepted. Followed by the EX:DCLU output message.

5. REFERENCES

Input Message(s):

STP:DCLU

Output Message(s):

EX:DCLU
EX:DCTUCOM

Software Release: 5E14 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Interactively diagnoses (exercises) the directly connected test unit common board (DCTUCOM). This message is used primarily for manual troubleshooting.

Format 1 starts a diagnostic exercise program on the DCTUCOM.

Format 2 resets the diagnostic options and begins executing the previously activated diagnostic program from the current point of suspension until the specified number of segments has been performed.

Format 3 inverts the state (from running to suspended or vice versa) of a previously activated diagnostic program.

Format 4 executes a portion of a previously activated diagnostic program.

Format 5 transfers control from the current point of suspension to the beginning of the specified segment of a previously activated diagnostic program, ignoring interim test failures.

To stop this exercise, use input message STP:DCTUCOM. The unit will remain out of service.

2. FORMAT

[1] EX:DCTUCOM=a-b,START[,GROW];
[2] EX:DCTUCOM=a-b[,UCL][,RAW][,SYNCH=h-i-j],STEP=f[,TLP];
[3] EX:DCTUCOM=a-b;
[4] EX:DCTUCOM=a-b[,UCL][,RAW][,SYNCH=h-i-j][,RPT=[g]],PH=k-l[,TLP];
[5] EX:DCTUCOM:UNIT=a-b,PAUSE=m-n;

3. EXPLANATION OF MESSAGE

GROW = Allow access to growth equipment.
RAW = Print raw test failure data.
TLP = Print ordered pack replacement list.
UCL = Execute unconditionally.
a = Switching module (SM) number.
b = Directly connected test unit number in the SM.
f = The number of segments to be executed, beginning from the current point of suspension.
g = Number of times the exercise is to be repeated. Default=32,767.
h = The phase that has statement ’j’ and segment ’i’. 
i = The segment that has statement 'j'.

j = The statement at the beginning of which a synchronizing pulse is to be generated.

k = The phase of the segment(s) to be executed.

l = The segment or range of segments in phase 'k' to be executed.

m = The phase at which suspension of diagnostic execution is desired.

n = The segment number at which suspension of diagnostic execution is desired.

4. SYSTEM RESPONSE

NG = No good. The request has been denied. The message form is valid, but the request conflicts with current status.

PF = Printout follows. The request has been accepted. Followed by the EX:DCTUCOM output message.

5. REFERENCES

Input Message(s):

STP:DCTUCOM

Output Message(s):

EX:DCTUCOM
EX:DCTUPORT

Software Release: 5E14 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Requests interactive diagnostics (exercises) of the directly connected test unit port circuit (DCTUPORT). This message is used primarily for manual troubleshooting.

Format 1 starts a diagnostic exercise program on the DCTUPORT.

Format 2 resets the diagnostic options and begins executing the previously activated diagnostic program from the current point of suspension until the specified number of segments has been performed.

Format 3 inverts the state (from running to suspended or vice versa) of a previously activated diagnostic program.

Format 4 executes a portion of a previously activated diagnostic program.

Format 5 transfers control from the current point of suspension to the beginning of the specified segment of a previously activated diagnostic program, ignoring interim test failures.

To stop this exercise, use the STP:DCTUPORT input message. The unit will remain out of service.

2. FORMAT

[1] EX:DCTUPORT=a-b-c,START[,GROW];
[2] EX:DCTUPORT=a-b-c[,UCL][,RAW][,SYNCH=h-i-j],STEP=f[,TLP];
[3] EX:DCTUPORT=a-b-c;
[4] EX:DCTUPORT=a-b-c[,UCL][,RAW][,SYNCH=h-i-j][,RPT[=g]],PH=k-l[,TLP];
[5] EX:DCTUPORT=a-b-c,PAUSE=m-n;

3. EXPLANATION OF MESSAGE

GROW = Allow access to growth equipment.
RAW = Print raw test failure data.
TLP = Print ordered pack list.
UCL = Execute unconditionally.
a = Switching module (SM) number.
b = Directly connected test unit number in the SM.
c = Circuit number.
f = The number of segments to be executed, beginning from the current point of suspension.
g = Number of times the exercise is to be repeated. Default=32,767.
h = The phase that has statement 'j' and segment 'i'.

i = The segment that has statement 'j'.

j = The statement at the beginning of which a synchronizing pulse is to be generated.

k = The phase of the segment(s) to be executed.

l = The segment or range of segments in phase 'k' to be executed.

m = The phase at which suspension of diagnostic execution is desired.

n = The segment number at which suspension of diagnostic execution is desired.

4. SYSTEM RESPONSE

NG = No good. The request has been denied. The message form is valid, but the request conflicts with current status.

PF = Printout follows. The request has been accepted. Followed by the EX:DCTUPORT output message.

5. REFERENCES

Input Message(s):

STP:DCTUPORT

Output Message(s):

EX:DCTUPORT
EX:DFC

Software Release: 5E14 and later
Command Group: AM
Application: 5,3B
Type: Input

1. PURPOSE


2. FORMAT

EX:DFC=a[:[RAW][,UCL]],PH=b[,TLP][,CU=c];

3. EXPLANATION OF MESSAGE

RAW
  Prints all the diagnostic failures. Default is to print the first five failures.

TLP
  = Executes the trouble locating procedure (TLP) at the conclusion of the diagnostic. This process generates a list of suspected faulty equipment.

  NOTE: It is not recommended that the TLP and UCL parameters be specified together as it may produce an improper TLP listing.

UCL
  = Executes unconditionally.

  NOTE: This option does not override forced early terminations.

a
  = Member number.

b
  = Executes the specified phase.

  NOTE: The phase will not be executed until subsequent messages from the EX:LOOP, EX:PAUSE, EX:STEP and EX:STOP input messages are input.

c
  = Member number of the CU helper unit. When a helper unit is not required, the specified helper unit is not used. When a helper unit is required but the specified helper unit is inappropriate or unavailable, the helper unit dependent tests are skipped. The off-line CU is required as a helper unit when demand phase 15 is executed.

  NOTE: The helper CU must be out-of-service (OOS) and must be diagnosed as all tests pass (ATP) before it is used as a helper unit.

4. SYSTEM RESPONSE

PF
  = Printout follows. Followed by the EX:DFC output message.

5. REFERENCES

Input Message(s):

DGN:DFC
EX: LOOP
EX: PAUSE
EX: STEP
EX: STOP
STOP: DMQ
STP: DMQ

Output Message(s):

ANALY: TLPFILE
DGN: DFC
EX: DFC
EX:DFI

Software Release: 5E14 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Interactively diagnoses (exercises) the digital facility interface (DFI). This message is used primarily for manual troubleshooting.

Format 1 starts a diagnostic exercise program on the DFI.

Format 2 resets the diagnostic options and begins executing the previously activated diagnostic program from the current point of suspension until the specified number of segments has been performed.

Format 3 inverts the state (from running to suspended or vice versa) of a previously activated diagnostic program.

Format 4 executes a portion of a previously activated diagnostic program.

Format 5 transfers control from the current point of suspension to the beginning of the specified segment of a previously activated diagnostic program, ignoring interim test failures.

To stop this exercise, use input message STP:DFI. The unit will remain out-of-service (OOS).

2. FORMAT

[1] EX:DFI=a-b-c,START[,GROW];
[2] EX:DFI=a-b-c[,UCL][,RAW][,SYNCH=f-g-h],STEP=d[,TLP];
[3] EX:DFI=a-b-c;
[4] EX:DFI=a-b-c[,UCL][,RAW][,SYNCH=f-g-h][,RPT[e],PH=i-j[,TLP];
[5] EX:DFI=a-b-c,PAUSE=k-l;

3. EXPLANATION OF MESSAGE

GROW = Allow access to growth equipment.
RAW = Print raw test failure data.
TLP = Print ordered pack replacement list.
UCL = Execute unconditionally.
a = Switching module (SM) number.
b = Digital line-trunk unit number.
c = Digital facilities interface number.
d = The number of segments to execute, beginning from the current point of suspension.
\( e = \) Number of times the exercise is to be repeated. Default=32,767.

\( f = \) The number of the phase that has statement \( h \) and segment \( g \) (SM units only).

\( g = \) The number of the segment that has statement \( h \) (SM units only).

\( h = \) The number of the statement at the beginning of which a synchronizing pulse is to be generated (SM units only).

\( i = \) The number of the phase that has the segment(s) to be executed.

\( j = \) The number of the segment or range of segments in phase \( i \) to be executed.

\( k = \) The number of the phase at which suspension of diagnostic execution is desired.

\( l = \) The number of the segment number at which suspension of diagnostic execution is desired.

4. SYSTEM RESPONSE

\( NG = \) No good. The request has been denied. The message form is valid, but the request conflicts with current status.

\( PF = \) Printout follows. The request has been accepted. Followed by the EX:DFI output message.

5. REFERENCES

Input Message(s):

\( STP:DFI \)

Output Message(s):

\( EX:DFI \)
**EX:DFIH**

Software Release: 5E14 and later  
Command Group: SM  
Application: 5  
Type: Input

1. PURPOSE

Exercises a remote integrated services line unit (RISLU) host/remote digital facility interface circuit pair (DFIH). This message is used primarily for manual troubleshooting.

Format 1 activates the interactive diagnostic on the DFIH.

Format 2 executes a portion of a previously activated diagnostic.

Format 3 resets the diagnostics options and begins executing the previously activated diagnostic program from the current point of suspension until the specified number of segments (STEP parameter) has been performed.

Format 4 inverts the state of a previously activated diagnostic from running to suspended or vice versa. This message removes all previous options set.

Format 5 transfers control from the current point of suspension to the beginning of the specified segment of a previously activated diagnostic, ignoring interim test failures. When the requested phase and segment are reached, the exercise will pause.

**NOTE:** To stop any of these exercises, use the STP:DFIH input message. The unit will remain out-of-service (OOS).

2. FORMAT

[1] EX:DFIH=a-b-c,START[,GROW];

[2] EX:DFIH=a-b-c,PH=i[-j&k][,UCL][,RAW][,SYNCH=f-g-h][,RPT[e]][,TLP];

[3] EX:DFIH=a-b-c,STEP=d[,UCL][,RAW][,SYNCH=f-g-h][,TLP];

[4] EX:DFIH=a-b-c;

[5] EX:DFIH=a-b-c,PAUSE=l-m;

3. EXPLANATION OF MESSAGE

**GROW** = Allow access to growth equipment.

**RAW** = Print raw test failure data.

**TLP** = Print ordered circuit pack list.

**UCL** = Execute unconditionally. Diagnostic will continue past all nonfatal errors.

**a** = Switching module (SM) number.

**b** = RISLU digital line and trunk unit (DLTU) number

**c** = DFIH number.
d = The number of segments (STEP) to execute, beginning from the current point of suspension.

e = The number of times the test is to be repeated (RPT). If 'e' is not specified then the test repeats 32,767 times.

f = Number of the phase to generate a synchronizing pulse (SYNCH).

g = Number of the segment in phase 'f' to generate pulse.

h = Number of the statement in segment 'g' to generate pulse.

i = The number of the phase (PH) to be executed.

j = The number of the first segment in phase 'i' to be executed.

k = Upper limit of a range of segments in phase 'i' to be executed.

l = The number of the phase at which to suspend (PAUSE) the diagnostic.

m = The number of the segment at which to suspend the diagnostic.

4. SYSTEM RESPONSE

NG = No good.
   - NG-CONFLICT WITH UNIT STATE.
   - NG-SM DOES NOT EXIST.
   - NG-SM UNEQUIPPED.
   - NG-UNIT DOES NOT EXIST.

PF = Printout follows. Followed by the EX:DFIH output message.

RL = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

Input Message(s):

   STP:DFIH

Output Message(s):

   EX:DFIH
EX:DFTAC

Software Release: 5E14 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Interactively diagnoses (exercises) the distributing frame test access circuit (DFTAC) to determine whether it is in satisfactory working order. This message is used primarily for manual troubleshooting. The circuit is left out of service when the testing is completed.

Format 1 activates a diagnostic program on the DFTAC.
Format 2 executes a portion of a previously activated diagnostic program.
Format 3 transfers control from the current point of suspension to the beginning of the specified segment of a previously activated diagnostic program, ignoring interim test failures.
Format 4 resets the diagnostic options and begins executing the previously activated diagnostic program from the current point of suspension until the specified number of segments has been performed.
Format 5 inverts the state (from running to suspended or vice versa) of a previously activated diagnostic program.

To stop this exercise, use input message STP:DFTAC. The unit will remain out of service.

2. FORMAT

[1] EX:DFTAC=a-b-c-d,START[,GROW];
[2] EX:DFTAC=a-b-c-d[,]RAW[,]UCL[,]RPT=[f],[SYNCH=g-h-i],[PH=j-k[&l]][,]TLP;[
[3] EX:DFTAC=a-b-c-d,PAUSE=m-n;
[4] EX:DFTAC=a-b-c-d,STEP=e[,]RAW[,]UCL[,]SYNCH=g-h-i[,]TLP;

3. EXPLANATION OF MESSAGE

GROW = Allow access to growth equipment.
RAW = Print data from raw data test failure.
TLP = Print trouble locating procedure ordered pack list.
UCL = Print all test failures in the specified segment range.
a = Switching module (SM) number.
b = Unit number.
c = Service group number.
d = Board number.
e = The number of segments to execute, beginning from the current point of suspension.
f = The number of times the test is to be repeated (default is 32,767).
g = The number of the phase in which to generate a synch pulse.
h = The number of the segment in which to generate a synch pulse.
i = The number of the statement at the beginning of which a synchronous pulse is to be generated.
j = The number of the phase of the segment(s) to be executed.
k = The number of the segment or first segment of a range in phase \( j \) to be executed.
l = The number of the last segment of a range in phase \( j \) to be executed.
m = The number of the phase at which suspension of diagnostic execution is desired.
n = The segment number at which suspension of diagnostic execution is desired.

4. SYSTEM RESPONSE

NG = No good. The request has been denied. Invalid SM number, MSU number, or service group number.

PF = Printout follows. The request was accepted. Followed by the EX:DFTAC output message.

5. REFERENCES

Input Message(s):

STP:DFTAC

Output Message(s):

EX:DFTAC
EX:DIST

Software Release: 5E14 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Interactively diagnoses (exercises) the distribute point board (DIST). This message is used primarily for manual troubleshooting.

Format 1 starts a diagnostic exercise program on the distribute point board.

Format 2 resets the diagnostic options and begins executing the previously activated diagnostic program from the current point of suspension until the specified number of segments has been performed.

Format 3 inverts the state (from running to suspended or vice versa) of a previously activated diagnostic program.

Format 4 executes a portion of a previously activated diagnostic program.

Format 5 transfers control from the current point of suspension to the beginning of the specified segment of a previously activated diagnostic program, ignoring interim test failures.

To stop this exercise, use input message STP:DIST. The unit will remain out of service.

2. FORMAT

[1] EX:DIST=a-b-c-d,START[,GROW];
[2] EX:DIST=a-b-c-d[,UCL][,RAW][,SYNCH=g-h-i],STEP=e[,TLP];
[4] EX:DIST=a-b-c-d[,UCL][,RAW][,SYNCH=g-h-i][,RPT[=f]],PH=j-k[,TLP];
[5] EX:DIST=a-b-c-d,PAUSE=l-m;

3. EXPLANATION OF MESSAGE

GROW = Allow access to growth equipment.
RAW = Print raw test failure data.
TLP = Print ordered pack replacement list.
UCL = Execute unconditionally.
a = Switching module (SM) number.
b = Metallic service unit number.
c = Service group number.
d = Board number.
e = The number of segments to be executed, beginning from the current point of suspension.
\( f \)  = Number of times the exercise is to be repeated. Default=32,767.

\( g \)  = The number of the phase that has statement ‘\( i \)’ and segment ‘\( h \)’ (SM units only).

\( h \)  = The number of the segment that has statement ‘\( i \)’ (SM units only).

\( i \)  = The number of the statement at the beginning of which a synchronizing pulse is to be generated (SM units only).

\( j \)  = The number of the phase that has the segment(s) to be executed.

\( k \)  = The number of the segment or range of segments in phase ‘\( j \)’ to be executed.

\( l \)  = The number of the phase at which suspension of diagnostic execution is desired.

\( m \)  = The segment number at which suspension of diagnostic execution is desired.

4. SYSTEM RESPONSE

NG = No good. The request has been denied. The message form is valid, but the request conflicts with current status.

PF = Printout follows. The request has been accepted. Followed by the EX:DIST output message.

5. REFERENCES

Input Message(s):

STP:DIST

Output Message(s):

EX:DIST
EX:DISTPT

Software Release: 5E14 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Requests that a metallic service unit (MSU) / modular metallic service unit (MMSU) distribute point be exercised. Format 1 opens the distribute point, Format 2 closes the distribute point, and Format 3 sends pulses on the distribute point. This message is used for manual troubleshooting.

2. FORMAT

EX:DISTPT=a-b-c-d-e,{OPEN|CLOSE|PULSE=f};

3. EXPLANATION OF MESSAGE

a = Switching module (SM) number.
b = Metallic service unit number.
c = Service group number.
d = Board number. Valid value(s): MSU MMSU
e = Distribute point number.
f = Number of pulses to be sent.

4. SYSTEM RESPONSE

PF = Printout follows. The request has been accepted. Followed by the EX:DISTPT output message.

5. REFERENCES

Output Message(s):

EX:DISTPT
EX:DLI

Software Release: 5E14 and later
Command Group: CM
Application: 5
Type: Input

1. PURPOSE

Requests that the dual link interface (DLI) be exercised in a switching module (SM) on the specified office network and timing complex (ONTC) side in an interactive mode.

Format 1 activates the interactive diagnostic program.

Format 2 begins executing the previously activated diagnostic program from the current point of suspension until the specified number of segments has been performed. The number of segments is given by the STEP parameter.

Format 3 causes a previously activated diagnostic program to suspend immediately, rather than completing the previous input message (valid after a input message of Format 2 or 5).

Format 4 resets the diagnostic options and resumes executing the previously activated diagnostic program from the current point of suspension. This format is used to restart the exercise after suspending it using Format 3.

Format 5 executes the requested phase or phases of a previously activated diagnostic program.

Format 6 transfers control from the current point of suspension to the beginning of the specified phase and segment of a previously activated diagnostic program, ignoring interim test failures. When the requested phase and segment are reached, the exercise will pause.

NOTE: Use the STP:DLI message to terminate the exercise.

2. FORMAT

[1] EX:DLI=a-b,START[,GROW];
[2] EX:DLI=a-b[,UCL][,RAW],STEP=c[,TLP][,SYNCH=j-k-l];
[3] EX:DLI=a-b;
[4] EX:DLI=a-b[,UCL][,RAW][,RPT=[d]][,TLP];
[5] EX:DLI=a-b[,UCL][,RAW][,RPT=[d]],PH=e-f&g[,TLP];
[6] EX:DLI=a-b,PAUSE=h-i;

3. EXPLANATION OF MESSAGE

GROW = If an SM is in the growth or special growth equipage state, this option must be input for an exercise to be run on that dual link interface (DLI).

RAW = Print the raw test results for each phase executed.

TLP = Execute the trouble location procedure at the conclusion of the exercise. This process prints an ordered suspect pack list if a test fails.

UCL = Unconditionally print all test results rather than just printing the first failing phase.
a = SM number.
b = Office network and timing complex (ONTC) side.
c = Number of segments to be executed, beginning at the current point of suspension.
d = Number of times the test is to be repeated (default is 32,767).
e = Number of the phase to be executed.
f = Lower limit of a range of segment numbers.
g = Upper limit of a range of segments to be executed in the phase.
h = Number of the phase at which suspension of diagnostic execution is desired.
i = Number of the segment of phase at which suspension of diagnostic execution is desired.
j = The number of the phase that has statement 'g' and segment 'f'.
k = The number of the segment that has statement 'g'.
l = The number of the statement at the beginning of which a synchronizing pulse is to be generated.

4. SYSTEM RESPONSE

NG = No good. The request has been denied. The message syntax is valid, but the request could not be processed. Refer to the APP:CM-IM-REASON appendix in the Appendixes section of the Input Messages manual for a list of possible reasons for denying the request.

PF = Printout follows. Followed by one or more DGN:DLI message(s).

RL = Retry later. The request cannot be executed now because the communication module (CM) deferred maintenance queue (DMQ) is full.

5. REFERENCES

Input Message(s):

ABT:DLI
DGN:DLI
STP:DLI

Input Appendix(es):

APP:CM-IM-REASON

Output Message(s):

DGN:DLI
EX:DLI
Other Manual(s):
235-105-250  System Recovery Procedures
EX:DUIC

Software Release: 5E14 and later  
Command Group: AM  
Application: 5,3B  
Type: Input

1. PURPOSE


2. FORMAT

EX:DUIC=a[,RAW][,UCL],PH=b[,TLP][,CONT];

3. EXPLANATION OF MESSAGE

RAW = Prints all the diagnostic failures. Default is the first five failures.

TLP = Executes the trouble locating procedure (TLP) at the conclusion of the diagnostic. This process generates a list of suspected faulty equipment.

NOTE: It is not recommended that the TLP and UCL parameters be specified together, as it may produce an improper TLP listing.

UCL = Executes unconditionally.

NOTE: This option does not override forced early terminations.

a = Member number.

b = Number of the phase to be executed.

NOTE: The phase will not be executed until subsequent messages from the EX:LOOP, EX:PAUSE, EX:STEP, and EX:STOP input messages are input.

4. SYSTEM RESPONSE

PF = Printout follows. Followed by the EX:DUIC output message.

5. REFERENCES

Input Message(s):

DGN:DUIC  
EX:LOOP  
EX:PAUSE  
EX:STEP  
EX:STOP  
STOP:DMQ  
STP:DMQ

Output Message(s):
ANALY: TLPFILE
DGN: DUIC
EX: DUIC
**EX:EAN**

**Software Release:** 5E14 and later  
**Command Group:** SM  
**Application:** 5  
**Type:** Input

1. **PURPOSE**

Interactively diagnoses (exercises) the equipment access network (EAN). This message is used primarily for manual troubleshooting.

Format 1 starts a diagnostic exercise program on the EAN.

Format 2 resets the diagnostic options and begins executing the previously activated diagnostic program from the current point of suspension until the specified number of segments has been performed.

Format 3 inverts the state (from running to suspended or vice versa) of a previously activated diagnostic program.

Format 4 executes a portion of a previously activated diagnostic program.

Format 5 transfers control from the current point of suspension to the beginning of the specified segment of a previously activated diagnostic program, ignoring interim test failures.

To stop this exercise, use input message STP:EAN. The unit will remain out of service.

2. **FORMAT**

   [1]  \( \text{EX:EAN=a-b,START[,GROW]}; \)

   [2]  \( \text{EX:EAN=a-b[,UCL][,RAW][,SYNCH=h-i-j][,STEP=f[,TLP]];} \)

   [3]  \( \text{EX:EAN=a-b;} \)

   [4]  \( \text{EX:EAN=a-b[,UCL][,RAW][,SYNCH=h-i-j][,RPT=[g]],PH=k-l[,TLP];} \)

   [5]  \( \text{EX:EAN=a-b,PAUSE=m-n;} \)

3. **EXPLANATION OF MESSAGE**

   - **GROW** = Allow access to growth equipment.
   - **RAW** = Print raw test failure data.
   - **TLP** = Print ordered pack list.
   - **UCL** = Execute unconditionally.
   - **a** = Switching module (SM) number.
   - **b** = Directly connected test unit number in the SM.
   - **f** = The number of segments to be executed, beginning from the current point of suspension.
   - **g** = Number of times the test is to be repeated. Default=32,767.
\[ h = \text{The number of the phase that has statement 'j' and segment 'i'.} \]
\[ i = \text{The number of the segment that has statement 'j'.} \]
\[ j = \text{The number of the statement at the beginning of which a synchronizing pulse is to be generated.} \]
\[ k = \text{The number of the phase of the segment(s) to be executed.} \]
\[ l = \text{The number of the segment or range of segments in phase 'k' to be executed.} \]
\[ m = \text{The number of the phase at which suspension of diagnostic execution is desired.} \]
\[ n = \text{The number of the segment number at which suspension of diagnostic execution is desired.} \]

4. SYSTEM RESPONSE

NG = No good. The request has been denied. The message form is valid, but the request conflicts with current status.

PF = Printout follows. The request has been accepted. Followed by the EX:EAN output message.

5. REFERENCES

Input Message(s):

STP:EAN

Output Message(s):

EX:EAN
EX:FPC

Software Release: 5E14 and later
Command Group: CM
Application: 5
Type: Input

1. PURPOSE

Requests that the foundation peripheral controller (FPC) be exercised in an interactive mode. This message is used primarily for manual troubleshooting.

Format 1 activates the interactive diagnostic program.

Format 2 begins executing the previously activated diagnostic program from the current point of suspension until the specified number of segments has been performed. The number of segments is given by the STEP parameter.

Format 3 executes the requested phase and segment or range of segments of a previously activated diagnostic program.

Format 4 causes a previously activated diagnostic program to suspend immediately, rather than completing the previous message (valid after using either Format 2 or 3).

Format 5 resets the diagnostic options and resumes executing the previously activated diagnostic program from the current point of suspension. This format is used to restart the exercise after suspending it using Format 4.

Format 6 transfers control from the current point of suspension to the beginning of the specified phase and segment of a previously activated diagnostic program, ignoring interim test failures. When the requested phase and segment are reached, the exercise will pause.

Note 1: Use the STP:FPC message to terminate the exercise. Also, execute Format 1 first before attempting to use any of the other formats.

Note 2: This command is not applicable to offices having CM3 vintage communication modules.

2. FORMAT

[1] EX:FPC=a,START;

[2] EX:FPC=a[,UCL][,RAW],STEP=b[,TLP];

[3] EX:FPC=a[,UCL][,RAW][,RPT=[c]],PH=d-e[&amp;&amp;f][,TLP];

[4] EX:FPC=a;

[5] EX:FPC=a[,UCL][,RAW][,RPT=[c]][,TLP];

[6] EX:FPC=a,PAUSE=g-h;

3. EXPLANATION OF MESSAGE

RAW = Print raw test failure data.

TLP = Print the ordered suspected pack list if a test fails.

UCL = Print all test results unconditionally rather than just printing the first failing test.
a = FPC side (0 or 1).
b = The number of segments to be executed, beginning from the current point of suspension. Ignore all specified RPT options.
c = Number of times the exercise is to be repeated (default is 32,767). Ignore if the STEP option is specified.
d = The number of the phase to be executed.
e = The number of the segment in phase 'd' to be executed, or the lower limit in a range of segments.
f = Upper limit in a range of segments to be executed in phase 'd'.
g = The phase number at which suspension of the diagnostic execution is desired.
h = The segment of phase 'g' at which suspension of the diagnostic execution is desired.

4. SYSTEM RESPONSE

NG = No good. The request has been denied. The message syntax is valid, but the request could not be processed.
PF = Printout follows. Followed by the EX:FPC output message.
RL = Retry later. The request cannot be executed now.

5. REFERENCES

Input Message(s):

   ABT:FPC
   DGN:FPC
   STP:FPC

Input Appendix(es):

   APP:CM-IM-REASON

Output Message(s):

   EX:FPC

Other Manual(s):

235-105-210  Routine Operations and Maintenance
235-105-220  Corrective Maintenance
EX:GDSF

Software Release: 5E14 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Interactively diagnoses the global digital services function (GDSF) circuit. This message is used primarily for manual troubleshooting. Technical support may be required to determine the phases, segments, or statements to be used for this input message. Refer to the TECHNICAL ASSISTANCE portion of the INTRODUCTION section of the Input Messages manual.

Format 1 activates a diagnostic program on the GDSF board. Format 2 executes a portion of a previously activated diagnostic program. Format 3 inverts the state (from running to suspended or vice versa) of a previously activated diagnostic program. Format 4 resets the diagnostic option and begin executing the previously activated diagnostic program from the current point of suspension until the specified number of segments has been performed. Format 5 transfers control from the current point of suspension to the beginning of the specified segment of a previously activated diagnostic program, ignoring interim test failures. To stop this exercise, use input message STP:GDSF. The unit will remain out of service.

2. FORMAT

[1] EX:GDSF=a-b,START[,GROW];
[2] EX:GDSF=a-b,PH=h-i[,UCL][,RAW][,SYNCH=e-f-g][,RPT[=d]][,TLP];
[3] EX:GDSF=a-b;
[4] EX:GDSF=a-b,STEP=c[,UCL][,RAW][,SYNCH=e-f-g][,TLP];
[5] EX:GDSF=a-b,PAUSE=j-k;

3. EXPLANATION OF MESSAGE

GROW = Allow access to growth equipment.
RAW = Print raw test failure data.
UCL = Execute unconditionally. DGN will continue past all non-fatal failures.
a = Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
b = GDSF number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
c = The number of segments to be executed, beginning from the current point of suspension.
d = Number of times the test is to be repeated. (default is 32,767).
e = The number of the phase that has statement ’g’ and segment ’f’ (SM units only).
f = The number of the segment that has statement ’g’ (SM units only).
g = The number of the statement at the beginning of which a synchronizing pulse is to be generated (SM units only).

h = The phase of the segment(s) to be executed.

i = The segment or range of segments in phase ‘h’ to be executed.

j = The number of the phase at which suspension of diagnostic execution is desired.

k = The segment number at which suspension of diagnostic execution is desired.

4. SYSTEM RESPONSE

NG = No good. The request has been denied. The message form is valid, but the request conflicts with current status.

PF = Printout follows. The request has been accepted. Followed by the EX:GDSF output message.

5. REFERENCES

Input Message(s):

STP:GDSF

Output Message(s):

EX:GDSF

Input Appendix(es):

APP:RANGES
EX:GDSUCOM

Software Release: 5E14 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Requests interactive diagnostics (exercises) of the global digital service circuit unit common (GDSUCOM) board. This message is used primarily for manual troubleshooting.

Format 1 starts a diagnostic exercise program on the GDSUCOM board.

Format 2 resets the diagnostic options and begins executing the previously activated diagnostic program from the current point of suspension until the specified number of segments has been performed.

Format 3 inverts the state (from running to suspended or vice versa) of a previously activated diagnostic program.

Format 4 executes a portion of a previously activated diagnostic program.

Format 5 transfers control from the current point of suspension to the beginning of the specified segment of a previously activated diagnostic program, ignoring interim test failures.

To stop this exercise, use input message STP:GDSUCOM. The unit will remain out of service.

2. FORMAT

[1] EX:GDSUCOM=a-b-c,START[\[,GROW\]];  
[2] EX:GDSUCOM=a-b-c[,UCL][,RAW][,SYNCH=f-g-h],STEP=d[,TLP];  
[3] EX:GDSUCOM=a-b-c;  
[4] EX:GDSUCOM=a-b-c[,UCL][,RAW][,SYNCH=f-g-h][,RPT[=e]],PH=i-j[,TLP];  
[5] EX:GDSUCOM=a-b-c,PAUSE=k-l;

3. EXPLANATION OF MESSAGE

GROW = Allow access to growth equipment.
 RAW = Print raw test failure data.
 TLP = Print ordered pack list.
 UCL = Execute unconditionally.
 a = Switching module (SM) number.
 b = Global digital service unit number.
 c = Service group number.
 d = The number of segments to be executed, beginning from the current point of suspension.
e = Number of times the exercise is to be repeated. Default=32,767.
f = The number of the phase that has statement 'h' and segment 'g' (SM units only).
g = The number of the segment that has statement 'h' (SM units only).
h = The number of the statement at the beginning of which a synchronizing pulse is to be generated (SM units only).
i = The number of the phase of the segment(s) to be executed.
j = The number of the segment or range of segments in phase 'i' to be executed.
k = The number of the phase at which suspension of diagnostic execution is desired.
l = The number of the segment number at which suspension of diagnostic execution is desired.

4. SYSTEM RESPONSE

NG = No good. The request has been denied. The message form is valid, but the request conflicts with current status.
PF = Printout follows. The request has been accepted. Followed by the EX:GDSUCOM output message.

5. REFERENCES

Input Message(s):

STP:GDSUCOM

Output Message(s):

EX:GDSUCOM
EX:GDXACC

Software Release: 5E14 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Requests interactive diagnostic (exercises) of the gated diode crosspoint access (GDXACC). This message is used primarily for manual troubleshooting.

Format 1 starts a diagnostic exercise program on the GDXACC.

Format 2 resets the diagnostic options and begins executing the previously activated diagnostic program from the current point of suspension until the specified number of segments has been performed.

Format 3 inverts the state (from running to suspended or vice versa) of a previously activated diagnostic program.

Format 4 executes a portion of a previously activated diagnostic program.

Format 5 transfers control from the current point of suspension to the beginning of the specified segment of a previously activated diagnostic program, ignoring interim test failures.

To stop this exercise, use the STP:GDXACC input message. The unit will remain out of service.

2. FORMAT

[1] EX:GDXACC=a-b-c,START[,GROW];

[2] EX:GDXACC=a-b-c[,UCL][,RAW][,SYNCH=f-g-h],STEP=d[,TLP];

[3] EX:GDXACC=a-b-c;

[4] EX:GDXACC=a-b-c[,UCL][,RAW][,SYNCH=f-g-h][,RPT[=e]],PH=i-j[,TLP];

[5] EX:GDXACC=a-b-c,PAUSE=k-l;

3. EXPLANATION OF MESSAGE

GROW = Allow access to growth equipment.

RAW = Print raw test failure data.

TLP = Print ordered pack list.

UCL = Execute unconditionally.

a = Switching module (SM) number.

b = Line unit number in the SM.

c = Service group number.

d = The number of segments to be executed, beginning from the current point of suspension.

e = Number of times the test is to be repeated. Default=32,767.
f = The number of the phase that has statement 'h' and segment 'g' (SM units only).

g = The number of the segment that has statement 'h' (SM units only).

h = The number of the statement at the beginning of which a synchronizing pulse is to be generated (SM units only).

i = The number of the phase of the segment(s) to be executed.

j = The number of the segment or range of segments in phase 'i' to be executed.

k = The number of the phase at which suspension of diagnostic execution is desired.

l = The segment number at which suspension of diagnostic execution is desired.

4. SYSTEM RESPONSE

NG = No good. The request has been denied. The message form is valid, but the request conflicts with current status.

PF = Printout follows. The request has been accepted. Followed by the EX:GDXACC output message.

5. REFERENCES

Input Message(s):

STP:GDXACC

Output Message(s):

EX:GDXACC
EX:GDXC

**Software Release:** 5E14 and later  
**Command Group:** SM  
**Application:** 5  
**Type:** Input

1. **PURPOSE**

Requests interactive diagnostics (exercises) of the gated diode crosspoint compensator (GDXC). This message is used primarily for manual troubleshooting.

Format 1 starts a diagnostic exercise program on the GDXC.

Format 2 resets the diagnostic options and begins executing the previously activated diagnostic program from the current point of suspension until the specified number of segments has been performed.

Format 3 inverts the state (from running to suspended or vice versa) of a previously activated diagnostic program.

Format 4 executes a portion of a previously activated diagnostic program.

Format 5 transfers control from the current point of suspension to the beginning of the specified segment of a previously activated diagnostic program, ignoring interim test failures.

To stop this exercise, use the STP:GDXC input message. The unit will remain out-of-service (OOS).

2. **FORMAT**

[1] `EX:GDXC=a-b-c-d,START[,GROW];`
[2] `EX:GDXC=a-b-c-d[,UCL][,RAW][,SYNCH=g-h-i],STEP=e[,TLP];`
[4] `EX:GDXC=a-b-c-d[,UCL][,RAW][,SYNCH=g-h-i][,RPT[=f]],PH=j-k[,TLP];`
[5] `EX:GDXC=a-b-c-d,PAUSE=l-m;`

3. **EXPLANATION OF MESSAGE**

- **GROW** = Allow access to growth equipment.
- **RAW** = Print raw test failure data.
- **TLP** = Print ordered pack list.
- **UCL** = Execute unconditionally.
- **a** = Switching module (SM) number.
- **b** = Metallic service unit number.
- **c** = Service group number.
- **d** = Board number.
- **e** = The number of segments to be executed, beginning from the current point of suspension.
f = Number of times the test is to be repeated. Default=32,767.
g = The number of the phase that has statement 'i' and segment 'h' (SM units only).
h = The number of the segment that has statement 'i' (SM units only).
i = The number of the statement at the beginning of which a synchronizing pulse is to be generated (SM units only).
j = The number of the phase of the segment(s) to be executed.
k = The number of the segment or range of segments in phase 'j' to be executed.
l = The number of the phase at which suspension of diagnostic execution is desired.
m = The segment number at which suspension of diagnostic execution is desired.

4. SYSTEM RESPONSE

NG = No good. The request has been denied. The message form is valid, but the request conflicts with current status.

PF = Printout follows. The request has been accepted. Followed by the EX:GDXC output message.

5. REFERENCES

Input Message(s):

STP:GDXC

Output Message(s):

EX:GDXC
**EX:GDXCON**

**Software Release:** 5E14 and later  
**Command Group:** SM  
**Application:** 5  
**Type:** Input

### 1. PURPOSE

Requests interactive diagnostic (exercises) of the gated diode crosspoint control (GDXCON). This message is used primarily for manual troubleshooting.

Format 1 starts a diagnostic exercise program on the GDXCON.

Format 2 resets the diagnostic options and begins executing the previously activated diagnostic program from the current point of suspension until the specified number of segments has been performed.

Format 3 inverts the state (from running to suspended or vice versa) of a previously activated diagnostic program.

Format 4 executes a portion of a previously activated diagnostic program.

Format 5 transfers control from the current point of suspension to the beginning of the specified segment of a previously activated diagnostic program, ignoring interim test failures.

To stop this exercise, use input message STP:GDXCON. The unit will remain out of service.

### 2. FORMAT

1. \[1\]  EX:GDXCON=a-b-c,START[,GROW];  
2. \[2\]  EX:GDXCON=a-b-c[,UCL][,RAW][,SYNCH=f-g-h],STEP=d[,TLP];  
3. \[3\]  EX:GDXCON=a-b-c;  
4. \[4\]  EX:GDXCON=a-b-c[,UCL][,RAW][,SYNCH=f-g-h][,RPT=[e]],PH=i-j[,TLP];  
5. \[5\]  EX:GDXCON=a-b-c,PAUSE=k-l;

### 3. EXPLANATION OF MESSAGE

- **GROW**  
  = Allow access to growth equipment.

- **RAW**  
  = Print raw test failure data.

- **TLP**  
  = Print ordered pack list.

- **UCL**  
  = Execute unconditionally.

- **a**  
  = Switching module (SM) number.

- **b**  
  = Line unit number in the SM.

- **c**  
  = Service group number.

- **d**  
  = The number of segments to execute, beginning from the current point of suspension.

- **e**  
  = Number of times the test is to be repeated. Default=32,767.
f = The number of the phase that has statement ‘h’ and segment ‘g’ (SM units only).
g = The number of the segment that has statement ‘h’ (SM units only).
h = The number of the statement at the beginning of which a synchronizing pulse is to be generated (SM units only).
i = The number of the phase of the segment(s) to be executed.
j = The number of the segment or range of segments in phase ‘i’ to be executed.
k = The number of the phase at which suspension of diagnostic execution is desired.
l = The segment number at which suspension of diagnostic execution is desired.

4. SYSTEM RESPONSE

NG = No good. The request has been denied. The message form is valid, but the request conflicts with current status.

PF = Printout follows. The request has been accepted. Followed by the EX:GDXCON output message.

5. REFERENCES

Input Message(s):

STP : GDXCON

Output Message(s):

EX : GDXCON
EX:GRID

Software Release: 5E14 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Requests interactive diagnostic (exercises) of the gated diode crosspoint grid (GRID). This message is used primarily for manual troubleshooting.

Format 1 starts a diagnostic exercise program on the GRID.

Format 2 resets the diagnostic options and begins executing the previously activated diagnostic program from the current point of suspension until the specified number of segments has been performed.

Format 3 inverts the state (from running to suspended or vice versa) of a previously activated diagnostic program.

Format 4 execute a portion of a previously activated diagnostic program.

Format 5 transfers control from the current point of suspension to the beginning of the specified segment of a previously activated diagnostic program, ignoring interim test failures.

To stop this exercise, use input message STP:GRID. The unit will remain out of service.

2. FORMAT

[1] EX:GRID=a-b-c,START[,GROW];
[2] EX:GRID=a-b-c[,UCL][,RAW][,SYNCH=f-g-h],STEP=d[,TLP];
[3] EX:GRID=a-b-c;
[4] EX:GRID=a-b-c[,UCL][,RAW][,SYNCH=f-g-h][,RPT[e]],PH=i-j[,TLP];
[5] EX:GRID=a-b-c,PAUSE=k-l;

3. EXPLANATION OF MESSAGE

GROW = Allow access to growth equipment.
RAW = Print raw test failure data.
TLP = Print ordered pack list.
UCL = Execute unconditionally.

a = Switching module (SM) number.
b = Line unit number on the SM.
c = Grid number.
d = The number of segments to execute, beginning from the current point of suspension.
e = Number of times the test is to be repeated. Default=32,767.
f = The number of the phase that has statement 'h' and segment 'g' (SM units only).
g = The number of the segment that has statement 'h' (SM units only).
h = The number of the statement at the beginning of which a synchronizing pulse is to be generated (SM units only).
i = The number of the phase of the segment(s) to be executed.
j = The number of the segment or range of segments in phase 'i' to be executed.
k = The number of the phase at which suspension of diagnostic execution is desired.
l = The number of the segment number at which suspension of diagnostic execution is desired.

4. SYSTEM RESPONSE

NG = No good. The request has been denied. The message form is valid, but the request conflicts with current status.

PF = Printout follows. The request has been accepted. Followed by the EX:GRID output message.

5. REFERENCES

Input Message(s):

STP:GRID

Output Message(s):

EX:GRID
EX:GRIDBD

Software Release: 5E14 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Requests interactive diagnostic (exercises) of the line unit model 2 (LU2) or line unit model 3 (LU3) grid board. This message is used primarily for manual troubleshooting.

Format 1 starts a diagnostic exercise program on the grid board.

Format 2 resets the diagnostic options and begins executing the previously activated diagnostic program from the current point of suspension until the specified number of segments has been performed.

Format 3 inverts the state (from running to suspended or vice versa) of a previously activated diagnostic program.

Format 4 executes a portion of a previously activated diagnostic program.

Format 5 transfers control from the current point of suspension to the beginning of the specified segment of a previously activated diagnostic program, ignoring interim test failures.

To stop this exercise, use the STP:GRIDBD input message. The unit will remain out of service.

2. FORMAT

[1] EX:GRIDBD=a-b-c-d,START[,GROW];
[2] EX:GRIDBD=a-b-c-d[,UCL][,RAW][,SYNCH=e-f-g],STEP=h[,TLP];
[4] EX:GRIDBD=a-b-c-d[,UCL][,RAW][,SYNCH=e-f-g][,RPT [=i]],PH=j-k[&l]

[5] EX:GRIDBD=a-b-c-d,PAUSE=m-l;

3. EXPLANATION OF MESSAGE

GROW = Allow access to growth equipment.
RAW = Print data from raw data test failure.
TLP = Print the ordered pack list.
UCL = Execute unconditionally.

a = Switching module (SM) number.
b = Line unit number.
c = Grid number. Valid value(s):
LU2 = 0-7
LU3 = 0-9
d = Board number.

e = The number of the phase that has statement 'g' and segment 'f'.

f = The number of the segment that has statement 'g'.

g = The number of the statement at the beginning of which a synchronizing pulse is to be generated.

h = The number of segments to execute, beginning from the current point of suspension.

i = The number of times the test is to be repeated. If 'i' is not specified, the test will be repeated 32,767 times.

j = The number of the phase of the segment(s) to be executed.

k = The number of the segment or lower segment of range of segments in phase 'j' to be executed.

l = Upper limit of segment range.

m = The number of the phase at which suspension of diagnostic execution is desired.

n = The segment number at which suspension of diagnostic execution is desired.

4. SYSTEM RESPONSE

NG = No good. The request has been denied. The message form is valid, but the request conflicts with current status.

PF = Printout follows. Followed by the EX:GRIDBD output message.

RL = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

Input Message(s):

STP:GRIDBD

Output Message(s):

EX:GRIDBD
EX:HDFI

Software Release: 5E14 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Performs maintenance exercises on the host switching module (HSM) digital facilities interface (HDFI) circuit. This message is used for manual troubleshooting.

Format 1 starts a diagnostic exercise program on the HDFI.

Format 2 resets the diagnostic options and begins executing the previously activated diagnostic from the current point of suspension until the specified number of segments have been run.

Format 3 inverts the state of a previously activated diagnostic from running to suspended or vice versa.

Format 4 executes a portion of a previously activated diagnostic program.

Format 5 transfers control from the current point of suspension to the beginning of the specified segment of a previously activated diagnostic, ignoring interim test failures.

To stop this exercise, use the STP:HDFI input message. The circuit will remain out-of-service (OOS).

2. FORMAT

[1] EX:HDFI=a-b-c,START[,GROW];
[2] EX:HDFI=a-b-c[,UCL][,RAW][,SYNCH=f-g-h],STEP=d[,TLP];
[3] EX:HDFI=a-b-c;
[4] EX:HDFI=a-b-c[,UCL][,RAW][,SYNCH=f-g-h][,RPT [=e]],PH=i-j[,TLP];
[5] EX:HDFI=a-b-c,PAUSE=k-l;

3. EXPLANATION OF MESSAGE

GROW = Allow access to growth equipment.
RAW = Print raw test failure data.
TLP = Print ordered circuit pack list.
UCL = Execute unconditionally.
a = Switching module (SM) number.
b = Digital line and trunk unit (DLTU) number.
c = HDFI number.
d = The number of segments to be executed, beginning from the current point of suspension.
e = Number of times the test is to be repeated. Default is 32,767.
f = Number of the phase that has statement 'h' and segment 'g'.
g = Number of the segment in phase 'f' that has statement 'h'.
h = Number of the statement in segment 'g' of phase 'f'; at the beginning of this statement a synchronizing pulse is to be generated.
i = Number of the phase that has the segment(s) to be executed.
j = Number segment or range of segments in phase 'i' to be executed.
k = Number phase in which suspension of diagnostic execution is desired.
l = Segment number at which suspension of diagnostic execution is desired.

4. SYSTEM RESPONSE

NG = No good. Request denied because of a conflict with current status.
PF = Printout follows. Followed by the EX:HDFI output message.

5. REFERENCES

Input Message(s):

STP:HDFI

Output Message(s):

EX:HDFI
EX:HSDC
Software Release: 5E14 and later
Command Group: AM
Application: 5,3B
Type: Input

1. PURPOSE

2. FORMAT
EX:HSDC=a[:[RAW][,UCL]],PH=b[,TLP];

3. EXPLANATION OF MESSAGE

RAW = Prints all the diagnostic failures. Default is the first five failures.

TLP = Executes the trouble locating procedure (TLP) at the conclusion of the diagnostic. This process generates a list of suspected faulty equipment.

NOTE: It is not recommended that the TLP and UCL parameters be specified together, as it may produce an improper TLP listing.

UCL = Executes unconditionally.

NOTE: This option does not override forced early terminations.

a = Member number.

b = Number of the phase to be executed.

NOTE: The phase will not be executed until subsequent messages from the EX:LOOP, EX:PAUSE, EX:STEP, and EX:STOP input messages are input.

4. SYSTEM RESPONSE
PF = Printout follows. Followed by the EX:HSDC output message.

5. REFERENCES

Input Message(s):
DGN:HSDC
EX:LOOP
EX:PAUSE
EX:STEP
EX:STOP
STOP:DMQ
STP:DMQ

Output Message(s):
EX:IDCU
Software Release: 5E14 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE
Requests that an integrated digital carrier unit (IDCU) service group circuit be interactively diagnosed. This message is used primarily for manual troubleshooting. To stop any of these exercises, use the input message STP:IDCU. The unit will remain in the out-of-service (OOS) state.

Format 1 must be entered before entering other format requests.

Format 2 resets the diagnostic options and begins executing a portion of a previously-activated diagnostic program until the specified number of segments have been performed.

Format 3 inverts the state (from "running" to "suspended" or vice-versa) of the previously-activated diagnostic program.

Format 4 executes a portion of the previously-activated diagnostic program.

Format 5 transfers control from the current point of suspension to the beginning of the specified segment of a previously-activated diagnostic program, ignoring interim test failures.

2. FORMAT

[1] EX:IDCU=a-b-c,START[,GROW];
[2] EX:IDCU=a-b-c[,UCL][,RAW][,SYNCH=d-e-f],STEP=g[,TLP];
[3] EX:IDCU=a-b-c;
[4] EX:IDCU=a-b-c[,UCL][,RAW][,SYNCH=d-e-f][,RPT[=h]],PH=i-j[,TLP];
[5] EX:IDCU=a-b-c,PAUSE=k-l;

3. EXPLANATION OF MESSAGE

GROW = Allow diagnostic access to growth equipment.

RAW = Print raw test failure data.

TLP = Trouble location procedure. Print the ordered pack list.

UCL = Unconditionally execute and print all test failures.

a = Switching module number.

b = IDCU number.

c = IDCU service group number.

d = The phase that has segment ‘e’ and statement ‘f’.

e = The segment that has the ‘f’ statement.
f = The statement at the beginning of which a synchronizing pulse is to be generated.
g = The number of segments to execute beginning from the current point of suspension.
h = Number of times the test is to be repeated (RPT). Default is 32,767 times.
i = The number of the phase of the segments to be executed.
j = The segment number or range of segments in phase 'j' to be executed.
k = The phase at which suspension of diagnostic execution is desired.
l = The segment number at which suspension of diagnostic execution is desired.

4. SYSTEM RESPONSE

PF = Printout follows. Followed by the EX:IDCU output message.
NG = No good. The request has been denied. The message is valid but the request conflicts with current status.
RL = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

Input Message(s):

  ABT:IDCU
  STP:IDCU

Output Message(s):

  EX:IDCU

Other Manual(s):

235-105-220  Corrective Maintenance
235-105-110  System Maintenance Requirements and Tools
EX:IOP

Software Release: 5E14 and later
Command Group: AM
Application: 5,3B
Type: Input

1. PURPOSE


2. FORMAT

EX:IOP=a[:[RAW][,UCL]],PH=b[,TLP][,CU=c];

3. EXPLANATION OF MESSAGE

RAW = Prints all the diagnostic failures. Default is the first five failures.

TLP = Executes the trouble locating procedure (TLP) at the conclusion of the diagnostic. This process generates a list of suspected faulty equipment.

NOTE: It is not recommended that the TLP and UCL parameters be specified together, as it may produce an improper TLP listing.

UCL = Executes unconditionally.

NOTE: This option does not override forced early terminations.

a = Member number.

b = Number of the phase to be executed.

NOTE: The phase will not be executed until subsequent messages from the EX:LOOP EX:PAUSE, EX:STEP and EX:STOP input messages are input.

c = Member number of the CU helper unit. When a helper unit is not required, the specified helper unit is not used. When a helper unit is required but the specified unit is inappropriate or unavailable, the helper unit dependent tests are skipped. The off-line CU is required as a helper unit when demand phase 15 is executed.

NOTE: The helper CU must be out-of-service (OOS) and must be diagnosed as all tests pass (ATP) before it is used as a helper unit.

4. SYSTEM RESPONSE

PF = Printout follows. Followed by the EX:IOP output message.

5. REFERENCES

Input Message(s):

DGN:IOP
EX:LOOP
EX:PAUSE
EX:STEP
EX:STOP
STOP:DMQ
STP:DMQ

Output Message(s):

ANALY:TLPFILE
DGN:IOP
EX:IOP
EX:ISLUCC

Software Release: 5E14 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Requests that an integrated services line unit common controller (ISLUCC) be exercised (diagnosed interactively). This message is used primarily for manual troubleshooting.

Format 1 activates a diagnostic program on the ISLUCC.

Format 2 executes a portion of a previously activated diagnostic program.

Format 3 resets the diagnostics options and begins executing the previously activated diagnostic program from the current point of suspension until the specified number of segments has been performed.

Format 4 inverts (toggles) the state (from running to suspended or vice versa) of a previously activated diagnostic program.

Format 5 transfers control from the current point of suspension to the beginning of the specified segment of a previously activated diagnostic program, ignoring interim test failures.

NOTE: To stop any of these exercises, use the STP:ISLUCC input message. This unit will remain out-of-service (OOS).

2. FORMAT

[1] EX:ISLUCC=a-b-c,START[,GROW];

[2] EX:ISLUCC=a-b-c,PH=d-e[&f][,RPT[=j]][,SYNCH=k-l-m][,RAW[,TLP][,UCL];

[3] EX:ISLUCC=a-b-c,STEP=g[,SYNCH=k-l-m][,RAW[,TLP][,UCL];

[4] EX:ISLUCC=a-b-c;

[5] EX:ISLUCC=a-b-c,PAUSE=h-i;

3. EXPLANATION OF MESSAGE

GROW = Allow access to growth equipment.

RAW = Print data from raw data test failure.

TLP = Print the ordered pack list.

UCL = Execute and print all test failures unconditionally rather than stopping after the first test failure.

a = Switching module (SM) number.

b = Integrated services line unit (ISLU) number.

c = Common controller number.
d = The number of the phase (PH) that has the segment(s) to be executed.
e = The segment number or lower limit of a range of segment numbers in phase 'd' to be executed.
f = The upper limit of a range of segment numbers.
g = The number of the segments to be executed, beginning from the current point of suspension.
h = The number of the phase at which suspension of diagnostic execution is desired.
i = The number of the segment at which suspension of diagnostic execution is desired.
j = The number of times the exercise is to be repeated (1-32676). If 'j' is not specified, the exercise will be repeated 32,767 times.
k = The number of the phase that has statement 'm' and segment 'l'.
l = The segment number that has statement 'm'.
m = The statement at the beginning of which a synchronizing pulse is to be generated.

4. SYSTEM RESPONSE

NG = No good. The message form is valid, but the request conflicts with the current status.
PF = Printout follows. Followed by the EX ISLUCC output message.
RL = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

Input Message(s):

OP: DMQ
STP: ISLUCC

Output Message(s):

EX: ISLUCC

MCC Display Page(s):

ISLU Network - 170x  where x = ISLU Number (0-7)
ISLU Line Group - 170xy  where y = LGC Number (0-15)
1. PURPOSE

Requests that an integrated services line unit common data (ISLUCD) be exercised (diagnosed interactively). This message is used primarily for manual troubleshooting.

Format 1 activates a diagnostic program on the ISLUCD.

Format 2 executes a portion of a previously activated diagnostic program.

Format 3 resets the diagnostics options and begins executing the previously activated diagnostic program from the current point of suspension until the specified number of segments has been performed.

Format 4 inverts (toggles) the state (from running to suspended or vice versa) of a previously activated diagnostic program.

Format 5 transfers control from the current point of suspension to the beginning of the specified segment of a previously activated diagnostic program, ignoring interim test failures.

NOTE: To stop any of these exercises, use the STP:ISLUCD input message. The unit will remain out of service.

2. FORMAT

[1] EX:ISLUCD=a-b-c,START[,CAMPON=j][,GROW];
[2] EX:ISLUCD=a-b-c,PH=d-e[&f][,RPT=[k]][,SYNCH=l-m-n][,RAW] [,TLP][,UCL];
[3] EX:ISLUCD=a-b-c,STEP=g[,SYNCH=l-m-n][,RAW][,TLP][,UCL];
[4] EX:ISLUCD=a-b-c;
[5] EX:ISLUCD=a-b-c,PAUSE=h-i;

3. EXPLANATION OF MESSAGE

GROW = Allow access to growth equipment.
RAW = Print data from raw data test failure.
TLP = Print the ordered pack list.
UCL = Execute and print all test failures unconditionally rather than stopping after the first test failure.
a = Switching module (SM) number.
b = Integrated services line unit (ISLU) number.
c = Common data number.
d = The number of the phase that has the segment(s) to be executed.
e = The segment number or lower limit of a range of segment numbers in phase 'd' to be executed.
f = The upper limit of a range of segment numbers.
g = The number of segments to be executed, beginning from the current point of suspension.
h = The number of the phase at which suspension of diagnostic execution is desired.
i = The number of the segment at which suspension of diagnostic execution is desired.
j = Camp-on time in minutes. If CAMPON is not specified, camp-on time defaults to 6 minutes. Maximum time allowed is 20 minutes.
k = The number of times the exercise is to be repeated (1-32676). If 'k' is not specified, the test will be repeated 32,767 times.
l = The number of the phase that has statement 'n' and segment 'm'.
m = The segment number that has statement 'n'.
n = The statement at the beginning of which a synchronizing pulse is to be generated.

4. SYSTEM RESPONSE

NG = No good. The message form is valid, but the request conflicts with the current status.
PF = Printout follows. Followed by the EX ISLUCD output message.
RL = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

Input Message(s):

OP:DMQ
STP:ISLUCD

Output Message(s):

EX:ISLUCD
**EX:ISLUHLSC**

*Software Release:* 5E14 and later  
*Command Group:* SM  
*Application:* 5  
*Type:* Input

1. **PURPOSE**

Interactively diagnoses the integrated services line unit high level service circuit (ISLUHLSC). This message is used primarily for manual troubleshooting.

Format 1 must be entered first prior to entering other format requests.

Format 1 activates a diagnostic program on the ISLUHLSC.

Format 2 resets the diagnostic options and begins executing the previously activated diagnostic program from the current point of suspension until the specified number of segments has been performed.

Format 3 inverts the state (from running the suspended or vice-versa) of the previously activated diagnostic program.

Format 4 executes a portion of the previously activated diagnostic program.

Format 5 transfers control from the current point of suspension to the beginning of the specified segment of a previously activated diagnostic program, ignoring interim test failures.

**NOTE:** To stop any of these exercises, use the STP:ISLUHLSC input message. The unit will remain out-of-service (OOS) after the stop input message completes.

2. **FORMAT**

[1]  
EX:ISLUHLSC=a-b-c-d,START[,GROW];

[2]  
EX:ISLUHLSC=a-b-c-d[,UCL][,RAW][,SYNCH=e-f-g],STEP=h[,TLP];

[3]  
EX:ISLUHLSC=a-b-c-d;

[4]  
EX:ISLUHLSC=a-b-c-d[,UCL][,RAW][,SYNCH=e-f-g][,RPT[=h]],PH=i-j[,TLP];

[5]  
EX:ISLUHLSC=a-b-c-d,PAUSE=k-l;

3. **EXPLANATION OF MESSAGE**

**GROW**  
= Allow diagnostic access to growth equipment.

**RAW**  
= Print raw test failure data.

**TLP**  
= Print the ordered pack list.

**UCL**  
= Execute unconditionally and print all test failures.

**a**  
= Switching module (SM) number.

**b**  
= ISLU number.
c = ISLU service group.
d = High level service circuit.
e = The number of the phase that has statement 'f' and segment 'g'.
f = The number of the segment that has the 'g' statement.
g = The number of the statement at the beginning of which a synchronizing pulse is to be generated.
h = The number of segments to be executed beginning from the current point of suspension.
i = The number of the phase of the segments to be executed.
j = The segment or range of segments in phase 'j' to be executed.
k = The number of the phase at which suspension of diagnostics execution is desired.
l = The segment number at which suspension of diagnostics execution is desired.

4. SYSTEM RESPONSE

PF = Printout follows. Followed by the EX:ISLUHLSC output message.
NG = No good. The request has been denied. The message is valid but the request conflicts with the current status.
RL = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

Input Message(s):

STP:ISLUHLSC

Output Message(s):

EX:ISLUHLSC
EX:ISLULBD  
Software Release: 5E14 and later  
Command Group: SM  
Application: 5  
Type: Input  

1. PURPOSE  
Requests that an integrated services line unit line board (ISLULBD) be exercised (diagnosed interactively). This message is used primarily for manual troubleshooting.  
Format 1 activates a diagnostic program on the ISLULBD.  
Format 2 executes a portion of a previously activated diagnostic program.  
Format 3 resets the diagnostics options and begins executing the previously activated diagnostic program from the current point of suspension until the specified number of segments has been performed.  
Format 4 inverts (toggles) the state (from running to suspended or vice versa) of a previously activated diagnostic program.  
Format 5 transfers control from the current point of suspension to the beginning of the specified segment of a previously activated diagnostic program, ignoring interim test failures.  
NOTE: To stop any of these exercises, use the STP:ISLULBD input message. The unit will remain out of service.  

2. FORMAT  
[1] EX:ISLULBD=a-b-c-d,START[,CAMPON=k][,GROW];  
[2] EX:ISLULBD=a-b-c-d,PH=e-f[&g][,RPT=[l]][,SYNCH=m-n-o][,RAW] [,TLP][,UCL];  
[3] EX:ISLULBD=a-b-c-d,STEP=h[,SYNCH=m-n-o][,RAW][,TLP][,UCL];  
[5] EX:ISLULBD=a-b-c-d,PAUSE=i-j;  

3. EXPLANATION OF MESSAGE  
GROW = Allow access to growth equipment.  
RAW = Print data from raw data test failure.  
TLP = Print the ordered pack list.  
UCL = Execute and print all test failures unconditionally rather than stopping after the first test failure.  
a = Switching module (SM) number.  
b = Integrated services line unit (ISLU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.  
c = Line group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
d = Line board number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

e = The number of the phase that has the segment(s) to be executed.

f = The segment number or the lower limit of a range of segments numbers in phase 'e' to be executed.

g = The upper limit of a range of segment numbers.

h = The number of segments to be executed, beginning from the current point of suspension.

i = The number of the phase at which suspension of diagnostic execution is desired.

j = The number of the segment at which suspension of diagnostic execution is desired.

k = Camp-on time in minutes. If CAMPON is not specified, camp on time defaults to 6 minutes. Maximum time allowed is 20 minutes.

l = The number of times the exercise is to be repeated (1-32676). If 'l' is not specified, the test will be repeated 32,767 times.

m = The number of the phase that has statement 'o' and segment 'n'.

n = The number of the segment that has statement 'o'.

o = The statement at the beginning of which a synchronizing pulse is to be generated.

4. SYSTEM RESPONSE

NG = No good. The message form is valid, but the request conflicts with the current status.

PF = Printout follows. Followed by the EX ISLULBD output message.

RL = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

Input Message(s):

OP:DMQ
STP:ISLULBD

Output Message(s):

EX:ISLULBD
EX:ISLULC

Software Release: 5E14 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Requests that an integrated services line unit line card (ISLULC) be exercised (diagnosed interactively). This message is used primarily for manual troubleshooting.

Format 1 activates a diagnostic program on the ISLULC.

Format 2 executes a portion of a previously activated diagnostic program.

Format 3 resets the diagnostics options and begins executing the previously activated diagnostic program from the current point of suspension until the specified number of segments has been performed.

Format 4 inverts (toggles) the state (from running to suspended or vice versa) of a previously activated diagnostic program.

Format 5 transfers control from the current point of suspension to the beginning of the specified segment of a previously activated diagnostic program, ignoring interim test failures.

NOTE: To stop any of these exercises, use the STP:ISLULC input message. The unit will remain out of service.

2. FORMAT

[1] EX:ISLULC=a-b-c-d,START[,CAMFON=k][,GROW];
[2] EX:ISLULC=a-b-c-d,PH=e-f[&&g][,RPT=1][,SYNCH=m-n-o][,RAW][,TLP][,UCL];
[3] EX:ISLULC=a-b-c-d,STEP=h[,SYNCH=m-n-o][,RAW][,TLP][,UCL];
[5] EX:ISLULC=a-b-c-d,PAUSE=i-j;

3. EXPLANATION OF MESSAGE

GROW = Allow access to growth equipment.
RAW = Print data from raw data test failure.
TLP = Print the ordered pack list.
UCL = Execute and print all test failures unconditionally rather than stopping after the first test failure.

a = Switching module (SM) number.
b = Integrated services line unit (ISLU) number.
c = Line group controller number.
d = Line card number.
e = The number of the phase that has the segment(s) to be executed.
f = The segment number or the lower limit of a range of segments numbers in phase 'e' to be executed.
g = The upper limit of a range of segment numbers.
h = The number of segments to be executed, beginning from the current point of suspension.
i = The number of the phase at which suspension of diagnostic execution is desired.
j = The number of the segment at which suspension of diagnostic execution is desired.
k = Camp-on time in minutes. If CAMPON is not specified, camp on time defaults to 6 minutes. Maximum time allowed is 20 minutes.
l = The number of times the exercise is to be repeated (1-32676). If '1' is not specified, the test will be repeated 32,767 times.
m = The number of the phase that has statement 'o' and segment 'n'.
n = The number of the segment that has statement 'o'.
o = The statement at the beginning of which a synchronizing pulse is to be generated.

4. SYSTEM RESPONSE

NG = No good. The message form is valid, but the request conflicts with the current status.
PF = Printout follows. Followed by the EX ISLULC output message.
RL = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

Input Message(s):

OP:DMQ
STP:ISLULC

Output Message(s):

EX:ISLULC
EX:ISLULCKT

Software Release: 5E14 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Requests that an integrated services line unit line circuit (ISLULCKT) be exercised (diagnosed interactively). This message is used primarily for manual troubleshooting.

Format 1 activates a diagnostic program on the ISLULCKT.

Format 2 executes a portion of a previously activated diagnostic program.

Format 3 resets the diagnostics options and begins executing the previously activated diagnostic program from the current point of suspension until the specified number of segments has been performed.

Format 4 inverts (toggles) the state (from running to suspended or vice versa) of a previously activated diagnostic program.

Format 5 transfers control from the current point of suspension to the beginning of the specified segment of a previously activated diagnostic program, ignoring interim test failures.

NOTE: To stop any of these exercises, use the STP:ISLULCKT input message. The unit will remain out of service.

2. FORMAT

[1] EX:ISLULCKT=a-b-c-d-e,START[,CAMPON=l][,GROW];

[2] EX:ISLULCKT=a-b-c-d-e,PH=f-g[&&h][,RPT=][,SYNCH=n-o-p][,RAW] [,TLP][,UCL];

[3] EX:ISLULCKT=a-b-c-d-e,STEP=i[,SYNCH=n-o-p][,RAW][,TLP][,UCL];

[4] EX:ISLULCKT=a-b-c-d-e;

[5] EX:ISLULCKT=a-b-c-d-e,PAUSE=j-k;

3. EXPLANATION OF MESSAGE

GROW = Allow access to growth equipment.

RAW = Print data from raw data test failure.

TLP = Print the ordered pack list.

UCL = Execute and print all test failures unconditionally rather than stopping after the first test failure.

a = Switching module (SM) number.

b = Integrated services line unit (ISLU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

c = Line group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
d  = Line board number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

e  = Line circuit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

f  = The number of the phase that has the segment(s) to be executed.

g  = The segment number or the lower limit of a range of segments numbers in phase ‘e’ to be executed.

h  = The upper limit of a range of segment numbers.

i  = The number of segments to be executed, beginning from the current point of suspension.

j  = The number of the phase at which suspension of diagnostic execution is desired.

k  = The number of the segment at which suspension of diagnostic execution is desired.

l  = Camp-on time in minutes. If CAMPON is not specified, camp on time defaults to 6 minutes. Maximum time allowed is 20 minutes.

m  = The number of times the exercise is to be repeated (1-32676). If ‘m’ is not specified, the test will be repeated 32,767 times.

n  = The number of the phase that has statement ‘p’ and segment ‘o’.

o  = The number of the segment that has statement ‘p’.

p  = The statement at the beginning of which a synchronizing pulse is to be generated.

4. SYSTEM RESPONSE

NG  = No good. The message form is valid, but the request conflicts with the current status.

PF  = Printout follows. Followed by the EX ISLULCKT output message.

RL  = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

Input Message(s):

   OP:DMQ
   STP:ISLULCKT

Output Message(s):

   EX:ISLULCKT
EX:ISLULGC

Software Release: 5E14 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Requests an integrated services line unit line group controller (ISLULGC) be exercised (diagnosed interactively). This message is used primarily for manual troubleshooting.

Format 1 activates a diagnostic program on the ISLULGC.

Format 2 executes a portion of a previously activated diagnostic program.

Format 3 resets the diagnostics options and begins executing the previously activated diagnostic program from the current point of suspension until the specified number of segments has been performed.

Format 4 inverts (toggles) the state (from running to suspended or vice versa) of a previously activated diagnostic program.

Format 5 transfers control from the current point of suspension to the beginning of the specified segment of a previously activated diagnostic program, ignoring interim test failures.

NOTE: To stop any of these exercises, use the STP:ISLULGC input message. The unit will remain out of service.

2. FORMAT

[1] EX:ISLULGC=a-b-c,START[,CAMPON=j][,GROW];
[2] EX:ISLULGC=a-b-c,PH=d-e[&f][,RPT=k][,SYNCH=l-m-n][,RAW] [,TLP][,UCL];
[3] EX:ISLULGC=a-b-c,STEP=g[,SYNCH=l-m-n][,RAW][,TLP][,UCL];
[4] EX:ISLULGC=a-b-c;
[5] EX:ISLULGC=a-b-c,PAUSE=h-i;

3. EXPLANATION OF MESSAGE

GROW = Allow access to growth equipment.
RAW = Print data from raw data test failure.
TLP = Print the ordered pack list.
UCL = Execute and print all test failures unconditionally, rather than stopping after the first test failure.

a = Switching module (SM) number.
b = Integrated services line unit (ISLU) number.
c = Line group controller number.
d = The number of the phase that has the segment(s) to be executed.
e = The segment number or the lower limit of a range of segment numbers in phase 'd' to be executed.
f = The upper limit of a range of segment numbers.
g = The number of the segments to be executed, beginning from the current point of suspension.
h = The number of the phase at which suspension of diagnostic execution is desired.
i = The number of the segment at which suspension of diagnostic execution is desired.
j = Camp-on time in minutes. If CAMPON is not specified, camp on time defaults to 6 minutes. Maximum time allowed is 20 minutes.
k = The number of times the exercise is to be repeated (1-32676). If 'k' is not specified, the test will be repeated 32,767 times.
l = The number of the phase that has statement 'n' and segment 'm'.
m = The number of the segment that has statement 'n'.
n = The numbers of the statement at the beginning of which a synchronizing pulse is to be generated.

4. SYSTEM RESPONSE

NG = No good. The message form is valid, but the request conflicts with the current status.
PF = Printout follows. Followed by the EX ISLULGC output message.
RL = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

Input Message(s):

| OP:DMQ |
| STP:ISLULGC |

Output Message(s):

| EX:ISLULGC |
**EX:ISLUMAN**

- **Software Release:** 5E14 and later
- **Command Group:** SM
- **Application:** 5
- **Type:** Input

1. **PURPOSE**

Interactively diagnoses the integrated services line unit metallic access network (ISLUMAN). This message is used primarily for manual troubleshooting.

Format 1 must be entered first prior to entering other format requests.

Format 1 activates a diagnostic program on the ISLUMAN.

Format 2 resets the diagnostic options and begins executing the previously activated diagnostic program from the current point of suspension until the specified number of segments has been performed.

Format 3 inverts the state (from running to suspended or vice-versa) of the previously activated diagnostic program.

Format 4 executes a portion of the previously activated diagnostic program.

Format 5 transfers control from the current point of suspension to the beginning of the specified segment of a previously activated diagnostic program, ignoring interim test failures.

**NOTE:** To stop any of these exercises, use the STP:ISLUMAN input message. The unit will remain out-of-service (OOS) after the stop input message completes.

2. **FORMAT**

   [1] EX:ISLUMAN=a-b-c-d,START[,GROW];
   [2] EX:ISLUMAN=a-b-c-d[,UCL][,RAW][,SYNCH=e-f-g],STEP=h[,TLP];
   [4] EX:ISLUMAN=a-b-c-d[,UCL][,RAW][,SYNCH=e-f-g][,RPT[=h]],PH=i-j[,TLP];
   [5] EX:ISLUMAN=a-b-c-d,PAUSE=k-l;

3. **EXPLANATION OF MESSAGE**

   - **GROW** = Allow diagnostic access to growth equip.
   - **RAW** = Print raw test failure data.
   - **TLP** = Print the ordered pack list.
   - **UCL** = Execute unconditionally and print all test failures.
   - **a** = Switching module (SM) number.
   - **b** = ISLU number.
   - **c** = ISLU service group.
d = Access network board.
e = The number of the phase that has statement ‘e’ and segment ‘g’.
f = The number of the segment that has the ‘g’ statement.
g = The number of the statement at the beginning of which a synchronizing pulse is to be generated.
h = The number of segments to be executed beginning from the current point of suspension.
i = The number of the phase of the segments to be executed.
j = The number of the segment or range of segments in phase ‘j’ to be executed.
k = The number of the phase at which suspension of diagnostics execution is desired.
l = The segment number at which suspension of diagnostics execution is desired.

4. SYSTEM RESPONSE

PF = Printout follows. Followed by the EX:ISLUMAN output message.
NG = No good. The request has been denied. The message is valid but the request conflicts with the current status.
RL = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

Input Message(s):

STP:ISLUMAN

Output Message(s):

EX:ISLUMAN
EX:ISLURG

Software Release: 5E14 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Interactively diagnoses the integrated services line unit ringing generator (ISLURG). This message is used primarily for manual troubleshooting.

Format 1 must be entered before entering other format requests.

Format 1 activates a diagnostic program on the ISLURG.

Format 2 resets the diagnostic options and begins executing the previously activated diagnostic program from the current point of suspension until the specified number of segments has been performed.

Format 3 inverts the state (from running to suspended or vice-versa) of the previously activated diagnostic program.

Format 4 executes a portion of the previously activated diagnostic program.

Format 5 transfers control from the current point of suspension to the beginning of the specified segment of a previously activated diagnostic program, ignoring interim test failures.

NOTE: To stop any of these exercises, use the STP:ISLURG input message. The unit will remain out-of-service (OOS) after the stop input message completes.

2. FORMAT

[1] EX:ISLURG=a-b-c,START[,GROW];

[2] EX:ISLURG=a-b-c[,UCL][,RAW][,SYNCH=d-e-f],STEP=g[,TLP];

[3] EX:ISLURG=a-b-c;

[4] EX:ISLURG=a-b-c[,UCL][,RAW][,SYNCH=d-e-f][,RPT[=g]],PH=h-i[,TLP];

[5] EX:ISLURG=a-b-c,PAUSE=j-k;

3. EXPLANATION OF MESSAGE

GROW = Allow diagnostic access to growth equip.

RAW = Print raw test failure data.

TLP = Print the ordered pack list.

UCL = Execute unconditionally and print all test failures.

a = Switching module (SM) number.

b = ISLU number.

c = ISLU service group.
\(d\) = The number of the phase that has statement 'e' and segment 'f'.
\(e\) = The number of the segment that has the 't' statement.
\(f\) = The number of the statement at the beginning of which a synchronizing pulse is to be generated.
\(g\) = The number of segments to be executed beginning from the current point of suspension.
\(h\) = The number of the phase of the segments to be executed.
\(i\) = The number of the segment or range of segments in phase 'i' to be executed.
\(j\) = The number of the phase at which suspension of diagnostics execution is desired.
\(k\) = The segment number at which suspension of diagnostics execution is desired.

4. SYSTEM RESPONSE

\(PF\) = Printout follows. Followed by the EX:ISLURG output message.
\(NG\) = No good. The request has been denied. The message is valid but the request conflicts with the current status.
\(RL\) = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

Input Message(s):

\texttt{STP:ISLURG}

Output Message(s):

\texttt{EX:ISLURG}
EX:ISTF

Software Release: 5E14 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Interactively diagnoses the integrated services test function (ISTF) unit. This message is used primarily for manual troubleshooting. The exercise is only performed once unless the RPT option is specified.

Format 1 activates a diagnostic program on the ISTF unit.

Format 2 executes a portion of a previously activated diagnostic program.

Format 3 inverts the state (from running to suspended or vice versa) of a previously activated diagnostic program.

Format 4 resets the diagnostic option and begins executing the previously activated diagnostic program from the current point of suspension until the specified number of segments has been performed.

Format 5 transfers control from the current point of suspension to the beginning of the specified segment of a previously activated diagnostic program, ignoring interim test failures.

To stop the exercise, use the "STP:EX,ISTF" form of the STP:ISTF input message. The unit will remain out of service.

2. FORMAT

[1] EX:ISTF=a-b,START[,GROW];
[2] EX:ISTF=a=b,PH=h-i[,UCL][,RAW][,SYNCH=e-f-g][,RPT=[d]][,TLP];
[3] EX:ISTF=a-b;
[4] EX:ISTF=a-b,STEP=c[,UCL][,RAW][,SYNCH=e-f-g][,TLP];
[5] EX:ISTF=a-b,PAUSE=j-k;

3. EXPLANATION OF MESSAGE

GROW = Allow access to growth equipment.
RAW = Print raw test failure data.
TLP = Print the order pack list.
UCL = Execute unconditionally. DGN will continue past all non-fatal failures.
a = Switching module (SM) number.
b = ISTF unit number.
c = The number of segments to be executed, beginning from the current point of suspension.
d = The number of times the test is to be repeated. If ‘d’ is not specified, the test will be repeated...
32,767 times.

e = The number of the phase that has statement 'g' and segment 'f' (SM units only).
f = The number of the segment that has statement 'g' (SM units only).
g = The number of the statement at the beginning of which a synchronizing pulse is to be generated (SM units only).
h = The number of the phase of the segment(s) to be executed.
i = The segment or range of segments in phase 'h' to be executed.
j = The number of the phase at which suspension of diagnostic execution is desired.
k = The segment number at which suspension of diagnostic execution is desired.

4. SYSTEM RESPONSE

PF = Printout follows. The request has been accepted. Followed by the EX:ISTF output message.
RL = Retry later. The request cannot be executed now due to unavailable system resources. The message may be entered again later.
NG = No good. The request has been denied because it conflicts with current equipment status.
- UNIT DOES NOT EXIST = No good. The requested unit does not exist in the system.
- SM DOES NOT EXIST = No good. The requested SM does not exist in the system.
- UNEQUIPPED = No good. The SM specified in the request is unequipped.

5. REFERENCES

Input Message(s):

STP:ISTF

Output Message(s):

EX:ISTF
EX:LDPARM

Software Release: 5E14 and later
Command Group: AM
Application: 5,3B
Type: Input

1. PURPOSE

Requests to execute the main store (MAS) diagnostic phase with user-supplied address range, refresh rate, number of failures to be collected, data pattern (phase 95), words per array to copy (phase 96), and refresh parity check time (phase 96). This message can only be used with MAS diagnostic phase 95 or 96.

NOTE: To use this input message, first invoke the interactive diagnostics. For example:

EX:CU=a,MASC b:ph c;

2. FORMAT

EX:LDPARM:CU=a,MASC=b[,SA=h][,EA=i][,REF=j][,FNUM=k][,PAT=l][,WPA=m][,TIME=n];

3. EXPLANATION OF MESSAGE

a = Member number.
b = Member number of the main store controller (MASC) beneath the CU.
c = Executes the specified phase.
h = Starting address for the main store exercise, in hexadecimal notation. Default=0.
i = End address for the MAS exercise, in hexadecimal notation. Default=all equipped memory in controller under test.
j = Memory refresh rate used in the MAS exercise, in decimal notation. Default = 4 ms. Possible values are 2, 4, 6, 8, 10, 12, 14, 16, 32, 36, 40, 44, 48, 52, 56, or 60 ms. Memory devices are guaranteed to work at a refresh rate of 4 ms or less when the memory device case temperature is between 0 degrees C and 85 degrees C.
k = Number of failures for which data is to be collected. Default = 100.
l = 32 bit data pattern used in the MAS exercise (phase 95), in hexadecimal notation. Default=0xffffffff.
m = Number of words per memory array to copy from the on-line CU, in hexadecimal notation (phase 96). Default= all words in each array.
n = Duration of time, in seconds, for which refresh data parity checks should be run to scan for errors in the MASC under test (phase 96). Default=34 seconds for TN14 MASAs, 68 seconds for TN28, TN56, TN2012 MASAs, 136 seconds for TN56 MASAs with either extended main memory (EMM) or very large main memory (VLMM) features, 136 seconds for TN2012 MASAs with EMM feature, or 272 seconds for TN2012 MASAs with VLMM feature.
4. SYSTEM RESPONSE

PF  = Printout follows. Followed by the EX:LDPARM output message.

RL  = Retry later. The system is in an overload condition.

5. REFERENCES

Input Message(s):

DGN:CU
EX:CU
STOP:DMQ
STP:DMQ

Output Message(s):

ANALY:TLPFILE
DGN:CU
EX:CU
EX:LDPARM
EX:LDSF

**Software Release:** 5E14 and later  
**Command Group:** SM  
**Application:** 5  
**Type:** Input

1. PURPOSE

Interactively diagnoses the local digital service function (LDSF) circuit. This message is used primarily for manual troubleshooting.

Format 1 activates a diagnostic program on the LDSF board.

Format 2 executes a portion of a previously activated diagnostic program.

Format 3 inverts the state (from running to suspended or vice versa) of a previously activated diagnostic program.

Format 4 resets the diagnostic option and begin executing the previously activated diagnostic program from the current point of suspension until the specified number of segments has been performed.

Format 5 transfers control from the current point of suspension to the beginning of the specified segment of a previously activated diagnostic program, ignoring interim test failures.

To stop this exercise, use input message STP:LDSF. The unit will remain out of service.

2. FORMAT

[1] EX:LDSF=a-b,START[,GROW];

[2] EX:LDSF=a-b,PH=h-i[,UCL][,RAW][,SYNCH=e-f-g][,RPT=[d]][,TLP];

[3] EX:LDSF=a-b;

[4] EX:LDSF=a-b,STEP=c[,UCL][,RAW][,SYNCH=e-f-g][,TLP];

[5] EX:LDSF=a-b,PAUSE=j-k;

3. EXPLANATION OF MESSAGE

**GROW**  
= Allow access to growth equipment.

**RAW**  
= Print raw test failure data.

**UCL**  
= Execute unconditionally. DGN will continue past all non-fatal failures.

**a**  
= Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

**b**  
= LDSF number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

**c**  
= The number of segments to be executed, beginning from the current point of suspension.

**d**  
= Number of times the test is to be repeated. (default is 32,767).

**e**  
= The number of the phase that has statement 'g' and segment 't' (SM units only).
f = The number of the segment that has statement ‘g’ (SM units only).

g = The number of the statement at the beginning of which a synchronizing pulse is to be generated (SM units only).

h = The phase of the segment(s) to be executed.

i = The segment or range of segments in phase ‘h’ to be executed.

j = The number of the phase at which suspension of diagnostic execution is desired.

k = The segment number at which suspension of diagnostic execution is desired.

4. SYSTEM RESPONSE

NG = No good. The request has been denied. The message form is valid, but the request conflicts with current status.

PF = Printout follows. The request has been accepted. Followed by the EX:LDSF output message.

5. REFERENCES

Input Message(s):

STP:LDSF

Output Message(s):

EX:LDSF

Input Appendix(es):

APP: RANGES
1. PURPOSE

Interactively diagnoses the local digital service unit - model 2 (LDSU2) board. This message is used primarily for manual troubleshooting.

Format 1 activates a diagnostic program on the LDSU2 board.

Format 2 executes a portion of a previously activated diagnostic program.

Format 3 inverts the state (from running to suspended or vice versa) of a previously activated diagnostic program.

Format 4 resets the diagnostic option and begin executing the previously activated diagnostic program from the current point of suspension until the specified number of segments has been performed.

Format 5 transfers control from the current point of suspension to the beginning of the specified segment of a previously activated diagnostic program, ignoring interim test failures.

To stop this exercise, use input message STP:LDSU. The unit will remain out of service.

2. FORMAT

[1] EX:LDSU=a-b-c,START[,GROW];
[2] EX:LDSU=a-b-c,PH=i-j[,UCL][,RAW][,SYNCH=f-g-h][,RPT[=e]][,TLP];
[3] EX:LDSU=a-b-c;
[4] EX:LDSU=a-b-c,STEP=d[,UCL][,RAW][,SYNCH=f-g-h][,TLP];
[5] EX:LDSU=a-b-c,PAUSE=k-l;

3. EXPLANATION OF MESSAGE

GROW = Allow access to growth equipment.
RAW = Print raw test failure data.
UCL = Execute unconditionally. DGN will continue past all non-fatal failures.
a = Switching module (SM) number.
b = Local digital service unit number.
c = Service group number.
d = The number of segments to be executed, beginning from the current point of suspension.
e = Number of times the test is to be repeated. (default is 32,767).
f = The number of the phase that has statement 'h' and segment 'g' (SM units only).
\( g \) = The number of the segment that has statement ‘\( h \)’ (SM units only).

\( h \) = The number of the statement at the beginning of which a synchronizing pulse is to be generated (SM units only).

\( i \) = The phase of the segment(s) to be executed.

\( j \) = The segment or range of segments in phase ‘\( i \)’ to be executed.

\( k \) = The number of the phase at which suspension of diagnostic execution is desired.

\( l \) = The segment number at which suspension of diagnostic execution is desired.

4. SYSTEM RESPONSE

NG = No good. The request has been denied. The message form is valid, but the request conflicts with current status.

PF = Printout follows. The request has been accepted. Followed by the EX:LDSU output message.

5. REFERENCES

Input Message(s):

\texttt{STP:LDSU}

Output Message(s):

\texttt{EX:LDSU}
EX:LDSUCOM

Software Release: 5E14 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Interactively diagnoses the local digital service circuit common (LDSUCOM) board. This message is used primarily for manual troubleshooting.

Format 1 starts a diagnostic exercise program on the LDSUCOM board.

Format 2 resets the diagnostic option and begins executing the previously activated diagnostic program from the current point of suspension until the specified number of segments has been performed.

Format 3 inverts the state (from running to suspended or vice versa) of a previously activated diagnostic program.

Format 4 executes a portion of a previously activated diagnostic program.

Format 5 transfers control from the current point of suspension to the beginning of the specified segment of a previously activated diagnostic program, ignoring interim test failures.

To stop this exercise, use input message STP:LDSUCOM. The unit will remain out-of-service (OOS).

2. FORMAT

[1] EX:LDSUCOM=a-b-c,START[,GROW];

[2] EX:LDSUCOM=a-b-c[,UCL][,RAW][,SYNCH=f-g-h],STEP=d[,TLP];

[3] EX:LDSUCOM=a-b-c;

[4] EX:LDSUCOM=a-b-c[,UCL][,RAW][,SYNCH=f-g-h][,RPT[=e]],PH=i-j [,TLP];

[5] EX:LDSUCOM=a-b-c,PAUSE=k-l;

3. EXPLANATION OF MESSAGE

GROW = Allow access to growth equipment.

RAW = Print raw test failure data.

TLP = Print ordered pack list.

UCL = Execute unconditionally.

a = Switching module (SM) number.

b = Local digital service unit number.

c = Service group number.

d = The number of segments to execute, beginning from the current point of suspension.
e = Number of times the exercise is to be repeated. Default=32,767.

f = The number of the phase that has statement 'h' and segment 'g' (SM units only).

g = The number of the segment that has statement 'h' (SM units only).

h = The number of the statement at the beginning of which a synchronizing pulse is to be generated (SM units only).

i = The number of the phase of the segment(s) to be executed.

j = The number of the segment or range of segments in phase 'i' to be executed.

k = The number of the phase at which suspension of diagnostic execution is desired.

l = The segment number at which suspension of diagnostic execution is desired.

4. SYSTEM RESPONSE

NG = No good. The request has been denied. The message form is valid, but the request conflicts with current status.

PF = Printout follows. The request has been accepted. Followed by the EX:LDSUCOM output message.

5. REFERENCES

Input Message(s):

STP:LDSUCOM

Output Message(s):

EX:LDSUCOM
EX:LI

**Software Release:** 5E14 and later  
**Command Group:**  
**Application:** 5  
**Type:** Input

### 1. PURPOSE

Requests that the link interface (LI) be exercised in an interactive mode. This message is used primarily for manual troubleshooting.

Format 1 activates the interactive diagnostic program.

Format 2 begins executing the previously activated diagnostic program from the current point of suspension until the specified number of segments has been performed. The number of segments is given by the STEP parameter.

Format 3 executes the requested phase and segment or range of segments of a previously activated diagnostic program.

Format 4 causes a previously activated diagnostic program to suspend immediately, rather than completing the previous message (valid after using either Format 2 or 3).

Format 5 resets the diagnostic options and resumes executing the previously activated diagnostic program from the current point of suspension. This format is used to restart the exercise after suspending it using Format 4.

Format 6 transfers control from the current point of suspension to the beginning of the specified phase and segment of a previously activated diagnostic program, ignoring interim test failures. When the requested phase and segment are reached, the exercise will pause.

**NOTE:** Use the STP:LI message to terminate the exercise. Also, execute Format 1 first before attempting to use any of the other formats.

### 2. FORMAT

1. `EX:LI=a,START[,HELPER=b];`
2. `EX:LI=a[,UCL][,RAW],STEP=c[,TLP];`
3. `EX:LI=a[,UCL][,RAW][,RPT=d][,RPT=f&g][,TLP];`
4. `EX:LI=a;`
5. `EX:LI=a[,UCL][,RAW][,RPT=d][,TLP];`
6. `EX:LI=a,PAUSE=h-i;`

### 3. EXPLANATION OF MESSAGE

- **RAW** = Print raw test failure data.  
- **TLP** = Print the ordered suspected pack list if a test fails.  
- **UCL** = Print all test results unconditionally rather than just printing the first failing test.  
- **a** = LI side.
b = Foundation peripheral controller (FPC) side to be used as a 'helper' unit for the diagnostic. If this option is not input the standby FPC will be used.

c = The number of segments to be executed, beginning from the current point of suspension. Ignore all specified RPT options.

d = Number of times the exercise is to be repeated (default is 32,767). Ignore if STEP option is specified.

e = The number of the phase to be executed.

f = The number of segment in phase 'e' to be executed, or the lower limit in a range of segments.

g = Upper limit in a range of segments to be executed in phase 'e'.

h = The phase number at which suspension of the diagnostic execution is desired.

i = The segment of phase 'h' at which suspension of the diagnostic execution is desired.

4. SYSTEM RESPONSE

NG = No good. The request has been denied. The message syntax is valid, but the request could not be processed.

PF = Printout follows. Followed by the EX:LI output message.

RL = Retry later. The request cannot be executed now.

5. REFERENCES

Input Message(s):

ABT:LI
DGN:LI
STP:LI

Input Appendix(es):

APP:CM-IM-REASON

Output Message(s):

EX:LI

Other Manual(s):
235-105-210 Routine Operations and Maintenance
EX:LN

Software Release: 5E14 and later
Command Group: CCS
Application: 5
Type: Input

1. PURPOSE

Requests the exercise of a link node (LN) in an interactive diagnostic mode. Refer to the EX:LOOP, EX:PAUSE, EX:STEP and EX:STOP input messages in the Input Messages manual.

Four sequential system actions are performed in response to this input message.

A = The LN is removed from service following the rules for the RMV:LN input message.

B = If the resultant LN major state is out-of-service (OOS), growth (GROW), offline (OFL), or unavailable (UNAV), an attempt is made to isolate the LN. For other major states the diagnostic is aborted by the diagnostic monitor (DIAMON).

C = The specified diagnostic phases are run.

D = If the LN was in the active ring before the start of the diagnostics and was successfully isolated (in 2 above), then at the conclusion of the diagnostic execution an attempt is made to include the LN back into the active ring. Otherwise the node is left in its original ring configuration state. The LN remains in the OOS, GROW, OFL, or UNAV state.

2. FORMAT

EX:LNa=b:PH=c;

3. EXPLANATION OF MESSAGE

a = Ring node (RN) group number.

b = Member number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

c = Phase number.

NOTE: The phase will not be executed until subsequent messages from the EX:LOOP, EX:PAUSE, EX:STEP and EX:STOP input messages are input.

4. SYSTEM RESPONSE

PF = Printout follows. Followed by the EX:LN output message.

5. REFERENCES

Input Message(s):

  DGN:LN
  EX:LOOP
  EX:PAUSE
EX: STEP
EX: STOP
RMV: LN

Output Message(s):

DGN: LN
EX: LN

Other Manual(s):
235-190-120  Common Channel Signaling and Associated Signaling Service Features

MCC Display Page(s):

118  (CNI RING STATUS)
1520 (RING NODE STATUS)
EX:LOOP

Software Release: 5E14 and later
Command Group: AM, CCS
Application: 5,3B
Type: Input

1. PURPOSE

Requests to perform a specified group of diagnostic tasks repeatedly. This message puts the diagnostic in a loop between the specified statement numbers.

NOTE: To use this input message, first invoke the interactive diagnostics. For example: EX:a[,b], ph=c;

2. FORMAT

EX:LOOP:a[,b], ST=f&g;

3. EXPLANATION OF MESSAGE

a = Unit type and member number of the unit on which interactive diagnostics was started. Refer to the APP:MEM-NUM-UNIT appendix in the Appendixes section of the Input Messages manual for valid unit names and member numbers.

b = Unit type and member number of the subunit, if any. Refer to the APP:MEM-NUM-CU appendix in the Appendixes section of the Input Messages manual for valid subunit names and member numbers.

c = Executes the specified phase.

f = Statement lower boundary of an exercise loop.

g = Statement upper boundary of an exercise loop.

h = Name of unit on which interactive diagnostics was started.

4. SYSTEM RESPONSE

PF = Printout follows. Followed by the EX:LOOP output message.

RL = Retry later. The system is in an overload condition.

?I = General syntax error followed by the parameter position and one of the following reasons:
- EXTRA KEYWORD = Duplicate or extraneous keywords were input.
- INVALID KEYWORD = The keyword in the stated parameter position is not a valid keyword.
- MISSING KEYWORD = A required keyword is missing from the input.

?D = General syntax error in the data field followed by the parameter position and one of the following reasons:
- EXTRA KEYWORD = Duplicate or extraneous keywords were input.
- INVALID KEYWORD = The keyword in the stated parameter position is not a valid keyword.
- MISSING DATA = Data required for the statement keyword was not found on the input line.
- MISSING KEYWORD = A required keyword is missing from the input.
- **RANGE ERROR** = Not a valid range for the statement parameter.

  ?E = Input error of undetermined typed.

## 5. REFERENCES

### Input Message(s):

- EX:CU
- EX:DCI
- EX:DFC
- EX:DUIC
- EX:HSDC
- EX:IOP
- EX:MHD
- EX:MTC
- EX:MTYC
- EX:PAUSE
- EX:SCSDC
- EX:SDLC
- EX:STEP
- EX:STOP
- EX:TTYC
- STOP:DMQ
- STP:DMQ

### Input Appendix(es):

- APP:MEM-NUM-CU
- APP:MEM-NUM-UNIT

### Output Message(s):

- ANALY:TLPFILE
- EX:LOOP

### Other Manual(s):

235-105-220  **Corrective Maintenance**
EX:LUCHAN
Software Release: 5E14 and later
Command Group:
Application: 5
Type: Input

1. PURPOSE

Interactively diagnoses the line unit channel (LUCHAN). This message is used primarily for manual troubleshooting.

Format 1 starts a diagnostic exercise program on the LUCHAN. Format 2 resets the diagnostic options and begins executing the previously activated diagnostic program from the current point of suspension until the specified number of segments has been performed. Format 3 inverts the state (from running to suspended or vice versa) of a previously activated diagnostic program. Format 4 executes a portion of a previously activated diagnostic program. Format 5 transfers control from the current point of suspension to the beginning of the specified segment of a previously activated diagnostic program, ignoring interim test failures. To stop this exercise, use the STP:LUCHAN input message. The unit will remain out of service.

2. FORMAT

[1] EX:LUCHAN=a-b-c-d-e,START[,GROW];
[2] EX:LUCHAN=a-b-c-d-e[,UCL][,RAW][,SYNCH=h-i-j],STEP=f[,TLP];
[3] EX:LUCHAN=a-b-c-d-e;
[4] EX:LUCHAN=a-b-c-d-e[,UCL][,RAW][,SYNCH=h-i-j][,RPT[=g]],PH=k-l[,TLP];
[5] EX:LUCHAN=a-b-c-d-e,PAUSE=m-n;

3. EXPLANATION OF MESSAGE

GROW = Allow access to growth equipment.
RAW = Print raw test failure data.
TLP = Print ordered pack list.
UCL = Execute unconditionally.
a = Switching module (SM) number.
b = Line unit number in the SM.
c = Service group number.
d = Channel board number.
e = Channel number.
f = The number of segments to be executed, beginning from the current point of suspension.
g = Number of times the test is to be repeated. Default=32,767.
h = The number of the phase that has statement ‘j’ and segment ‘i’ (SM units only).
\(i\) = The number of the segment that has statement \(j\) (SM units only).

\(j\) = The number of the statement at the beginning of which a synchronizing pulse is to be generated (SM units only).

\(k\) = The number of the phase of the segment(s) to be executed.

\(l\) = The segment or range of segments in phase \(k\) to be executed.

\(m\) = The phase at which suspension of diagnostic execution is desired.

\(n\) = The segment number at which suspension of diagnostic execution is desired.

4. SYSTEM RESPONSE

**NG** = No good. The request has been denied. The message form is valid, but the request conflicts with the current status.

**PF** = Printout follows. The request has been accepted. Followed by the EX:LUCHAN output message.

5. REFERENCES

Input Message(s):

\textbf{STP:LUCHAN}

Output Message(s):

\textbf{EX:LUCHAN}
EX:LUCOMC
Software Release: 5E14 and later
Command Group:
Application: 5
Type: Input

1. PURPOSE

Interactively diagnoses the line unit common control (LUCOMC). This message is used primarily for manual troubleshooting.

Format 1 starts a diagnostic exercise program on the LUCOMC.

Format 2 resets the diagnostic options and begins executing the previously activated diagnostic program from the current point of suspension until the specified number of segments has been performed.

Format 3 inverts the state (from running to suspended or vice versa) of a previously activated diagnostic program.

Format 4 executes a portion of a previously activated diagnostic program.

Format 5 transfers control from the current point of suspension to the beginning of the specified segment of a previously activated diagnostic program, ignoring interim test failures.

To stop this exercise, use input message STP:LUCOMC. The unit will remain out-of service (OOS).

2. FORMAT

[1] EX:LUCOMC=a-b-c,START[,GROW];

[2] EX:LUCOMC=a-b-c[,UCL][,RAW][,SYNCH=f-g-h],STEP=d[,TLP];

[3] EX:LUCOMC=a-b-c;

[4] EX:LUCOMC=a-b-c[,UCL][,RAW][,SYNCH=f-g-h][,RPT [=e]],PH=i-j [,TLP];

[5] EX:LUCOMC=a-b-c,PAUSE=k-l;

3. EXPLANATION OF MESSAGE

GROW = Allow access to growth equipment.

RAW = Print raw test failure data.

TLP = Print ordered pack list.

UCL = Execute unconditionally.

a = Switching module (SM) number.

b = Line unit number in the SM.

c = Service group number.

d = The number of segments to be executed, beginning from the current point of suspension.
4. SYSTEM RESPONSE

NG = No good. The request has been denied. The message form is valid, but the request conflicts with current status.

PF = Printout follows. The request has been accepted. Followed by the EX:LUCOMC output message.

5. REFERENCES

Input Message(s):

STP:LUCOMC

Output Message(s):

EX:LUCOMC
EX:LUHLSC
Software Release: 5E14 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Interactively diagnoses the line unit high level service circuit (LUHLSC). This message is used primarily for manual troubleshooting.

Format 1 starts a diagnostic exercise program on the LUHLSC.

Format 2 resets the diagnostic options and begins executing the previously activated diagnostic program from the current point of suspension until the specified number of segments has been performed.

Format 3 inverts the state (from running to suspended or vice versa) of a previously activated diagnostic program.

Format 4 executes a portion of a previously activated diagnostic program.

Format 5 transfers control from the current point of suspension to the beginning of the specified segment of a previously activated diagnostic program, ignoring interim test failures.

To stop this exercise, use the STP:LUHLSC input message. The unit will remain out-of-service (OOS).

2. FORMAT

[1] EX:LUHLSC=a-b-c-d,START[,GROW];

[2] EX:LUHLSC=a-b-c-d[,UCL][,RAW][,SYNCH=g-h-i],STEP=e[,TLP];


[4] EX:LUHLSC=a-b-c-d[,UCL][,RAW][,SYNCH=g-h-i][,RPT[=f]],PH=j-k[,TLP];

[5] EX:LUHLSC=a-b-c-d,PAUSE=l-m;

3. EXPLANATION OF MESSAGE

GROW = Allow access to growth equipment.

RAW = Print raw test failure data.

TLP = Print ordered pack list.

UCL = Execute unconditionally.

a = Switching module (SM) number.

b = Line unit number in the SM.

c = Service group number.

d = High level service circuit number.

e = The number of segments to be executed, beginning from the current point of suspension.
f = Number of times the test is to be repeated. Default=32,767.
g = Number of the phase that contains statement 'i' and segment 'h' (SM units only).
h = Number of the segment that contains statement 'i' (SM units only).
i = Number of the statement at the beginning of which a synchronizing pulse is to be generated (SM units only).
j = The number of the phase that has the segment(s) to be executed.
k = The number of the segment or range of segments in phase 'j' to be executed.
l = The number of the phase at which suspension of diagnostic execution is desired.
m = The number of the segment number at which suspension of diagnostic execution is desired.

4. SYSTEM RESPONSE

NG = No good. The request has been denied. The message form is valid, but the request conflicts with current status.
PF = Printout follows. The request has been accepted. Followed by the EX:LUHLSC output message.

5. REFERENCES

Input Message(s):

STP: LUHLSC

Output Message(s):

EX: LUHLSC
**EX:MA**

**Software Release:** 5E14 and later  
**Command Group:**  
**Application:** 5  
**Type:** Input

### 1. PURPOSE

Requests interactive diagnostics (exercises) of the metallic access (MA) board. This message is used primarily for manual troubleshooting.

Format 1 starts a diagnostic exercise program on the MA board.

Format 2 resets the diagnostic options and begins executing the previously activated diagnostic program from the current point of suspension until the specified number of segments has been performed.

Format 3 inverts the state (from running to suspended or vice versa) of a previously activated diagnostic program.

Format 4 executes a portion of a previously activated diagnostic program.

Format 5 transfers control from the current point of suspension to the beginning of the specified segment of a previously activated diagnostic program, ignoring interim test failures.

To stop this exercise, use input message STP:MA. The unit will remain out of service.

### 2. FORMAT

1. `EX:MA=a-b-c-d,START[,GROW];`
2. `EX:MA=a-b-c-d[,UCL][,RAW][,SYNCH=g-h-i],STEP=e[,TLP];`
3. `EX:MA=a-b-c-d;`
4. `EX:MA=a-b-c-d[,UCL][,RAW][,SYNCH=g-h-i][,RPT=[f]],PH=j-k[,TLP];`
5. `EX:MA=a-b-c-d,PAUSE=l-m;`

### 3. EXPLANATION OF MESSAGE

- **GROW** = Allow access to growth equipment.
- **RAW** = Print raw test failure data.
- **TLP** = Print ordered pack list.
- **UCL** = Execute unconditionally.
- **a** = Switching module (SM) number.
- **b** = Metallic service unit number.
- **c** = Service group number.
- **d** = Board number.
= The number of segments to be executed, beginning from the current point of suspension.

f = Number of times the exercise is to be repeated. Default=32,767.

= The number of the phase that has statement ‘i’ and segment ‘h’ (SM units only).

= The number of the segment that has statement ‘i’ (SM units only).

= The number of the statement at the beginning of which a synchronizing pulse is to be generated (SM units only).

= The number of the phase of the segment(s) to be executed.

= The number of the segment or range of segments in phase ‘j’ to be executed.

= The number of the phase at which suspension of diagnostic execution is desired.

= The segment number at which suspension of diagnostic execution is desired.

4. SYSTEM RESPONSE

NG = No good. The request has been denied. The message form is valid, but the request conflicts with current status.

PF = Printout follows. The request has been accepted. Followed by the EX:MA output message.

5. REFERENCES

Input Message(s):

STP : MA

Output Message(s):

EX : MA

Other Manual(s):

235-105-220  Corrective Maintenance
EX:MAB

Software Release: 5E14 and later
Command Group: Application: 5
Type: Input

1. PURPOSE

Requests that the metallic access bus (MAB) be exercised to determine whether it is in satisfactory working order. This message is used primarily for manual troubleshooting.

Format 1 starts a diagnostic exercise program on the MAB. Format 2 resets the diagnostic options and begins executing the previously activated diagnostic program from the current point of suspension until the specified number of segments has been performed. Format 3 inverts the state (from running to suspended or vice versa) of a previously activated diagnostic program. Format 4 executes a portion of a previously activated diagnostic program. Format 5 transfers control from the current point of suspension to the beginning of the specified segment of a previously activated diagnostic program, ignoring interim test failures. To stop this exercise, use the STP:MAB input message. The unit will remain out of service.

2. FORMAT

[1] EX:MAB=a-b-c-d,START[,GROW];
[2] EX:MAB=a-b-c-d[,RAW][,UCL][,SYNCH=g-h-i],STEP=e[,TLP];
[4] EX:MAB=a-b-c-d[,RAW][,UCL][,RPT[]=f][,SYNCH=g-h-i][,PH={j|(j-k)}][,TLP];
[5] EX:MAB=a-b-c-d,PAUSE=l-m;

3. EXPLANATION OF MESSAGE

GROW = Allow access to growth equipment.
RAW = Print data from raw data test failure.
TLP = Print ordered pack list.
UCL = Execute unconditionally.
a = Switching module (SM) number.
b = Unit number.
c = Service group number.
d = Board number.
e = The number of segments to be executed, beginning from the current point of suspension.
f = The number of times the exercise is to be repeated. Default is 32,767.
g = The number of the phase that has statement ‘i’ and segment ‘h’ (SM units only).
\( h \) = The number of the segment that has statement '1' (SM units only).

\( i \) = The number of the statement at the beginning of which a synchronous pulse is to be generated (SM units only).

\( j \) = The number of the phase of the segment(s) to be executed.

\( k \) = The number of the segment or range of segments in phase 'j' to be executed.

\( l \) = The number of the phase at which suspension of diagnostic execution is desired.

\( m \) = The segment number at which suspension of diagnostic execution is desired.

4. SYSTEM RESPONSE

NG = No good. The request has been denied. The message form is valid, but the request conflicts with current status.

PF = Printout follows. The request was accepted. Followed by the EX:MAB output message.

5. REFERENCES

Input Message(s):

STP:MAB

Output Message(s):

EX:MAB

Other Manual(s):

235-105-220 Corrective Maintenance

MCC Display Page(s):

113Y (MSU Y SG 0)
114Y (MSU Y SG 1)
1. PURPOSE

Interactively diagnoses (exercises) the module controller/time-slot interchange (MCTSI) unit. This message is used primarily for manual troubleshooting.

Format 1 starts a diagnostic exercise program on the MCTSI unit. Format 2 resets the diagnostic options and begins executing the previously activated diagnostic program from the current point of suspension until the specified number of segments has been performed. Format 3 inverts the state (from running to suspended or vice versa) of a previously activated diagnostic program. Format 4 executes a portion of a previously activated diagnostic program. Format 5 transfers control from the current point of suspension to the beginning of the specified segment of a previously activated diagnostic program, ignoring interim test failures. To stop this exercise, use input message STP:MCTSI. The unit will remain out of service.

2. FORMAT

[1] EX:MCTSI=a-b,START[,GROW];
[2] EX:MCTSI=a-b[,UCL][,RAW][,SYNCH=e-f-g],STEP=c[,TLP];
[3] EX:MCTSI=a-b;
[4] EX:MCTSI=a-b[,UCL][,RAW][,SYNCH=e-f-g][,RPT=d],PH=h-i[,TLP];
[5] EX:MCTSI=a-b,PAUSE=j-k;

3. EXPLANATION OF MESSAGE

GROW = Allow access to growth equipment.
RAW = Print raw test failure data.
TLP = Print ordered pack list.
UCL = Execute unconditionally.
a = Switching module (SM) number.
b = Module control unit number.
c = The number of segments to be executed, beginning from the current point of suspension.
d = The number of times the exercise is to be repeated. Default=32,767.
e = The number of the phase that has statement 'g' and segment 'f' (SM units only).
f = The number of the segment that has statement 'g' (SM units only).
g = The number of the statement at the beginning of which a synchronizing pulse is to be generated (SM units only).
h = The number of the phase of the segment(s) to be executed.

i = The number of the segment or range of segments in phase ‘h’ to be executed.

j = The number of the phase at which suspension of diagnostic execution is desired.

k = The segment number at which suspension of diagnostic execution is desired.

4. SYSTEM RESPONSE

NG = No good. The request has been denied. The message form is valid, but the request conflicts with current status.

PF = Printout follows. The request has been accepted. Followed by the EX:MCTSI output message.

5. REFERENCES

Input Message(s):

STP:MCTSI

Output Message(s):

EX:MCTSI
**EX:MHD**

**Software Release:** 5E14 and later  
**Command Group:** AM  
**Application:** 5,3B  
**Type:** Input

1. **PURPOSE**


2. **FORMAT**

    EX:MHD=a[:[RAW][,UCL]],PH=b[,TLP];

3. **EXPLANATION OF MESSAGE**

   **RAW**
   
   = Print all the diagnostic failures. Default is the first five failures.

   **TLP**
   
   = Execute the trouble locating procedure (TLP) at the conclusion of the diagnostic. This process generates a list of suspected faulty equipment.

   **NOTE:** It is not recommended that the TLP and UCL parameters be specified together, as it may produce an improper TLP listing

   **UCL**
   
   = Execute unconditionally.

   **NOTE:** This option does not override forced early terminations.

   **a**
   
   = Member number.

   **b**
   
   = Execute the specified phase.

   **NOTE:** The phase will not be executed until subsequent messages from the EX:LOOP, EX:PAUSE, EX:STEP, and EX:STOP input messages are input.

4. **SYSTEM RESPONSE**

   **PF**
   
   = Printout follows. Followed by the EX:MHD output message.

5. **REFERENCES**

   **Input Message(s):**
   
   DGN:MHD  
   EX:LOOP  
   EX:PAUSE  
   EX:STEP  
   EX:STOP  
   STOP:DMQ  
   STP:DMQ

   **Output Message(s):**
EX:MI-A

Software Release: 5E14 only
Command Group: CM
Application: 5
Type: Input

1. PURPOSE

Requests that the message interface (MI) be exercised in an interactive mode. This message is used primarily for manual troubleshooting.

Format 1 activates the interactive diagnostic program.

Format 2 begins executing the previously activated diagnostic program from the current point of suspension until the specified number of segments has been performed. The number of segments is given by the STEP parameter.

Format 3 executes the requested phase and segment or range of segments of a previously activated diagnostic program.

Format 4 causes a previously activated diagnostic program to suspend immediately, rather than completing the previous message (valid after using either Format 2 or 3).

Format 5 resets the diagnostic options and resumes executing the previously activated diagnostic program from the current point of suspension. This format is used to restart the exercise after suspending it using Format 4.

Format 6 transfers control from the current point of suspension to the beginning of the specified phase and segment of a previously activated diagnostic program, ignoring interim test failures. When the requested phase and segment are reached, the exercise will pause.

NOTE: Use the STP:MI message to terminate the exercise. Also, execute Format 1 first before attempting to use any of the other formats.

2. FORMAT

[1] EX:MI=a,START[,HELPER=b];
[2] EX:MI=a[,UCL][,RAW],STEP=c[,TLP];
[3] EX:MI=a[,UCL][,RAW][,RPT[=d]],PH=e-f&&g[,TLP];
[4] EX:MI=a;
[5] EX:MI=a[,UCL][,RAW][,RPT[=d]][,TLP];
[6] EX:MI=a,PAUSE=h-i;

3. EXPLANATION OF MESSAGE

RAW = Print raw test failure data.
TLP = Print the ordered suspected pack list if a test fails.
UCL = Print all test results unconditionally rather than just printing the first failing test.
a = MI side.
b = Foundation peripheral controller (FPC) side to be used as a 'helper' unit for the diagnostic. If this option is not input the standby FPC will be used.

c = The number of segments to be executed, beginning from the current point of suspension. Ignore all specified RPT options.

d = Number of times the exercise is to be repeated (default is 32,767). Ignore if STEP option is specified.

e = The number of the phase to be executed.

f = The number of segment in phase 'e' to be executed, or the lower limit in a range of segments.

g = Upper limit in a range of segments to be executed in phase 'e'.

h = The phase number at which suspension of the diagnostic execution is desired.

i = The segment of phase 'h' at which suspension of the diagnostic execution is desired.

4. SYSTEM RESPONSE

NG = No good. The request has been denied. The message syntax is valid, but the request could not be processed.

PF = Printout follows. Followed by the EX:MI output message.

RL = Retry later. The request cannot be executed now.

5. REFERENCES

Input Message(s):

ABT:MI
DGN:MI
STP:MI

Input Appendix(es):

APP:CM–IM–REASON

Output Message(s):

EX:MI

Other Manual(s):
235-105-210    Routine Operations and Maintenance
EX:MI-B

Software Release: 5E15 and later
Command Group: CM
Application: 5
Type: Input

1. PURPOSE

Requests that the message interface (MI) be exercised in an interactive mode. This message is used primarily for manual troubleshooting. This command is not applicable in Communication Module 3 (CM3) office.

Format 1 activates the interactive diagnostic program.

Format 2 begins executing the previously activated diagnostic program from the current point of suspension until the specified number of segments has been performed. The number of segments is given by the STEP parameter.

Format 3 executes the requested phase and segment or range of segments of a previously activated diagnostic program.

Format 4 causes a previously activated diagnostic program to suspend immediately, rather than completing the previous message (valid after using either Format 2 or 3).

Format 5 resets the diagnostic options and resumes executing the previously activated diagnostic program from the current point of suspension. This format is used to restart the exercise after suspending it using Format 4.

Format 6 transfers control from the current point of suspension to the beginning of the specified phase and segment of a previously activated diagnostic program, ignoring interim test failures. When the requested phase and segment are reached, the exercise will pause.

Note: Use the STP:MI message to terminate the exercise. Also, execute Format 1 first before attempting to use any of the other formats.

2. FORMAT

[1] EX:MI=a,START[,HELPER=b];

[2] EX:MI=a[,UCL][,RAW],[STEP=c[,TLP]];

[3] EX:MI=a[,UCL][,RAW][,RPT=d][,PH=e-f[&g]][,TLP];

[4] EX:MI=a;

[5] EX:MI=a[,UCL][,RAW][,RPT=d][,TLP];

[6] EX:MI=a,PAUSE=h-i;

3. EXPLANATION OF MESSAGE

RAW = Print raw test failure data.

TLP = Print the ordered suspected pack list if a test fails.

UCL = Print all test results unconditionally rather than just printing the first failing test.

a = MI side.
b = Foundation peripheral controller (FPC) side to be used as a ‘helper’ unit for the diagnostic. If this option is not input the standby FPC will be used.

c = The number of segments to be executed, beginning from the current point of suspension. Ignore all specified RPT options.

d = Number of times the exercise is to be repeated (default is 32,767). Ignore if STEP option is specified.

e = The number of the phase to be executed.

f = The number of segment in phase ‘e’ to be executed, or the lower limit in a range of segments.

g = Upper limit in a range of segments to be executed in phase ‘e’.

h = The phase number at which suspension of the diagnostic execution is desired.

i = The segment of phase ‘h’ at which suspension of the diagnostic execution is desired.

4. SYSTEM RESPONSE

NG = No good. The request has been denied. The message syntax is valid, but the request could not be processed.

PF = Printout follows. Followed by the EX:MI output message.

RL = Retry later. The request cannot be executed now.

5. REFERENCES

Input Message(s):

   ABT:MI
   DGN:MI
   STP:MI

Input Appendix(es):

   APP:CM-IM-REASON

Output Message(s):

   EX:MI

Other Manual(s):

235-105-210  Routine Operations and Maintenance
235-105-220  Corrective Maintenance
**EX:MMP**

Software Release: 5E14 and later
Command Group: CM
Application: 5
Type: Input

1. **PURPOSE**

Requests that the module message processor (MMP) be exercised in an interactive mode. This message is used primarily for manual troubleshooting.

Format 1 activates the interactive diagnostic program.

Format 2 begins executing the previously activated diagnostic program from the current point of suspension until the specified number of segments has been performed. The number of segments is given by the STEP parameter.

Format 3 executes the requested phase and segment or range of segments of a previously activated diagnostic program.

Format 4 causes a previously activated diagnostic program to suspend immediately, rather than completing the previous message (valid after using either Format 2 or 3).

Format 5 resets the diagnostic options and resumes executing the previously activated diagnostic program from the current point of suspension. This format is used to restart the exercise after suspending it using Format 4.

Format 6 transfers control from the current point of suspension to the beginning of the specified phase and segment of a previously activated diagnostic program, ignoring interim test failures. When the requested phase and segment are reached, the exercise will pause.

Note 1: Use the STP:MMP message to terminate the exercise. Also, execute Format 1 first before attempting to use any of the other formats.

Note 2: This command is not applicable to offices having CM3 vintage communication modules.

2. **FORMAT**

   [1] EX:MMP=a-b,START[,GROW];
   [2] EX:MMP=a-b[,UCL][,RAW],STEP=c[,TLP];
   [3] EX:MMP=a-b[,UCL][,RAW][,RPT=d],PH=e-f[&g][,TLP];
   [4] EX:MMP=a-b;
   [5] EX:MMP=a-b[,UCL][,RAW][,RPT=d][,TLP];
   [6] EX:MMP=a-b,PAUSE=h-i;

3. **EXPLANATION OF MESSAGE**

   GROW = Allow access to growth equipment.
   RAW = Print raw test failure data.
   TLP = Print ordered suspected pack list if a test fails.
UCL = Print all test results unconditionally rather than just printing the first failing test.

a = Message switch side.

b = MMP number.

c = The number of segments to be executed, beginning from the current point of suspension. Ignores all specified RPT options.

d = Number of times the exercise is to be repeated (default is 32,767). Ignore if the STEP option is specified.

e = The number of the phase to be executed.

f = The number of the segment in phase ‘e’ to be executed, or the lower limit in a range of segments.

g = Upper limit in a range of segments to be executed in phase ‘e’.

h = The phase number at which suspension of the diagnostic execution is desired.

i = The segment of phase ‘h’ at which suspension of the diagnostic execution is desired.

4. SYSTEM RESPONSE

NG = No good. The request has been denied. The message syntax is valid, but the request could not be processed.

PF = Printout follows. Followed by the EX:MMP output message.

RL = Retry later. The request cannot be executed now.

5. REFERENCES

Input Message(s):

ABT:MMP
DGN:MMP
STP:MMP

Input Appendix(es):

APP:CM-IM-REASON

Output Message(s):

EX:MMP
EX:MSCU

Software Release: 5E14 and later
Command Group: CM
Application: 5
Type: Input

1. PURPOSE

Requests that the message switch control unit (MSCU) be exercised in an interactive mode. This message is used primarily for manual troubleshooting.

Format 1 activates the interactive diagnostic program.

Format 2 begins executing the previously activated diagnostic program from the current point of suspension until the specified number of segments has been performed. The number of segments is given by the STEP parameter.

Format 3 executes the requested phase and segment or range of segments of a previously activated diagnostic program.

Format 4 causes a previously activated diagnostic program to suspend immediately, rather than completing the previous message (valid after using either Format 2 or 3).

Format 5 resets the diagnostic options and resumes executing the previously activated diagnostic program from the current point of suspension. This format is used to restart the exercise after suspending it using Format 4.

Format 6 transfers control from the current point of suspension to the beginning of the specified phase and segment of a previously activated diagnostic program, ignoring interim test failures. When the requested phase and segment are reached, the exercise will pause.

Note 1: Use the STP:MSCU message to terminate the exercise. Also, execute Format 1 first before attempting to use any of the other formats.

Note 2: This command is not applicable to offices having CM3 vintage communication modules.

2. FORMAT

[1] EX:MSCU=a,START;
[2] EX:MSCU=a[,UCL][,RAW],STEP=b[,TLP];
[3] EX:MSCU=a[,UCL][,RAW][,RPT[=c]],PH=d-e[&f][,TLP];
[4] EX:MSCU=a;
[5] EX:MSCU=a[,UCL][,RAW][,RPT[=c]][,TLP];
[6] EX:MSCU=a,PAUSE=g-h;

3. EXPLANATION OF MESSAGE

RAW = Print the raw test failure data.
TLP = Print an ordered suspected pack list if a test fails.
UCL = Print all test results unconditionally rather than just printing the first failing test.
a = MSCU side.
b = The number of segments to be executed, beginning from the current point of suspension. Ignore all specified RPT options.
c = Number of times exercise is to be repeated (default is 32,767). Ignore if the STEP option is specified.
d = The number of the phase to be executed.
e = The number of segment in phase ‘d’ to be executed, or the lower limit in a range of segments.
f = Upper limit of range of segments to be executed in phase ‘d’.
g = The phase number at which suspension of the diagnostic execution is desired.
h = The segment of phase ‘g’ at which suspension of the diagnostic execution is desired.

4. SYSTEM RESPONSE

NG = No good. The request has been denied. The message syntax is valid, but the request could not be processed.
PF = Printout follows. Followed by the EX:MSCU output message.
RL = Retry later. The request cannot be executed now.

5. REFERENCES

Input Message(s):
ABT:MSCU
DGN:MSCU
STP:MSCU

Input Appendix(es):
APP:CM-IM-REASON

Output Message(s):
EX:MSCU

Other Manual(s):
235-105-210 Routine Operations and Maintenance
235-105-220 Corrective Maintenance
EX:MSUCOM
Software Release: 5E14 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Interactively diagnoses (exercises) the metallic service unit common (MSUCOM) board. This message is used primarily for manual troubleshooting.

Format 1 starts a diagnostic exercise program on the MSUCOM board. Format 2 resets the diagnostic option and begins executing the previously activated diagnostic program from the current point of suspension until the specified number of segments has been performed. Format 3 inverts the state (from running to suspended or vice versa) of a previously activated diagnostic program. Format 4 executes a portion of a previously activated diagnostic program. Format 5 transfers control from the current point of suspension to the beginning of the specified segment of a previously activated diagnostic program, ignoring interim test failures. To stop this exercise, use input message STP:MSUCOM. The unit will remain out of service.

2. FORMAT

[1] EX:MSUCOM=a-b-c,START[,GROW];
[2] EX:MSUCOM=a-b-c[,UCL][,RAW][,SYNCH=f-g-h],STEP=d[,TLP];
[3] EX:MSUCOM=a-b-c;
[4] EX:MSUCOM=a-b-c[,UCL][,RAW][,SYNCH=f-g-h][,RPT[]=e],PH=i-j[,TLP];
[5] EX:MSUCOM=a-b-c,PAUSE=k-l;

3. EXPLANATION OF MESSAGE

GROW = Allow access to growth equipment.
RAW = Print raw test failure data.
TLP = Print ordered pack list.
UCL = Execute unconditionally.
a = Switching module (SM) number.
b = Metallic service unit number.
c = Service group number.
d = The number of segments to be executed, beginning from the current point of suspension.
e = The number of times the exercises is to be repeated. Default=32,767.
f = The number of the phase that has statement 'h' and segment 'g' (SM units only).
g = The number of the segment that has statement 'h' (SM units only).
h = The number of the statement at the beginning of which a synchronizing pulse is to be generated

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i = The number of the phase of the segment(s) to be executed.

j = The number of the segment or range of segments in phase 'i' to be executed.

k = The number of the phase at which suspension of diagnostic execution is desired.

l = The segment number at which suspension of diagnostic execution is desired.

4. SYSTEM RESPONSE

NG = No good. The request has been denied. The message form is valid, but the request conflicts with current status.

PF = Printout follows. The request has been accepted. Followed by the EX:MSUCOM output message.

5. REFERENCES

Input Message(s):

STP:MSUCOM

Output Message(s):

EX:MSUCOM
**EX:MT**

**Software Release:** 5E14 and later  
**Command Group:** AM  
**Application:** 5,3B  
**Type:** Input

1. **PURPOSE**


2. **FORMAT**

EX:MT=a[; [RAW] [,UCL]] :DATA, Ph=b [,TLP];

3. **EXPLANATION OF MESSAGE**

   - **RAW** = Print all diagnostic failures. Default is the first five failures.
   - **TLP** = Execute the trouble locating procedure (TLP) at the conclusion of the diagnostic. This process generates a list of suspected faulty equipment.
     
     **NOTE:** It is not recommended that the TLP and UCL parameters be specified together, because it may produce an improper TLP listing.

   - **UCL** = Execute unconditionally.
     
     **NOTE:** This option does not override forced early terminations.

   - **a** = Member number.

   - **b** = Execute the specified phase.

     **NOTE:** The phase is not executed until subsequent messages from the EX:LOOP, EX:PAUSE, EX:STEP, and EX:STOP input messages are input.

4. **SYSTEM RESPONSE**

   - **PF** = Printout follows. Followed by the EX:MT output message.

   - **RL** = Retry later. The system is in an overload condition.

   - **?I** = General syntax error, followed by the parameter position and one of the following reasons:
     - EXTRA KEYWORD = Duplicate or extraneous keywords were input.
     - INVALID KEYWORD = The keyword in the stated parameter position is not a valid keyword.
     - MISSING KEYWORD = A required keyword is missing from the input. Unit to diagnose must be specified.

   - **?D** = General syntax error in the data field, followed by the parameter position and one of the following reasons:
     - EXTRA KEYWORD = Duplicate or extraneous keywords were input.
     - INVALID KEYWORD = The keyword in the stated parameter position is not a valid keyword.
     - MISSING DATA = Data required for a keyword in the stated parameter block was not found.
- **MISSING KEYWORD** = A required keyword is missing from the input. Unit to diagnose must be specified.
- **RANGE ERROR** = Input is out of the valid range.

?E = Input error of undetermined type.

### 5. REFERENCES

Input Message(s):

```
DGN:MT
EX:LOOP
EX:PAUSE
EX:STEP
EX:STOP
```

Output Message(s):

```
ANALY:TLPFILE
DGN:MT
EX:MT
```
1. PURPOSE

Requests interactive diagnostics (exercises) of the metallic access test bus (MTB). This message is used primarily for manual troubleshooting.

Format 1 starts a diagnostic exercise program on the MTB.

Format 2 resets the diagnostic options and begins executing the previously activated diagnostic program from the current point of suspension until the specified number of segments has been performed.

Format 3 inverts the state (from running to suspended or vice versa) of a previously activated diagnostic program.

Format 4 executes a portion of a previously activated diagnostic program.

Format 5 transfers control from the current point of suspension to the beginning of the specified segment of a previously activated diagnostic program, ignoring interim test failures.

To stop this exercise, use input message STP:MTB. The unit will remain out of service.

2. FORMAT

[1] EX:MTB=a-b-c-d-n,START[,GROW];
[2] EX:MTB=a-b-c-d-n[,UCL][,RAW][,SYNCH=g-h-i],[STEP=e[,TLP];
[3] EX:MTB=a-b-c-d-n;
[4] EX:MTB=a-b-c-d-n[,UCL][,RAW][,SYNCH=g-h-i],[RPT=[f]],PH=j-k[,TLP];
[5] EX:MTB=a-b-c-d-n,PAUSE=l-m;

3. EXPLANATION OF MESSAGE

GROW = Allow access to growth equipment.
RAW = Print raw test failure data.
TLP = Print ordered pack list.
UCL = Execute unconditionally.
a = Switching module (SM) number.
b = Metallic service unit number.
c = Service group number.
d = Board number.
e = The number of segments to be executed, beginning from the current point of suspension.
f = Number of times the exercise is to be repeated. Default=32,767.
g = The number of the phase that has statement ‘i’ and segment ‘h’ (SM units only).
h = The number of the segment that has statement ‘i’ (SM units only).
i = The number of the statement at the beginning of which a synchronizing pulse is to be generated (SM units only).
j = The number of the phase of the segment(s) to be executed.
k = The number of the segment or range of segments in phase ‘j’ to be executed.
l = The number of the phase at which suspension of diagnostic execution is desired.
m = The segment number at which suspension of diagnostic execution is desired.
n = MTB number.

4. SYSTEM RESPONSE

NG = No good. The request has been denied. The message form is valid, but the request conflicts with current status.

PF = Printout follows. The request has been accepted. Followed by the EX:MTB output message.

5. REFERENCES

Input Message(s):

STP:MTB

Output Message(s):

EX:MTB

Other Manual(s):

235-105-220 Corrective Maintenance
EX:MTC

Software Release: 5E14 and later
Command Group: AM
Application: 5,3B
Type: Input

1. PURPOSE


2. FORMAT

EX:MTC=a::[RAW],UCL],PH=b[,TLP][,MT=c];

3. EXPLANATION OF MESSAGE

RAW
= Print all the diagnostic failures. Default is to print the first five failures.

TLP
= Executes the trouble locating procedure (TLP) at the conclusion of the diagnostic. This process generates a list of suspected faulty equipment.

NOTE: It is not recommended that the TLP and UCL parameters be specified together, as it may produce an improper TLP listing.

UCL
= Execute unconditionally.

NOTE: This option does not override forced early terminations.

a
= Member number.

NOTE: The phase will not be executed until subsequent messages from the EX:LOOP, EX:PAUSE, EX:STEP and EX:STOP input messages are input.

b
= Number of the phase to be executed.

NOTE: The phase will not be executed until subsequent messages from the EX:LOOP, EX:PAUSE, EX:STEP and EX:STOP input messages are input.

c
= Member number of the magnetic tape device that is to be used as a helper unit. When a helper unit is not required, the specified helper unit is ignored. When a helper unit is required but the specified helper unit is inappropriate or unavailable, the helper unit dependent tests are skipped.

4. SYSTEM RESPONSE

PF
= Printout follows. Followed by the EX:MTC output message.

5. REFERENCES

Input Message(s):

DGN:MTC
EX:LOOP
EX:PAUSE
EX:STEP
EX:STOP
STOP:DMQ
STP:DMQ

Output Message(s):

ANALY:TLFFILE
DGN:MTC
EX:MTC
1. PURPOSE

Exercises the metallic test interconnect bus (MTIB) to determine if it is in satisfactory working order. This message is used primarily for manual troubleshooting.

Format 1 starts a diagnostic exercise program on the MTIB.

Format 2 resets the diagnostic options and begins executing the previously activated diagnostic program from the current point of suspension until the specified number of segments has been performed.

Format 3 inverts the state (from running to suspended or vice versa) of a previously activated diagnostic program.

Format 4 executes a portion of a previously activated diagnostic program.

Format 5 transfers control from the current point of suspension to the beginning of the specified segment of a previously activated diagnostic program, ignoring interim test failures.

To stop this exercise, use the STP:MTIB input message. The unit will remain out-of-service (OOS).

2. FORMAT

[1] EX:MTIB=a,START[,GROW];
[2] EX:MTIB=a[,RAW][,UCL][,SYNCH=d-e-f],STEP=b[,TLP];
[3] EX:MTIB=a;
[4] EX:MTIB=a[,RAW][,UCL][,RPT=[=c]][,SYNCH=d-e-f][,PH={(g|(g-h))}[[,]TLP];
[5] EX:MTIB=a,PAUSE=i-j;

3. EXPLANATION OF MESSAGE

GROW = Allow access to growth units.
RAW = Print data from raw data test failure.
TLP = Print ordered pack list.
UCL = Execute unconditionally.

a = MTIB number.
b = The number of segments to be executed, beginning from the current point of suspension.
c = Number of items the exercise is to be repeated. Default is 32,767.
d = The number of the phase that has statement '1' and segment 'h' [switching module (SM) units only].
e = The number of the segment that has statement '1' (SM units only).

f = The number of the statement at the beginning of which a synchronous pulse is to be generated (SM units only).

g = The number of the phase of the segment(s) to be executed.

h = The segment or range of segments in phase 'j' to be executed.

i = The phase at which suspension of diagnostic execution is desired.

j = The segment number at which suspension of diagnostic execution is desired.

4. SYSTEM RESPONSE

NG = No good. The request has been denied. The message form is valid, but the request conflicts with current status.

PF = Printout follows. The request was accepted. Followed by the EX:MTIB output message.

5. REFERENCES

Input Message(s):

STP:MTIB

Output Message(s):

EX:MTIB
EX:MTIBAX

Software Release: 5E14 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Exercises the metallic test interconnect bus access (MTIBAX) to determine whether it is in satisfactory working order. This message is used primarily for manual troubleshooting.

Format 1 starts a diagnostic exercise program on the MTIBAX.

Format 2 resets the diagnostic options and begins executing the previously activated diagnostic program from the current point of suspension until the specified number of segments has been performed.

Format 3 inverts the state (from running to suspended or vice versa) of a previously activated diagnostic program.

Format 4 executes a portion of a previously activated diagnostic program.

Format 5 transfers control from the current point of suspension to the beginning of the specified segment of a previously activated diagnostic program, ignoring interim test failures.

To stop this exercise, use the STP:MTIBAX input message. The unit will remain out of service.

2. FORMAT

[1] EX:MTIBAX=a-b-c-d,START[,GROW];
[2] EX:MTIBAX=a-b-c-d[,RAW][,UCL][,SYNCH=g-h-i],STEP=e[,TLP];
[4] EX:MTIBAX=a-b-c-d[,RAW][,UCL][,RPT=[f]][,SYNCH=g-h-i][,PH={(j|(j-k))}],TLP;
[5] EX:MTIBAX=a-b-c-d,PAUSE=l-m;

3. EXPLANATION OF MESSAGE

GROW    = Allow access to growth equipment.
RAW     = Print data from raw data test failure.
TLP     = Print ordered pack list.
UCL     = Execute unconditionally.
a       = Switching module (SM) number.
         = Unit number.
c       = Service group number.
d       = Board number.
e = The number of segments to be executed, beginning from the current point of suspension.

f = The number of items the exercises is to be repeated. Default is 32,767.

g = The number of the phase that has statement 'i' and segment 'h' (SM units only).

h = The number of the segment that has statement 'i' (SM units only).

i = The number of the statement at the beginning of which a synchronous pulse is to be generated (SM units only).

j = The number of the phase of the segment(s) to be executed.

k = The number of the segment or range of segments in phase 'j' to be executed.

l = The number of the phase at which suspension of diagnostic execution is desired.

m = The segment number at which suspension of diagnostic execution is desired.

4. SYSTEM RESPONSE

NG = No good. The request has been denied. The message form is valid, but the request conflicts with current status.

PF = Printout follows. The request was accepted. Followed by the EX:MTIBAX output message.

5. REFERENCES

Input Message(s):

STP:MTIBAX

Output Message(s):

EX:MTIBAX
**EX:MTTYC**

**Software Release:** 5E14 and later  
**Command Group:** AM  
**Application:** 5,3B  
**Type:** Input

1. **PURPOSE**


2. **FORMAT**

EX:MTTYC=a [: [RAW][, UCL] ], PH=b [, TLP];

3. **EXPLANATION OF MESSAGE**

- **RAW**  
  - = Print all the diagnostic failures. The default is to print the first five failures.

- **TLP**  
  - = Execute the trouble locating procedure (TLP) at the conclusion of the diagnostic. This process generates a list of suspected faulty equipment.
  
  **NOTE:** The TLP and UCL parameters should not be used together, as additional test results may adversely affect the TLP listing.

- **UCL**  
  - = Execute unconditionally.
  
  **NOTE:** This option does not override forced early terminations.

- **a**  
  - = Member number.

- **b**  
  - = Executes the specified phase.
  
  **NOTE:** The phase will not be executed until subsequent messages from the EX:LOOP, EX:PAUSE EX:STEP, and EX:STOP input messages are input.

4. **SYSTEM RESPONSE**

PF  
- = Printout follows. Followed by the EX:MTTYC output message.

5. **REFERENCES**

Input Message(s):

DGN:MTTYC  
EX:LOOP  
EX:PAUSE  
EX:STEP  
EX:STOP  
STOP:DMQ  
STP:DMQ

Output Message(s):


EX:NC-A  
Software Release: 5E14 only  
Command Group: CM  
Application: 5  
Type: Input  

1. PURPOSE  
Requests that the network clock (NC) be exercised in an interactive mode. This message is used primarily for manual troubleshooting.  

Format 1 activates the interactive diagnostic program.  

Format 2 begins executing the previously activated diagnostic program from the current point of suspension until the specified number of segments has been performed. The number of segments is given by the STEP parameter.  

Format 3 executes the requested phase and segment or range of segments of a previously activated diagnostic program.  

Format 4 causes a previously activated diagnostic program to suspend immediately, rather than completing the previous message (valid after using either Format 2 or 3).  

Format 5 resets the diagnostic options and resumes executing the previously activated diagnostic program from the current point of suspension. This format is used to restart the exercise after suspending it using Format 4.  

Format 6 transfers control from the current point of suspension to the beginning of the specified phase and segment of a previously activated diagnostic program, ignoring interim test failures. When the requested phase and segment are reached, the exercise will pause.  

NOTE: Use the STP:NC message to terminate the exercise. Also, execute Format 1 first before attempting to use any of the other formats.  

2. FORMAT  

[1] EX:NC=a,START[,HELPER=b];  
[2] EX:NC=a[,UCL][,RAW],STEP=c[,TLP];  
[3] EX:NC=a[,UCL][,RAW][,RPT [=d]],PH=e-f[&g][,TLP];  
[4] EX:NC=a;  
[5] EX:NC=a[,UCL][,RAW][,RPT [=d]][,TLP];  
[6] EX:NC=a,PAUSE=h-i;  

3. EXPLANATION OF MESSAGE  

RAW  = Print raw test failure data.  
TLP  = Print the ordered suspected pack list if a test fails.  
UCL  = Print all test results unconditionally rather than just printing the first failing test.  
a  = NC side.
b = Foundation peripheral controller (FPC) side (0 or 1) to be used as a 'helper' unit for the diagnostic. If this option is not input the standby FPC will be used.

c = The number of segments to be executed, beginning from the current point of suspension. Ignore all specified RPT options.

d = Number of times the exercise is to be repeated (default is 32,767). Ignore if STEP option is specified.

e = The number of the phase to be executed.

f = The number of segment in phase 'e' to be executed, or the lower limit in a range of segments.

g = Upper limit in a range of segments to be executed in phase 'e'.

h = The phase number at which suspension of the diagnostic execution is desired.

i = The segment of phase 'h' at which suspension of the diagnostic execution is desired.

4. SYSTEM RESPONSE

NG = No good. The request has been denied. The message syntax is valid, but the request could not be processed.

PF = Printout follows. Followed by the EX:NC output message.

RL = Retry later. The request cannot be executed now.

5. REFERENCES

Input Message(s):

ABT:NC
DGN:NC
STP:NC

Input Appendix(es):

APP:CM-IM-REASON
1. PURPOSE

Requests that the network clock (NC) be exercised in an interactive mode. This message is used primarily for manual troubleshooting. This command is not applicable in Communication Module 3 (CM3) office.

Format 1 activates the interactive diagnostic program.

Format 2 begins executing the previously activated diagnostic program from the current point of suspension until the specified number of segments has been performed. The number of segments is given by the STEP parameter.

Format 3 executes the requested phase and segment or range of segments of a previously activated diagnostic program.

Format 4 causes a previously activated diagnostic program to suspend immediately, rather than completing the previous message (valid after using either Format 2 or 3).

Format 5 resets the diagnostic options and resumes executing the previously activated diagnostic program from the current point of suspension. This format is used to restart the exercise after suspending it using Format 4.

Format 6 transfers control from the current point of suspension to the beginning of the specified phase and segment of a previously activated diagnostic program, ignoring interim test failures. When the requested phase and segment are reached, the exercise will pause.

Note: Use the STP:NC message to terminate the exercise. Also, execute Format 1 first before attempting to use any of the other formats.

2. FORMAT

[1] EX:NC=a,START[,HELPER=b];

[2] EX:NC=a[,UCL][,RAW],STEP=c[,TLP];

[3] EX:NC=a[,UCL][,RAW][,RPT[=d]],PH=e-f[&g][,TLP];

[4] EX:NC=a;

[5] EX:NC=a[,UCL][,RAW][,RPT[=d]][,TLP];

[6] EX:NC=a,PAUSE=h-i;

3. EXPLANATION OF MESSAGE

RAW = Print raw test failure data.

TLP = Print the ordered suspected pack list if a test fails.

UCL = Print all test results unconditionally rather than just printing the first failing test.

a = NC side.
b = Foundation peripheral controller (FPC) side (0 or 1) to be used as a 'helper' unit for the diagnostic. If this option is not input the standby FPC will be used.

c = The number of segments to be executed, beginning from the current point of suspension. Ignore all specified RPT options.

d = Number of times the exercise is to be repeated (default is 32,767). Ignore if STEP option is specified.

e = The number of the phase to be executed.

f = The number of segment in phase 'e' to be executed, or the lower limit in a range of segments.

g = Upper limit in a range of segments to be executed in phase 'e'.

h = The phase number at which suspension of the diagnostic execution is desired.

i = The segment of phase 'h' at which suspension of the diagnostic execution is desired.

4. SYSTEM RESPONSE

NG = No good. The request has been denied. The message syntax is valid, but the request could not be processed.

PF = Printout follows. Followed by the EX:NC output message.

RL = Retry later. The request cannot be executed now.

5. REFERENCES

Input Message(s):

ABT:NC
DGN:NC
STP:NC

Input Appendix(es):

APP:CM-IM-REASON
EX:NLI

**Software Release:** 5E14 and later  
**Command Group:** CM  
**Application:** 5  
**Type:** Input

1. PURPOSE

Requests that the network link interface (NLI) be exercised in a switching module (SM) on the specified office network and timing complex (ONTC) side.

**NOTE:** If the unit is not out-of-service (OOS), the system first removes the unit conditionally.

Format 1 activates a diagnostic program on the NLI.

Format 2 resets the diagnostics options and begins executing the previously activated diagnostic program from the current point of suspension until the specified number of segments has been performed.

Format 3 inverts (toggles) the state of a previously activated diagnostic program from "running" to "suspended" or vice versa.

Format 4 transfers control from the current point of suspension to the beginning of the specified segment of a previously activated diagnostic program, ignoring interim test failures. It then executes the specified segment or segment range according to the specified options.

Format 5 transfers control from the current point of suspension to the beginning of the specified segment of a previously activated diagnostic program, ignoring interim test failures.

**NOTE:** To stop any of these exercises, use the STP:NLI input message.

2. FORMAT

[1] EX:NLI=a-b-c,START[,GROW];  
[2] EX:NLI=a-b-c[,UCL][,RAW],STEP=d[,TLP][,SYNCH=e-f-g];  
[3] EX:NLI=a-b-c;  
[4] EX:NLI=a-b-c[,UCL][,RAW][,RPT[=h]],PH=i-j[&k][,TLP];  
[5] EX:NLI=a-b-c,PAUSE=l-m;

3. EXPLANATION OF MESSAGE

**GROW** = Interactively diagnose an NLI in the GROW state, or in an SM in the special grow (SGRO) state. If the NLI is GROW or the SM is in the SGRO equipage state, this option must be input to perform the diagnostic.

**RAW** = Print the raw test results for each phase executed.

**RPT** = Repeat the diagnostic segment(s) 'h' times.

**TLP** = Execute the trouble location procedure at the conclusion of the exercise. This process prints an ordered suspect pack list if a test fails.

**UCL** = Unconditionally execute all required tests and print all test failures, rather than printing only the
first failure and stopping.

\(a\) = SM number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

\(b\) = NLI number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

\(c\) = ONTC side number.

\(d\) = Number of segments to be executed, beginning at the current point of suspension.

\(e\) = The number of the phase that has statement 'g' and segment 'f'.

\(f\) = The number of the segment that has statement 'g'.

\(g\) = The number of the statement at the beginning of which a synchronizing pulse is to be generated.

\(h\) = Number of times the diagnostic segment(s) are to be repeated (default is 32,767).

\(i\) = Number of the phase (PH) that has the segment(s) to be executed.

\(j\) = Segment number, or the lower limit of a range of segment numbers, in phase 'i' to be executed.

\(k\) = Upper limit in a range of segment numbers in phase 'i' to be executed.

\(l\) = Number of the phase at which suspension of diagnostic execution is desired.

\(m\) = Number of the segment in phase 'l' at which suspension of diagnostic execution is desired.

4. SYSTEM RESPONSE

\(NG\) = No good. The request has been denied. The message syntax is valid, but the request could not be processed. Refer to the APP:CM-IM-REASON appendix in the Appendixes section of the Input Messages manual for a list of possible reasons for denying the request.

\(PF\) = Printout follows. Followed by the EX:NLI output message.

\(RL\) = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

Input Message(s):

- ABT:NLI
- DGN:NLI
- OP:DMQ-CM-SM
- RMV:NLI
- RST:NLI
- STP:NLI

Output Message(s):

- EX:NLI
EX:OTO

Software Release: 5E14 and later
Command Group: TRKLN
Application: 5
Type: Input

1. PURPOSE

Requests that the office-to-office (OTO) program on analog, integrated SLC®, or integrated digital carrier unit (IDCU) lines be exercised to provide pre-cutover verification of cross-connect wiring and line translations during transfer from an existing in-service office to a 5ESS® switch office. Multiple requests can be handled simultaneously, with the limiting factor being the number of test trunks between the offices.

OTO testing should be performed during low traffic periods to minimize false shorts, busy line blocking, and the possibility of message throttling. To further reduce the possibility of loss of test results due to message throttling, it is strongly recommended that the all tests passed (ATP) option not be used. Refer also to the INH:BREVC input message. The ATP option adds 15 seconds between each line tested to prevent loss due to message throttling. If testing analog lines from a crossbar or 5ESS® switch office, the maximum value of the outpulse timing (OT) option is recommended to allow sufficient delay for detection of traffic busy lines. Enhancements to the short test performed on analog lines provide minimal line unit hardware tests of the tip and ring crosspoints and scan detector circuitry. To avoid test path contention during OTO testing of SLC® or IDCU lines, there should be no loop maintenance testing in progress over the existing office SLC® or IDCU system. When exercising a range of directory numbers (DNs), if the first line translates to a SLC® or IDCU line, any analog lines in the range will be reported as UNTESTABLE. Conversely, if the first line translates to an analog line, any SLC® or IDCU lines in the range will be reported UNTESTABLE. Testing of lines served by IDCU is supported only for TR008 interface remote terminals (RTs). All TR303 interface RT lines encountered will be reported as UNTESTABLE. The office code (OC) option is provided to accommodate the testing of SLC® line equipment number (SLEN) and IDCU line equipment number (ILEN) ranges which span multiple office codes. This option must be used if the in-service switch permits access to only one office code for any given local test desk (LTD) test trunk, or if the route index of the 5ESS® switch OTO trunk is assigned prefix digits to correctly format DNs for outpulsing to the existing office. The OC parameter may be assigned the value ALL to test multiple office codes only for those cases where the aforementioned limitations do not exist. This option is valid for SLEN and ILEN specification only. If this parameter is omitted, the OC of the first assigned line in the SLEN or ILEN range will be assumed for the entire range. Lines assigned office codes different from that assumed for the range or specified with the OC option will be reported as OC-NOT-IN-RANGE. Due to the introduction of Local Number Portability - NPA/NXX feature 5ESS® office will support unique and non-unique office codes (NXX). Multiple NPAs can have same office codes. If the office code is non-unique, then the user has to specify 10 digit DNs including Area Code to correctly specify a DN. But if the office code is unique, then 7 digits are sufficient to correctly represent a DN.

2. FORMAT

EX:OTO=a-b[,NPA=a1],k[,OC={p|ALL}][,OT=q][,CT=r][,DT=s][,DEV=t][,ATP][,GLP][,PP=u][,W C=v];

3. EXPLANATION OF MESSAGE

ALL = Exercise all office codes covered by specified route index.

ATP = All tests passed. Print test results for each line that tests ATP. The default will print only lines that fail. This option is not recommended because it produces a large quantity of listings and therefore increases the possibility that results will be lost due to message throttling. This option also adds 15 seconds between each line tested to prevent loss of output due to message throttling.
GLP = Compare the ground/loop start wiring of the line attending elements in the existing office to the 5ESS® switch translations. (This option does not apply to testing of SLC® or IDCU lines).

a = Numerical code for existing office type. Valid value(s):
  1 = Step-by-step.
  2 = Crossbar equipped with non-no-test-trunk (members of multi-line hunt groups cannot be tested).
  3 = ESS™ office.
  12 = Crossbar equipped with no-test-trunk (members of multi-line hunt groups may be tested only if the 5ESS® switch assigns an individual DN to each member).

b = Route index (RTI) of the OTO trunk group. This number is found in the office record of route indexes or may be re-established by the user.

c = Three-digit office code.

d = Local digits of the first or only line in the DN range.

e = Local digits of the last line in the DN range.

f = Switching module (SM) number.

g = Digital carrier line unit (DCLU) number.

h = Remote terminal (RT) number.

i = RT line number of the first or only line in the SLEN range.

j = RT line number of the last line in the SLEN range.

k = Valid value(s):

| DN=c-d[ee] | SLEN=f-g-h-i[41] | ILEN=f-l-m-n[60] | INEN=f-w-x-y[z2] |

l = Integrated digital carrier unit (IDCU) number.

m = RT number.

n = RT line number of the first or only line in the ILEN range.

o = RT line number of the last line in the ILEN range.

p = Desired three-digit office code if the given SLEN or ILEN range spans multiple office codes and limitations discussed in the Purpose section do not exist.

q = Outpulse timing. Additional delay in increments of 200 milliseconds (ms) to allow the existing office to acknowledge receipt of outpulsed digits and verify that the line is idle. OT delay = 800 + (q*200). If no value is specified, a delay of 800 ms will be used. The valid range for q is 0 (default) to 63, inclusive. When testing analog lines from a crossbar or ESS™ office, the maximum value is recommended to allow detection of traffic busy lines.
r = Cut-through timing (CT). Additional delay in increments of 100 milliseconds to allow the existing office to complete its test connection following transition to low sleeve current. CT delay = 2000 + (r*100). If no value is specified, a delay of 2000 ms will be used. The valid range for r is 0 (default) to 63, inclusive.

s = Disconnect timing (DT). Additional guard timing delay in increments of 200 ms to allow release of trunk resources upon disconnect. DT delay = 1500 + (s*200). If no value is specified, a delay of 1500 ms will be used. The valid range for s is 0 (default) to 9, inclusive.

t = The device to which office to office output should be directed. If not specified, output will be directed to the input device. Output is always printed at the receive-only printer (ROP). For a complete list and explanation of valid device names, refer to the ECD/SG manual.

u = Apply printing priority to the corresponding output messages. A printing priority of 0 is the lowest and a printing priority of 6 is the highest. When the PP option is not used, the output priority defaults to 4 (MANUAL).

Note: Raising the priority of the output messages above 4 may impact the printing of other messages which have a lower priority. Specifying a printing priority of 3 (MINOR), 5 (MAJOR), or 6 (CRITICAL) will set the MCC status indicators and cause the alarms to ring. Using a priority below 3 may result in loss of OTO output, especially during heavy ROP traffic periods.

v = This is a "wild card" used for debugging and implementation of site-specific features. Contact technical support for specific values to assign. The default value is used for standard operation.

w = digital network unit (DNU) number.

x = RT number.

y = RT line number of the first or only line in the INEN range.

z = RT line number of the last line in the INEN range.

a1 = Numbering Plan Area or Area Code of the DN.

4. SYSTEM RESPONSE

PF = Printout follows. Valid value(s):

- REQxx The message is accepted and the OTO test program is activated. The request number is automatically assigned by the OTO test program. Test results will follow in the EX:OTO output message.

RL = Retry later. The request was denied; the office-to-office test program is not in an executable state.

5. REFERENCES

Input Message(s):

ABT:OTO
INH:BREVC
OP:LISTOTO
STP:LISTOTO
Output Message(s):

EX: OTO

Other Manual(s):

Where 'x' is the release specific version of the specified manual.

235-105-200   Precutover and Cutover Procedures
235-600-3xx   ECD/SG
EX:PAUSE

Software Release: 5E14 and later
Command Group: AM,CCS
Application: 5,3B
Type: Input

1. PURPOSE

To request to pause or suspend the diagnostic execution at a specified statement number within a diagnostic phase.

NOTE: To use this input message, first invoke the interactive diagnostics. For example: EX:a[,b];ph=c;

2. FORMAT

EX:PAUSE:a[,b],ST=e;

3. EXPLANATION OF MESSAGE

a  = Unit type and member number of the unit on which interactive diagnostics was started. Refer to the APP:MEM-NUM-UNIT appendix in the Appendixes section of the Input Messages manual for valid unit names and member numbers.

b  = Unit type and member number of the subunit beneath the unit name. Refer to the APP:MEM-NUM-CU appendix in the Appendixes section of the Input Messages manual for valid subunit names and member numbers.

c  = Executes the specified phase.

e  = Statement number that is the target of the action. This statement is not executed.

4. SYSTEM RESPONSE

PF  = Printout follows. Followed by the EX:PAUSE output message.

RL  = Retry later. The system is in an overload condition.

?I  = General syntax error followed by the parameter position and one of the following:
    - EXTRA KEYWORD = Duplicate or extraneous keywords were input.
    - INVALID KEYWORD = The keyword in the stated parameter position is not a valid keyword.
    - MISSING KEYWORD = A required keyword is missing from the input.

?D  = General syntax error in the data field followed by the parameter position and one of the following reasons:
    - EXTRA KEYWORD = Duplicate or extraneous keywords were input.
    - INVALID KEYWORD = The keyword in the stated parameter position is not a valid keyword.
    - MISSING DATA = Data required for the statement keyword was not found on the input line.
    - MISSING KEYWORD = A required keyword is missing from the input.
    - RANGE ERROR = Not a valid range for the statement parameter.

?E  = Input error of undetermined type.
5. REFERENCES

Input Message(s):

EX:CU
EX:DCI
EX:DFC
EX:DUIC
EX:HSDC
EX:IOP
EX:MHD
EX:MTC
EX:MTTYC
EX:SCSDC
EX:SDLIC
EX:STEP
EX:TTYC
STOP:DMQ
STP:DMQ

Output Message(s):

ANALY:TLPFILE
EX:PAUSE

Input Appendix(es):

APP:MEM–NUM–CU
APP:MEM–NUM–UNIT
EX:PMU

Software Release: 5E14 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Requests interactive diagnostics (exercises) of the precision measurement unit (PMU). This message is used primarily for manual troubleshooting.

Format 1 starts a diagnostic exercise program on the PMU.

Format 2 resets the diagnostic options and begins executing the previously activated diagnostic program from the current point of suspension until the specified number of segments has been performed.

Format 3 inverts the state (from running to suspended or vice versa) of a previously activated diagnostic program.

Format 4 executes a portion of a previously activated diagnostic program.

Format 5 transfers control from the current point of suspension to the beginning of the specified segment of a previously activated diagnostic program, ignoring interim test failures.

To stop this exercise, use the STP:PMU input message. The unit will remain out of service.

2. FORMAT

[1] EX:PMU=a-b-c,START[,GROW];
[2] EX:PMU=a-b-c[,UCL][,RAW][,SYNCH=h-i-j][,STEP=f[,TLP];
[3] EX:PMU=a-b-c;
[4] EX:PMU=a-b-c[,UCL][,RAW][,SYNCH=h-i-j][,RPT [=g],PH=k-l[,TLP];
[5] EX:PMU=a-b-c,PAUSE=m-n;

3. EXPLANATION OF MESSAGE

GROW = Allow access to growth equipment.
RAW = Print raw test failure data.
TLP = Print ordered pack list.
UCL = Execute unconditionally.
a = Switching module (SM) number.
b = Directly connected test unit number in the SM.
c = Circuit number.
f = The number of segments to be executed, beginning from the current point of suspension.
g = Number of times the exercise is to be repeated. Default=32,767.
h = The number of the phase that has statement ‘j’ and segment ‘i’ (SM units only).
i = The number of the segment that has statement ‘j’ (SM units only).
j = The number of the statement at the beginning of which a synchronizing pulse is to be generated (SM units only).
k = The number of the phase of the segment(s) to be executed.
l = The number of the segment or range of segments in phase ‘k’ to be executed.
m = The number of the phase at which suspension of diagnostic execution is desired.
n = The segment number at which suspension of diagnostic execution is desired.

4. SYSTEM RESPONSE

NG = No good. The request has been denied. The message form is valid, but the request conflicts with current status.

PF = Printout follows. The request has been accepted. Followed by the EX:PMU output message.

5. REFERENCES

Input Message(s):

STP : PMU

Output Message(s):

EX : PMU
EX:PPC

Software Release: 5E14 and later
Command Group: CM
Application: 5
Type: Input

1. PURPOSE

Requests that the pump peripheral controller (PPC) be exercised in an interactive mode. This message is used primarily for manual troubleshooting.

Format 1 activates the interactive diagnostic program.

Format 2 begins executing the previously activated diagnostic program from the current point of suspension until the specified number of segments has been performed. The number of segments is given by the STEP parameter.

Format 3 executes the requested phase and segment or range of segments of a previously activated diagnostic program.

Format 4 causes a previously activated diagnostic program to suspend immediately, rather than completing the previous message (valid after using either Format 2 or 3).

Format 5 resets the diagnostic options and resumes executing the previously activated diagnostic program from the current point of suspension. This format is used to restart the exercise after suspending it using Format 4.

Format 6 transfers control from the current point of suspension to the beginning of the specified phase and segment of a previously activated diagnostic program, ignoring interim test failures. When the requested phase and segment are reached, the exercise will pause.

Note 1: Use the STP:PPC message to terminate the exercise. Also, execute Format 1; first before attempting to use any of the other formats.

Note 2: This command is not applicable to offices having CM3 vintage communication modules.

2. FORMAT

[1] EX:PPC=a,START;
[2] EX:PPC=a[,UCL][,RAW],STEP=b[,TLP];
[3] EX:PPC=a[,UCL][,RAW][,RPT=c],PH=d-e[&f][,TLP];
[4] EX:PPC=a;
[5] EX:PPC=a[,UCL][,RAW][,RPT=c][,TLP];
[6] EX:PPC=a,PAUSE=g-h;

3. EXPLANATION OF MESSAGE

RAW  = Print raw test failure data.
TLP  = Print the ordered suspected pack list if a test fails.
UCL  = Print all test results unconditionally rather than just printing the first failing test.
a = PPC side.
b = The number of segments to be executed, beginning from the current point of suspension. Ignore all specified RPT options.
c = Number of times exercise is to be repeated (default is 32,767). Ignore if STEP option is specified.
d = The number of the phase to be executed.
e = The number of the segment in phase 'd' to be executed, or the lower limit in a range of segments.
f = Upper limit in range of segments to be executed in phase 'd'.
g = The phase number at which suspension of the diagnostic execution is desired.
h = The segment of phase 'g' at which suspension of the diagnostic execution is desired.

4. SYSTEM RESPONSE

NG = No good. The request has been denied. The message syntax is valid, but the request could not be processed.
PF = Printout follows. Followed by the EX:PPC output message.
RL = Retry later. The request cannot be executed now.

5. REFERENCES

Input Message(s):

<table>
<thead>
<tr>
<th>ABT:PPC</th>
</tr>
</thead>
<tbody>
<tr>
<td>DGN:PPC</td>
</tr>
<tr>
<td>STP:PPC</td>
</tr>
</tbody>
</table>

Input Appendix(es):

| APP:CM–IM–REASON |

Output Message(s):

| EX:PPC |

Other Manual(s):

| 235-105-210 | Routine Operations and Maintenance |
| 235-105-220 | Corrective Maintenance |
EX:PROTO

**Software Release:** 5E14 and later  
**Command Group:** SM  
**Application:** 5  
**Type:** Input

1. PURPOSE

Exercises the protocol (PROTO) circuit to determine whether it is in satisfactory working order. This message is used primarily for manual troubleshooting.

Format 1 starts a diagnostic exercise program on the PROTO. Format 2 resets the diagnostic options and begins executing the previously activated diagnostic program from the current point of suspension until the specified number of segments has been performed. Format 3 inverts the state (from running to suspended or vice versa) of a previously activated diagnostic program. Format 4 executes a portion of a previously activated diagnostic program. Format 5 transfers control from the current point of suspension to the beginning of the specified segment of a previously activated diagnostic program, ignoring interim test failures. To stop this exercise, use the STP:PROTO input message. The unit will remain out-of-service (OOS).

2. FORMAT

[1]  EX:PROTO=a-b-c,START[,GROW];
[2]  EX:PROTO=a-b-c[,RAW][,UCL][,SYNCH=f-g-h],STEP=d[,TLP];
[3]  EX:PROTO=a-b-c;
[4]  EX:PROTO=a-b-c[,RAW][,UCL][,RPT=e][,SYNCH=f-g-h][,PH=i-j][,TLP];
[5]  EX:PROTO=a-b-c,PAUSE=k-l;

3. EXPLANATION OF MESSAGE

- **GROW** = Allow access to growth equipment.
- **RAW** = Print data from raw data test failure.
- **TLP** = Print ordered pack list.
- **UCL** = Execute unconditionally.
- **a** = Switching module (SM) number.
- **b** = Unit number.
- **c** = Service group number.
- **d** = The number of segments to be executed, beginning from the current point of suspension.
- **e** = The number of times the exercise is to be repeated. Default is 32,767.
- **f** = The number of the phase that has statement ‘i’ and segment ‘h’ (SM units only).
- **g** = The number of the segment that has statement ‘i’ (SM units only).
- **h** = The number of the statement at the beginning of which a synchronous pulse is to be generated.
(SM units only).

\[ i \] = The number of the phase of the segment(s) to be executed.

\[ j \] = The segment or range of segments in phase \( 'j' \) to be executed.

\[ k \] = The number of the phase at which suspension of diagnostic execution is desired.

\[ l \] = The segment number at which suspension of diagnostic execution is desired.

4. SYSTEM RESPONSE

\[ \text{NG} \] = No good. The request has been denied. The message form is valid, but the request conflicts with current status.

\[ \text{PF} \] = Printout follows. The request was accepted. Followed by the EX:PROTO output message.

5. REFERENCES

Input Message(s):

\[ \text{STP:PROTO} \]

Output Message(s):

\[ \text{EX:PROTO} \]
**EX:PSUCOM-A**

**Software Release:** 5E14 - 5E15  
**Command Group:** SM  
**Application:** 5  
**Type:** Input

1. **PURPOSE**

Exercises (interactively diagnoses) a packet switch unit (PSU) common controller (COM).

Format 1 activates a diagnostic program on the PSU.

Format 2 executes a portion of a previously activated diagnostic program.

Format 3 resets the diagnostic options and begins executing the previously activated diagnostic program from the current point of suspension until the specified number of segments has been performed.

Format 4 inverts (toggles) the state (from running to suspended or vice versa) of a previously activated diagnostic program.

Format 5 transfers control from the current point of suspension to the beginning of the specified segment of a previously activated diagnostic program, ignoring interim test failures.

**NOTE:** To stop any of these exercises, use the STP:PSU input message.

2. **FORMAT**

1. \[EX:PSUCOM=a-b-c[-d],\text{START}[,\text{SUB}=j][,\text{GROW}];\]

2. \[EX:PSUCOM=a-b-c[-d],\text{PH}=e-f[,\text{RPT}=[k]][,\text{SYNCH}=l-m-n]. . .[,\text{RAW}][,\text{TLP}][,\text{UCL}];\]

3. \[EX:PSUCOM=a-b-c[-d],\text{STEP}=g[,\text{SYNCH}=l-m-n][,\text{RAW}][,\text{TLP}][,\text{UCL}];\]

4. \[EX:PSUCOM=a-b-c[-d];\]

5. \[EX:PSUCOM=a-b-c[-d],\text{PAUSE}=h-i;\]

3. **EXPLANATION OF MESSAGE**

- **GROW** = Allow access to growth equipment.
- **RAW** = Print data from raw data test failure.
- **TLP** = Print the ordered pack list.
- **UCL** = Unconditionally execute and print all test failures rather than stopping after the first test failure.
- **a** = Switching module (SM) number.
- **b** = PSU number.
c = Service group number.

d = Protocol handler number.

e = The number phase (PH) that has the segments to be executed.

f = The number segment or range of segments in phase ‘e’ to be executed.

g = The number of segments to be executed, STEP, beginning from the current point of suspension.

h = The number phase at which suspension, PAUSE, of diagnostic execution is desired.

i = The segment number at which suspension of diagnostic execution is desired.

j = The PSUCOM shelf to be diagnosed (0-5). If SUB is not specified, diagnostics will be performed on all shelves.

k = The number of times the exercise is to be repeated. If ‘k’ is not specified, the test will be repeated 32,767 times.

l = The number of the phase that has statement ‘n’ and segment ‘m’.

m = The number of the segment that has statement ‘n’.

n = The number of the statement at the beginning of which a synchronizing pulse is to be generated.

4. SYSTEM RESPONSE

NG = No good. The message form is valid, but the request conflicts with current status.

PF = Printout follows. Followed by the EX:PSUCOM output message.

RL = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

Input Message(s):

STP:PSUCOM

Output Message(s):

EX:PSUCOM

MCC Display Page(s):

118x PSU SHELF
1186 PSU NETWORK
EX:PSUCOM-B

Software Release: 5E16(1) and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Exercises (interactively diagnoses) a packet switch unit (PSU) common controller (COM).

Format 1 activates a diagnostic program on the PSU.

Format 2 executes a portion of a previously activated diagnostic program.

Format 3 resets the diagnostic options and begins executing the previously activated diagnostic program from the current point of suspension until the specified number of segments has been performed.

Format 4 inverts (toggles) the state (from running to suspended or vice versa) of a previously activated diagnostic program.

Format 5 transfers control from the current point of suspension to the beginning of the specified segment of a previously activated diagnostic program, ignoring interim test failures.

To stop any of these exercises, use the STP:PSU input message.

2. FORMAT

[1] EX:PSUCOM=a-b-c[-d],START[,SUB=j][,GROW];

[2] EX:PSUCOM=a-b-c[-d],PH=e-f[,RPT[=k]][,SYNCH=l-m-n][,RAW][,TLP][,UCL];

[3] EX:PSUCOM=a-b-c[-d],STEP=g[,SYNCH=l-m-n][,RAW][,TLP][,UCL];

[4] EX:PSUCOM=a-b-c[-d];

[5] EX:PSUCOM=a-b-c[-d],PAUSE=h-i;

3. EXPLANATION OF MESSAGE

GROW = Allow access to growth equipment.
RAW = Print data from raw data test failure.
TLP = Print the ordered pack list.
UCL = Unconditionally execute and print all test failures rather than stopping after the first test failure.
a = Switching module (SM) number.
b = PSU number.
c = Service group number.
d = Protocol handler number.
e = The number phase that has the segments to be executed.
f = The number segment or range of segments in phase ‘e’ to be executed.
g = The number of segments to be executed, STEP, beginning from the current point of suspension.
h = The number phase at which suspension, PAUSE, of diagnostic execution is desired.
i = The segment number at which suspension of diagnostic execution is desired.
j = The PSUCOM shelf to be diagnosed (0-5). If SUB is not specified, diagnostics will be performed on all shelves.
k = The number of times the exercise is to be repeated. If ‘k’ is not specified, the test will be repeated 32,767 times.
l = The number of the phase that has statement ‘n’ and segment ‘m’.
m = The number of the segment that has statement ‘n’.
n = The number of the statement at the beginning of which a synchronizing pulse is to be generated.

4. SYSTEM RESPONSE

NG = No good. The message form is valid, but the request conflicts with current status.
PF = Printout follows. Followed by the EX:PSUCOM output message.
RL = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

Input Message(s):

STP:PSUCOM

Output Message(s):

EX:PSUCOM

MCC Display Page(s):
118x,y PSU SHELF (where y=PSU number)
1186,y PSU NETWORK (where y=PSU number)
1. PURPOSE

Exercises (interactively diagnoses) a packet switch unit (PSU) protocol handler (PH).

Format 1 activates a diagnostic program on the PSU.

Format 2 executes a portion of a previously activated diagnostic program.

Format 3 resets the diagnostic options and begins executing the previously activated diagnostic program from the current point of suspension until the specified number of segments has been performed.

Format 4 inverts (toggles) the state (from running to suspended or vice versa) of a previously activated diagnostic program.

Format 5 transfers control from the current point of suspension to the beginning of the specified segment of a previously activated diagnostic program, ignoring interim test failures.

NOTE: To stop any of these exercises, use the STP:PSU input message.

2. FORMAT

[1] EX:PSUPH=a-b-c[-d],START[,SUB=k][,GROW];

[2] EX:PSUPH=a-b-c[-d],PH=e-f[,RPT[=k]][,SYNCH=l-m-n]... . . .[,RAW][,TLP][,UCL];

[3] EX:PSUPH=a-b-c[-d],STEP=g[,SYNCH=l-m-n][,RAW][,TLP][,UCL];

[4] EX:PSUPH=a-b-c[-d];

[5] EX:PSUPH=a-b-c[-d],PAUSE=h-i;

3. EXPLANATION OF MESSAGE

GROW = Allow access to growth equipment.

RAW = Print data from raw data test failure.

TLP = Print the ordered pack list.

UCL = Unconditionally execute and print all test failures rather than stopping after the first test failure.

a = Switching module (SM) number.

b = PSU number.
c = Shelf number.
d = Protocol handler number.
e = The number phase (PH) that has the segments to be executed.
f = The number segment or range of segments in phase ‘e’ to be executed.
g = The number of segments to be executed, STEP, beginning from the current point of suspension.
h = The number phase at which suspension, PAUSE, of diagnostic execution is desired.
i = The segment number at which suspension of diagnostic execution is desired.
j = The PSUCOM shelf to be diagnosed (0-5). If SUB is not specified, diagnostics will be performed on all shelves.
k = The number of times the exercise is to be repeated. If ‘k’ is not specified, the test will be repeated 32,767 times.
l = The number of the phase that has statement ‘n’ and segment ‘m’.
m = The number of the segment that has statement ‘n’.
n = The number of the statement at the beginning of which a synchronizing pulse is to be generated.

4. SYSTEM RESPONSE

NG = No good. The message form is valid, but the request conflicts with current status.
PF = Printout follows. Followed by the EX:PSUPH output message.
RL = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

Input Message(s):

STP:PSUPH

Output Message(s):

EX:PSUPH

MCC Display Page(s):
118x PSU SHELF
1186 PSU NETWORK
EX:PSUPH-B

Software Release: 5E16(1) and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Exercises (interactively diagnoses) a packet switch unit (PSU) protocol handler (PH).

Format 1 activates a diagnostic program on the PSU.

Format 2 executes a portion of a previously activated diagnostic program.

Format 3 resets the diagnostic options and begins executing the previously activated diagnostic program from the current point of suspension until the specified number of segments has been performed.

Format 4 inverts (toggles) the state (from running to suspended or vice versa) of a previously activated diagnostic program.

Format 5 transfers control from the current point of suspension to the beginning of the specified segment of a previously activated diagnostic program, ignoring interim test failures.

To stop any of these exercises, use the STP:PSU input message.

2. FORMAT

[1] EX:PSUPH=a-b-c[-d],START[,SUB=j][,GROW];

[2] EX:PSUPH=a-b-c[-d],PH=e-f[,RPT[=k]][,SYNCH=l-m-n][,RAW][,TLP][,UCL];

[3] EX:PSUPH=a-b-c[-d],STEP=g[,SYNCH=l-m-n][,RAW][,TLP][,UCL];

[4] EX:PSUPH=a-b-c[-d];

[5] EX:PSUPH=a-b-c[-d],PAUSE=h-i;

3. EXPLANATION OF MESSAGE

GROW = Allow access to growth equipment.

RAW = Print data from raw data test failure.

TLP = Print the ordered pack list.

UCL = Unconditionally execute and print all test failures rather than stopping after the first test failure.

a = Switching module (SM) number.

b = PSU number.
c = Shelf number.
d = Protocol handler number.
e = The number phase that has the segments to be executed.
f = The number segment or range of segments in phase 'e' to be executed.
g = The number of segments to be executed, STEP, beginning from the current point of suspension.
h = The number phase at which suspension, PAUSE, of diagnostic execution is desired.
i = The segment number at which suspension of diagnostic execution is desired.
j = The PSUCOM shelf to be diagnosed (0-5). If SUB is not specified, diagnostics will be performed on all shelves.
k = The number of times the exercise is to be repeated. If 'k' is not specified, the test will be repeated 32,767 times.
l = The number of the phase that has statement 'n' and segment 'm'.
m = The number of the segment that has statement 'n'.
n = The number of the statement at the beginning of which a synchronizing pulse is to be generated.

4. SYSTEM RESPONSE

NG = No good. The message form is valid, but the request conflicts with current status.
PF = Printout follows. Followed by the EX:PSUPH output message.
RL = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

Input Message(s):

STP:PSUPH

Output Message(s):

EX:PSUPH

MCC Display Page(s):
118x,y PSU SHELF (where y=PSU number)
1186,y PSU NETWORK (where y=PSU number)
EX:QGP

Software Release: 5E14 and later
Command Group: CM
Application: 5
Type: Input

1. PURPOSE

Requests interactive diagnosis of a quad-link packet switch (QLPS) gateway processor (QGP). This message is used primarily for manual troubleshooting. Completion of this input message leaves the unit in the out-of-service (OOS) state.

Format 1 activates a diagnostic program on the QGP.

Format 2 resets the diagnostics options and begins executing the previously activated diagnostic program from the current point of suspension until the specified number of segments has been performed.

Format 3 inverts (toggles) the state of a previously activated diagnostic program from "running" to "suspended" or vice versa.

Format 4 transfers control from the current point of suspension to the beginning of the specified segment of a previously activated diagnostic program, ignoring interim test failures. It then executes the specified segment or segment range according to the specified options.

Format 5 transfers control from the current point of suspension to the beginning of the specified segment of a previously activated diagnostic program, ignoring interim test failures.

Note 1: If the unit is not OOS, the system will first remove the unit conditionally.

Note 2: To stop any of these exercises, use the STP:QGP input message.

Note 3: This command is not applicable to offices having CM3 vintage communication modules.

2. FORMAT

[1] EX:QGP=a-b,START[,GROW];
[2] EX:QGP=a-b,STEP=c[,UCL][,RAW][,TLP];
[3] EX:QGP=a-b;
[4] EX:QGP=a-b,PH=d-e&f[,UCL][,RAW][,TLP][,RPT[=g]];
[5] EX:QGP=a-b,PAUSE=h-i;

3. EXPLANATION OF MESSAGE

GROW = Interactively diagnose a QGP in the GROW state. If the QGP is GROW, this option must be input to perform the diagnostic.

RAW = Print data from raw data test failure.

TLP = Executes the trouble location procedure at the conclusion of the diagnostic. This process generates a list of suspected faulty equipment.
UCL = Execute diagnostic unconditionally.

a = Message switch side. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

b = QGP number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

c = Number of segments to be executed, beginning from the current point of suspension.

d = The number of the phase (PH) that has the segment(s) to be executed.

e = Segment number, or the lower limit of a range of segment numbers in phase 'd' to be executed.

f = Upper limit of a range of segment numbers in phase 'd' to be executed.

g = Number of times the diagnostic segment(s) are to be repeated.

h = The number of the phase at which suspension of diagnostic execution is desired.

i = The segment number at which suspension of diagnostic execution is desired.

4. SYSTEM RESPONSE

NG = No good. The request has been denied. The message syntax is valid but the request could not be processed. Refer to the APP:CM-IM-REASON appendix in the Appendixes section of the Input Messages manual for a list of possible reasons for denying the request.

PF = Printout follows. Followed by the EX:QGP output message.

RL = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

Input Message(s):

ABT: QGP
OP: DMQ–CM–SM
STP: QGP

Output Message(s):

EX: QGP

Input Appendix(es):

APP: CM–IM–REASON
APP: RANGES

MCC Display Page(s):
1241/1251 (MSGS COMMUNITIES 0-1, 8-9)
1380/1381 (QLPS NETWORK 0/1 STATUS)
EX:QLPS-A

Software Release: 5E14 only
Command Group: CM
Application: 5
Type: Input

1. PURPOSE

Requests interactive diagnosis of a quad-link packet switch (QLPS). This message is used primarily for manual troubleshooting. Completion of this input message leaves the unit in the out-of-service (OOS) state.

NOTE: If the unit is not OOS, the system will first remove the unit conditionally.

Format 1 activates a diagnostic program on the QLPS.

Format 2 resets the diagnostics options and begins executing the previously activated diagnostic program from the current point of suspension until the specified number of segments has been performed.

Format 3 inverts (toggles) the state of a previously activated diagnostic program from "running" to "suspended" or vice versa.

Format 4 transfers control from the current point of suspension to the beginning of the specified segment of a previously activated diagnostic program, ignoring interim test failures. It then executes the specified segment or segment range according to the specified options.

Format 5 transfers control from the current point of suspension to the beginning of the specified segment of a previously activated diagnostic program, ignoring interim test failures.

NOTE: To stop any of these exercises, use the STP:QLPS input message.

2. FORMAT

[1] EX:QLPS=a-b,START[,GROW][,HELPER=c];
[2] EX:QLPS=a-b,STEP=d[,UCL][,RAW][,TLP];
[3] EX:QLPS=a-b;
[4] EX:QLPS=a-b,PH=e-f&&g[,UCL][,RAW][,TLP][,RPT[=h]];
[5] EX:QLPS=a-b,PAUSE=i-j;

3. EXPLANATION OF MESSAGE

GROW = Interactively diagnose a QLPS in the GROW state. If the QLPS is GROW, this option must be input to perform the diagnostic. Also allows access to QGPs in the GROW state that are connected to the QLPS using QGLs.

TLP = Print the ordered pack list.

RAW = Print data from raw data test failure.

UCL = Execute tests unconditionally and print test failures rather than stopping after the first test failure.

a = Office network timing and control (ONTC) side number.
b = QLPS network number.
c = Foundation peripheral controller (FPC) side number to be used as a 'helper' unit for the diagnostic. If this option is not input the standby FPC will be used.
d = Number of segments to be executed, beginning from the current point of suspension.
e = The number of the phase (PH) that has the segment(s) to be executed.
f = Segment number, or the lower limit of a range of segment numbers in phase 'e' to be executed.
g = Upper limit of a range of segment numbers in phase 'e' to be executed.
h = Number of times the diagnostic segment(s) are to be repeated. Maximum and default is 32767 times.
i = The number of the phase at which suspension of diagnostic execution is desired.
j = The segment number at which suspension of diagnostic execution is desired.

4. SYSTEM RESPONSE

NG = No good. The request has been denied. The message syntax is valid but the request could not be processed. Refer to the APP:CM-IM-REASON appendix in the Appendixes section of the Input Messages manual for a list of possible reasons for denying the request.

PF = Printout follows. Followed by the EX:QLPS output message.

RL = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

Input Message(s):

ABT:QLPS
OP:DMQ–CM–SM
STP:QLPS

Output Message(s):

EX:QLPS

Input Appendix(es):

APP:CM–IM–REASON
APP:RANGES

MCC Display Page(s):

1209 (ONT C 0 & 1)
1380/1381 (QLPS NETWORK 0/1 STATUS)
EX:QLPS-B

Software Release: 5E15 and later
Command Group: CM
Application: 5
Type: Input

1. PURPOSE

Requests interactive diagnosis of a quad-link packet switch (QLPS). This message is used primarily for manual troubleshooting. Completion of this input message leaves the unit in the out-of-service (OOS) state. This command is not applicable in Communication Module 3 (CM3) office.

Note: If the unit is not OOS, the system will first remove the unit conditionally.

Format 1 activates a diagnostic program on the QLPS.

Format 2 resets the diagnostics options and begins executing the previously activated diagnostic program from the current point of suspension until the specified number of segments has been performed.

Format 3 inverts (toggles) the state of a previously activated diagnostic program from "running" to "suspended" or vice versa.

Format 4 transfers control from the current point of suspension to the beginning of the specified segment of a previously activated diagnostic program, ignoring interim test failures. It then executes the specified segment or segment range according to the specified options.

Format 5 transfers control from the current point of suspension to the beginning of the specified segment of a previously activated diagnostic program, ignoring interim test failures.

Note: To stop any of these exercises, use the STP:QLPS input message.

2. FORMAT

[1] EX:QLPS=a-b,START[,GROW][,HELPER=c];

[2] EX:QLPS=a-b,STEP=d[,UCL][,RAW][,TLP];

[3] EX:QLPS=a-b;

[4] EX:QLPS=a-b,PH=e-f&&g[,UCL][,RAW][,TLP][,RPT[=h]];

[5] EX:QLPS=a-b,PAUSE=i-j;

3. EXPLANATION OF MESSAGE

GROW = Interactively diagnose a QLPS in the GROW state. If the QLPS is GROW, this option must be input to perform the diagnostic. Also allows access to QGPs in the GROW state that are connected
to the QLPS using QGLs.

**TLP**
- Print the ordered pack list.

**RAW**
- Print data from raw data test failure.

**UCL**
- Execute tests unconditionally and print test failures rather than stopping after the first test failure.

- Office network timing and control (ONTC) side number.

- QLPS network number.

- Foundation peripheral controller (FPC) side number to be used as a 'helper' unit for the diagnostic. If this option is not input the standby FPC will be used.

- Number of segments to be executed, beginning from the current point of suspension.

- The number of the phase (PH) that has the segment(s) to be executed.

- Segment number, or the lower limit of a range of segment numbers in phase 'e' to be executed.

- Upper limit of a range of segment numbers in phase 'e' to be executed.

- Number of times the diagnostic segment(s) are to be repeated. Maximum and default is 32767 times.

- The number of the phase at which suspension of diagnostic execution is desired.

- The segment number at which suspension of diagnostic execution is desired.

### 4. SYSTEM RESPONSE

**NG**
- No good. The request has been denied. The message syntax is valid but the request could not be processed. Refer to the APP:CM-IM-REASON appendix in the Appendixes section of the Input Messages manual for a list of possible reasons for denying the request.

**PF**
- Printout follows. Followed by the EX:QLPS output message.

**RL**
- Retry later. The request cannot be executed now due to unavailable system resources.

### 5. REFERENCES

**Input Message(s):**

```
ABT:QLPS
OP:DMQ-CM-SM
STP:QLPS
```

**Output Message(s):**

```
EX:QLPS
```
Input Appendix(es):

APP: CM-IM-REASON

MCC Display Page(s):

1209 (ONT 0 & 1)
1380/1381 (QLPS NETWORK 0/1 STATUS)
EX:RAF

Software Release: 5E14 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Interactively diagnoses (exercises) the recorded announcement function (RAF) unit. This message is used primarily for manual troubleshooting. Exercise is only performed once unless the RPT option is specified.

Format 1 activates a diagnostic program on the RAF unit.

Format 2 executes a portion of a previously activated diagnostic program.

Format 3 inverts the state (from running to suspended or vice versa) of a previously activated diagnostic program.

Format 4 resets the diagnostic option and begins executing the previously activated diagnostic program from the current point of suspension until the specified number of segments has been performed.

Format 5 transfers control from the current point of suspension to the beginning of the specified segment of a previously activated diagnostic program, ignoring interim test failures.

To stop this exercise, use the STP:RAF input message. The unit will remain out-of-service (OOS).

2. FORMAT

[1] EX:RAF=a-b,START[,GROWTH];
[2] EX:RAF=a-b,PH=h-i[,UCL][,RAW][,SYNCH=e-f-g][,RPT [=d]][,TLP];
[3] EX:RAF=a-b;
[4] EX:RAF=a-b,STEP=c[,UCL][,RAW][,SYNCH=e-f-g][,TLP];
[5] EX:RAF=a-b,PAUSE=j-k;

3. EXPLANATION OF MESSAGE

GROWTH = Allow access to growth equipment.
RAW = Print raw test failure data.
TLP = Print the order pack list.
UCL = Execute unconditionally. DGN will continue past all non-fatal failures.
a = Switching module (SM) number.
b = RAF unit number.
c = The number of segments to be executed, beginning from the current point of suspension.
d = Number of times the exercise is to be repeated (default is 32,767).
e = The phase that has statement 'g' and segment 'e' (SM units only).
The segment that has statement ‘g’ (SM units only).

The statement at the beginning of which a synchronizing pulse is to be generated (SM units only).

The phase of the segment(s) to be executed.

The segment or range of segments in phase ‘h’ to be executed.

The phase at which suspension of diagnostic execution is desired.

The segment number at which suspension of diagnostic execution is desired.

4. SYSTEM RESPONSE

NG = No good. The request has been denied because it conflicts with current equipment status. May also include:
   - SM DOES NOT EXIST = The requested SM does not exist in the system.
   - SM UNEQUIPPED = The SM specified in the request is unequipped.
   - UNIT DOES NOT EXIST = The requested unit does not exist in the system.

PF = Printout follows. The request has been accepted. Followed by the EX:RAF output message.

RL = Retry later. The request cannot be executed now due to unavailable system resources. The message may be entered again later.

5. REFERENCES

Input Message(s):

STP:RAF

Output Message(s):

EX:RAF
EX:RAU

**Software Release:** 5E14 and later  
**Command Group:** SM  
**Application:** 5  
**Type:** Input

1. PURPOSE

Performs maintenance exercises on the remote switching module (RSM) alarm (RAU) circuit. This message is used for manual troubleshooting.

Format 1 starts a diagnostic exercise program on the RAU.

Format 2 resets the diagnostic options and begins executing the previously activated diagnostic from the current point of suspension until the specified number of segments have been run.

Format 3 inverts the state of a previously activated diagnostic from running to suspended or vice versa.

Format 4 executes a portion of a previously activated diagnostic.

Format 5 transfers control from the current point of suspension to the beginning of the specified segment of a previously activated diagnostic, ignoring interim test failures.

To stop this exercise, use the STP:RAU input message. The circuit will remain out of service.

2. FORMAT

```
[1]  EX:RAU=a,START[,GROW];
[2]  EX:RAU=a[,UCL][,RAW][,SYNCH=d-e-f][,STEP=b[,TLP]);
[3]  EX:RAU=a;
[4]  EX:RAU=a[,UCL][,RAW][,SYNCH=d-e-f][,RPT[=c]][,PH=g-h[,TLP]);
[5]  EX:RAU=a,PAUSE=i-j;
```

3. EXPLANATION OF MESSAGE

- **GROW** = Allow access to growth equipment.
- **RAW** = Print raw test failure data.
- **TLP** = Print ordered circuit pack list.
- **UCL** = Execute unconditionally.
- **a** = Switching module (SM) number.
- **b** = The number of segments to be executed, beginning from the current point of suspension.
- **c** = The number of times the exercise is to be repeated. Default is 32,767.
- **d** = Number of phase that has statement 'e' and segment 'f'.
- **e** = Segment in phase 'd' that has statement 'f'.
f = Statement in segment 'e' of phase 'd'; at the beginning of this statement a synchronizing pulse is to be generated.

g = Phase that has the segment(s) to be executed.

h = Number of the segment or range of segments in phase 'g' to be executed.

i = Number of the phase in which suspension of diagnostic execution is desired.

j = Segment number at which suspension of diagnostic execution is desired.

4. SYSTEM RESPONSE

NG = No good. Request denied because of a conflict with current status.

PF = Printout follows. Followed by the EX:RAU output message.

5. REFERENCES

Input Message(s):

STP:RAU

Output Message(s):

EX:RAU
EX:RCDDP

Software Release: 5E14 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE
Requests that an operation be performed or a status read on a remote common data and control (COMDAC) distribute point. This input message is used for manual trouble-shooting.

2. FORMAT

EX:RCDDP=a-b-c,d;

3. EXPLANATION OF MESSAGE

a  = Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

b  = Remote access interface unit (RAIU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

c  = Distribute point number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

d  = The operation to be performed. Valid value(s):
   CLOSE
   OPEN
   STATUS

4. SYSTEM RESPONSE

PF  = Printout follows. The request has been completed. Followed by the EX:RCDDP output message.

5. REFERENCES

Output Message(s):

EX:RCDDP

Input Appendix(es):

APP: RANGES
EX:RCLK

**Software Release:** 5E14 and later  
**Command Group:** SM  
**Application:** 5  
**Type:** Input

1. PURPOSE

Requests that maintenance exercises be performed on the remote clock (RCLK). This message will exercise the following circuits:
- Remote clock (RCLK)
- Remote clock cross couple (RCXC)
- Remote clock oscillator (RCOSC)
- Remote clock oscillator cross couple (RCOXC)
- All the equipped remote clock references (RCREFs)

Format 1 activates a diagnostic on the RCLK.

Format 2 executes a portion of a previously activated diagnostic.

Format 3 resets the diagnostic options and begins executing the previously activated diagnostic from the current point of suspension until the specified number of segments have been run.

Format 4 inverts the state, from running to suspended or vice versa, of a previously activated diagnostic.

Format 5 transfers control from the current point of suspension to the beginning of the specified segment of a previously activated diagnostic, ignoring interim test failures.

**NOTE:** To stop this exercise, use the STP:RCLK input message. The STP:RCLK message will always leave the circuit out-of-service.

2. FORMAT

1. EX:RCLK=a-b,START[,GROW];
2. EX:RCLK=a-b[,UCL][,RAW][,SYNCH=c-d-e][,RPT=[f]],PH=g-h[,TLP];
3. EX:RCLK=a-b[,UCL][,RAW][,SYNCH=c-d-e],STEP=i[,TLP];
4. EX:RCLK=a-b;
5. EX:RCLK=a-b,PAUSE=j-k;

3. EXPLANATION OF MESSAGE

<table>
<thead>
<tr>
<th>GROW</th>
<th>Allow access to growth equipment.</th>
</tr>
</thead>
<tbody>
<tr>
<td>RAW</td>
<td>Print raw test failure data.</td>
</tr>
<tr>
<td>TLP</td>
<td>Print ordered circuit pack list.</td>
</tr>
<tr>
<td>UCL</td>
<td>Unconditionally execute and print all test failures. Diagnostic will continue past all non-fatal errors.</td>
</tr>
<tr>
<td>a</td>
<td>Switching module (SM) number.</td>
</tr>
</tbody>
</table>
b  = RCLK side.
cde = Generate a synchronizing pulse at the beginning of statement 'c' in segment 'd' of phase 'e'.
f  = Number of times the exercises to be repeated. Default is 32767.
gh = Execute the specified segments of the phase, where:
        g  = The number of the phase.
        h  = Segment or range of segments in phase 'g' to be executed.
i  = Number of segments to execute, beginning from the current point of suspension.
jk = Phase and segment number at which to suspend the diagnostic.

4. SYSTEM RESPONSE

NG = No good. The request has been denied because it conflicts with current equipment status. May also include:
    - NOT STARTED UNIT IN GROWTH STATE
    - SM DOES NOT EXIST = The SM specified does not exist in the system.
    - SM UNEQUIPPED = The SM specified is unequipped.
    - UNIT DOES NOT EXIST = The requested unit does not exist in the system.

PF = Printout follows. Followed by the EX:RCLK output message.

RL = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

Input Message(s):

STP:RCLK

Output Message(s):

EX:RCLK

MCC Display Page(s):

RSM RCU
EX:RDFI

Software Release: 5E14 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Performs maintenance exercises on the remote switching module (RSM) digital facilities interface (RDFI) circuit. This message is used for manual troubleshooting.

Format 1 starts a diagnostic exercise program on the RDFI.

Format 2 resets the diagnostic options and begins executing the previously activated diagnostic from the current point of suspension until the specified number of segments have been run.

Format 3 inverts the state of a previously activated diagnostic from running to suspended or vice versa.

Format 4 executes a portion of a previously activated diagnostic.

Format 5 transfers control from the current point of suspension to the beginning of the specified segment of a previously activated diagnostic, ignoring interim test failures.

To stop this exercise, use the STP:RDFI input message. The circuit will remain out-of-service (OOS).

2. FORMAT

[1] EX:RDFI=a-b-c,START[,GROW];
[2] EX:RDFI=a-b-c[,UCL][,RAW][,SYNCH=f-g-h],STEP=d[,TLP];
[3] EX:RDFI=a-b-c;
[4] EX:RDFI=a-b-c[,UCL][,RAW][,SYNCH=f-g-h][,RPT [=e]],PH=i-j[,TLP];
[5] EX:RDFI=a-b-c,PAUSE=k-l;

3. EXPLANATION OF MESSAGE

GROW = Allow access to growth equipment.
RAW = Print raw test failure data.
TLP = Print ordered circuit pack list.
UCL = Execute unconditionally.
a = Switching module (SM) number.
b = Digital line and trunk unit number.
c = RDFI number.
d = The number of segments to be executed, beginning from the current point of suspension.
e = Number of times the exercise is to be repeated. Default is 32,767.
\( f \) = Number of the phase that has statement 'h' and segment 'g'.

\( g \) = Number of the segment in phase 'f' that has statement 'h'.

\( h \) = Number of the statement in segment 'g' of phase 'f'; at the beginning of this statement a synchronizing pulse is to be generated.

\( i \) = Number of the phase that has the segment(s) to be executed.

\( j \) = Number of the segment or range of segments in phase 'i' to be executed.

\( k \) = Number of the phase in which suspension of diagnostic execution is desired.

\( l \) = Segment number at which suspension of diagnostic execution is desired.

4. SYSTEM RESPONSE

NG = No good. Request denied because of a conflict with current status.

PF = Printout follows. Followed by the EX:RDFI output message.

5. REFERENCES

Input Message(s):

\texttt{STP:RDFI}

Output Message(s):

\texttt{EX:RDFI}
EX:RLI

Software Release: 5E14 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Performs maintenance exercises on the remote switching module (RSM) remote link interface (RLI) circuit. This message is used for manual troubleshooting.

Format 1 starts a diagnostic exercise program on the RLI.

Format 2 resets the diagnostic options and begins executing the previously activated diagnostic from the current point of suspension until the specified NUMBER of segments has been run.

Format 3 inverts the state of a previously activated diagnostic from running to suspended or vice versa.

Format 4 executes a portion of a previously activated diagnostic.

Format 5 transfers control from the current point of suspension to the beginning of the specified segment of a previously activated diagnostic, ignoring interim test failures.

To stop this exercise, use the STP:RLI input message. The circuit will remain out-of-service (OOS).

2. FORMAT

[1] EX:RLI=a-b,START[,GROW];
[2] EX:RLI=a-b[,UCL][,RAW][,SYNCH=e-f-g],STEP=c[,TLP];
[3] EX:RLI=a-b;
[4] EX:RLI=a-b[,UCL][,RAW][,SYNCH=e-f-g][,RPT[=d]],PH=h-i[,TLP];
[5] EX:RLI=a-b,PAUSE=j-k;

3. EXPLANATION OF MESSAGE

UCL = Execute unconditionally.
RAW = Print raw test failure data.
GROW = Allow access to growth equipment.
TLP = Print ordered circuit pack list.
a = Switching module (SM) number.
b = RLI number.
c = The number of segments to be executed, beginning from the current point of suspension.
d = Number of times the operation is to be repeated. Default is 32,767.
e = Number of the Phase that has statement 'g' and segment 'f'.

\( f \) = Number of the segment in phase 'e' that has statement 'g'.

\( g \) = Number of the statement in segment 'e' of phase 'e'; at the beginning of this statement a synchronizing pulse is to be generated.

\( h \) = Number of the phase that has the segment(s) to be executed.

\( i \) = Number of the Segment or range of segments in phase 'j' to be executed.

\( j \) = Number of the phase in which suspension of diagnostic execution is desired.

\( k \) = Segment number at which suspension of diagnostic execution is desired.

4. SYSTEM RESPONSE

NG = No good. Request denied because of a conflict with current status.

PF = Printout follows. Followed by the EX:RLI output message.

5. REFERENCES

Input Message(s):

STP:RLI

Output Message(s):

EX:RLI
EX:RPCN

Software Release: 5E14 and later
Command Group: CCS
Application: 5
Type: Input

1. PURPOSE


Four sequential system actions are performed in response to this input message.

A  The RPCN is removed from service following the rules for the RMV:RPCN input message.
B  If the resultant RPCN major state is out-of-service (OOS), growth (GROW), offline (OFL), or unavailable (UNAV), an attempt is made to isolate the RPCN. For other major states the diagnostic is aborted by the diagnostic monitor (DIAMON).
C  The specified diagnostic phases are run.
D  If the RPCN was in the active ring before the start of the diagnostics and was successfully isolated (in 2 above), then at the conclusion of the diagnostic execution an attempt is made to include the RPCN back into the active ring. Otherwise the node is left in its original ring configuration state. The RPCN remains in the OOS, GROW, OFL, or UNAV state.

2. FORMAT

EX:RPCNa=0:PH={b|b-c}[,d];

3. EXPLANATION OF MESSAGE

a  = Ring node (RN) group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
b  = Single phase to be run or first phase of the range of phases to be run.
c  = Last phase of the range of phases to be run.

NOTE: The phase or phases will not be executed until subsequent input messages from the EX:LOOP, EX:PAUSE, EX:STEP, and EX:STOP input messages are input.

d  = Helper unit to be used with this diagnostic request.

4. SYSTEM RESPONSE

PF  = Printout follows.

5. REFERENCES

Input Message(s):

DGN:RPCN
EX: LOOP
EX: PAUSE
EX: STEP
EX: STOP
RMV: RPCN

Output Message(s):

ANALY: TLPFILE
DGN: RPCN
EX: RPCN

Input Appendix(es):

APP: RANGES
EX:RRCLK

**Software Release:** 5E14 and later  
**Command Group:** SM  
**Application:** 5  
**Type:** Input

1. **PURPOSE**

Exercises a remote integrated services line unit (RISLU) remote clock circuit pack (RRCLK). This message is used primarily for manual troubleshooting.

Format 1; activates the interactive diagnostic on the RRCLK.

Format 2; executes a portion of a previously activated diagnostic.

Format 3; resets the diagnostics options and begins executing the previously activated diagnostic program from the current point of suspension until the specified number of segments (STEP parameter) has been performed.

Format 4; inverts the state of a previously activated diagnostic from running to suspended or vice versa. This message removes all previous options set.

Format 5; transfers control from the current point of suspension to the beginning of the specified segment of a previously activated diagnostic, ignoring interim test failures. When the requested phase and segment are reached, the exercise will pause.

**NOTE:** To stop any of these exercises, use the STP:RRCLK input message. The unit will remain out of service (OOS).

2. **FORMAT**

[1] EX:RRCLK=a-b-c,START[,GROW];

[2] EX:RRCLK=a-b-c,PH=i[-j&k][,UCL][,RAW][,RPT [e]][,TLP];

[3] EX:RRCLK=a-b-c,STEP=d[,UCL][,RAW][,TLP];

[4] EX:RRCLK=a-b-c;

[5] EX:RRCLK=a-b-c,PAUSE=l-m;

3. **EXPLANATION OF MESSAGE**

- **GROW** = Allow access to growth equipment.
- **RAW** = Print raw test failure data.
- **TLP** = Print ordered circuit pack list.
- **UCL** = Execute unconditionally. Diagnostic will continue past all nonfatal errors.
- **a** = Switching module (SM) number.
- **b** = RISLU number (0-7).
- **c** = RRCLK side (0 or 1).
d = The number of segments (STEP) to be executed, beginning from the current point of suspension.

e = Number of times the test is to be repeated. If 'e' is not specified then the test repeats 32,767 times.

i = The number of the phase (PH) to be executed.

j = The first segment in phase 'i' to be executed.

k = Upper limit of a range of segments in phase 'i' to be executed.

l = The phase at which to suspend (PAUSE) the diagnostic.

m = The segment at which to suspend the diagnostic.

4. SYSTEM RESPONSE

NG = No good.
   - NG-CONFLICT WITH UNIT STATE
   - NG-SM DOES NOT EXIST
   - NG-SM UNEQUIPPED
   - NG-UNIT DOES NOT EXIST

PF = Printout follows. Followed by the EX:RRCLK output message.

RL = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

Input Message(s):

   STP:RRCLK

Output Message(s):

   EX:RRCLK
EX:RVPT

Software Release: 5E14 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Interactively diagnoses (exercises) the revertive pulsing transceiver (RVPT) to determine whether it is in satisfactory working order. This message is used primarily for manual troubleshooting. The circuit is left out of service when the testing is completed.

Format 1 activates a diagnostic program on the RVPT.

Format 2 executes a portion of a previously activated diagnostic program.

Format 3 transfers control from the current point of suspension to the beginning of the specified segment of a previously activated diagnostic program, ignoring interim test failures.

Format 4 resets the diagnostic options and begins executing the previously activated diagnostic program from the current point of suspension until the specified number of segments has been performed.

Format 5 inverts the state (from running to suspended or vice versa) of a previously activated diagnostic program.

To stop this exercise, use input message STP:RVPT. The unit will remain out of service.

2. FORMAT

[1] EX:RVPT=a-b-c-d,START[,GROW];

[2] EX:RVPT=a-b-c-d[,RAW][,UCL][,RPT=[f]][,SYNCH=g-h-i]PH={j-k|j-k&l}[,TLP];

[3] EX:RVPT=a-b-c-d,PAUSE=m-n;

[4] EX:RVPT=a-b-c-d,STEP=e[,RAW][,UCL][,SYNCH=g-h-i][,TLP];


3. EXPLANATION OF MESSAGE

GROW = Allow access to growth equipment.

RAW = Print raw data from test failure.

TLP = Print trouble locating procedure ordered pack list.

UCL = Print all test failures in the specified segment range.

a = Switching module (SM) number.

b = Unit number.

c = Service group number.

d = Board number.
e = The number of segments to be executed, beginning from the current point of suspension.

f = The number of times the exercises is to be repeated (default is 32,767).

g = The number of the phase in which to generate a synch pulse.

h = The number of the segment in which to generate a synch pulse.

i = The number of the statement at the beginning of which a synchronous pulse is to be generated.

j = The number of the phase of the segment(s) to be executed.

k = The number of the segment or first segment of a range in phase ‘j’ to be executed.

l = The last segment of a range in phase ‘j’ to be executed.

m = The phase at which suspension of diagnostic execution is desired.

n = The segment number at which suspension of diagnostic execution is desired.

4. SYSTEM RESPONSE

NG = No good. The request has been denied. Invalid SM number, metallic service unit (MSU) number, or service group number.

PF = Printout follows. The request was accepted. Followed by the EX:RVPT output message.

5. REFERENCES

Input Message(s):

STP:RVPT

Output Message(s):

EX:RVPT
**EX:SAS**

**Software Release:** 5E14 and later  
**Command Group:** SM  
**Application:** 5  
**Type:** Input

1. **PURPOSE**

Interactively diagnoses (exercises) the service announcement system (SAS) unit. This message is used primarily for manual troubleshooting. Exercise is only performed once unless the RPT option is specified.

Format 1 activates a diagnostic program on the SAS unit.

Format 2 executes a portion of a previously activated diagnostic program.

Format 3 inverts the state (from running to suspended or vice versa) of a previously activated diagnostic program.

Format 4 resets the diagnostic option and begins executing the previously activated diagnostic program from the current point of suspension until the specified number of segments has been performed.

Format 5 transfers control from the current point of suspension to the beginning of the specified segment of a previously activated diagnostic program, ignoring interim test failures.

To stop this exercise, use the STP:SAS input message. The unit will remain out-of-service (OOS).

2. **FORMAT**

[1] `EX:SAS=a-b,START[,GROW];`

[2] `EX:SAS=a-b,PH=h-i[,UCL][,RAW][,SYNCH=e-f-g][,RPT [=d]][,TLP];`

[3] `EX:SAS=a-b;`

[4] `EX:SAS=a-b,STEP=c[,UCL][,RAW][,SYNCH=e-f-g][,TLP];`

[5] `EX:SAS=a-b,PAUSE=j-k;`

3. **EXPLANATION OF MESSAGE**

- **GROW** = Allow access to growth equipment.
- **RAW** = Print raw test failure data.
- **UCL** = Execute unconditionally. DGN will continue past all non-fatal failures.
- **a** = Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
- **b** = SAS unit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
- **c** = The number of segments to be executed, beginning from the current point of suspension.
- **d** = Number of times the test is to be repeated. (default is 32,767).
e = The number of the phase that has statement ‘g’ and segment ‘f’ (SM units only).
f = The number of the segment that has statement ‘g’ (SM units only).
g = The number of the statement at the beginning of which a synchronizing pulse is to be generated (SM units only).
h = The phase of the segment(s) to be executed.
i = The segment or range of segments in phase ‘h’ to be executed.
j = The number of the phase at which suspension of diagnostic execution is desired.
k = The segment number at which suspension of diagnostic execution is desired.

4. SYSTEM RESPONSE

NG = No good. The request has been denied because it conflicts with current equipment status. May also include:
   - SM DOES NOT EXIST = The requested SM does not exist in the system.
   - SM UNEQUIPPED = The SM specified in the request is unequipped.
   - UNIT DOES NOT EXIST = The requested unit does not exist in the system.

PF = Printout follows. The request has been accepted. Followed by the EX:SAS output message.

RL = Retry later. The request cannot be executed now due to unavailable system resources. The message may be entered again later.

5. REFERENCES

Input Message(s):

   STP:SAS

Output Message(s):

   EX:SAS

Input Appendix(es):

   APP:RANGES
EX:SCAN

Software Release: 5E14 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Requests interactive diagnostics (exercises) of the scan point board (SCAN). This message is used primarily for manual troubleshooting.

Format 1 starts a diagnostic exercise program on the scan point board.

Format 2 resets the diagnostic options and begins executing the previously activated diagnostic program from the current point of suspension until the specified number of segments has been performed.

Format 3 inverts the state (from running to suspended or vice versa) of a previously activated diagnostic program.

Format 4 executes a portion of a previously activated diagnostic program.

Format 5 transfers control from the current point of suspension to the beginning of the specified segment of a previously activated diagnostic program, ignoring interim test failures.

To stop this exercise, use the STP:SCAN input message. The unit will remain out-of-service (OOS).

2. FORMAT

[1] EX:SCAN=a-b-c-d,START[,GROW];

[2] EX:SCAN=a-b-c-d[,UCL][,RAW][,SYNCH=g-h-i],STEP=e[,TLP];


[4] EX:SCAN=a-b-c-d[,UCL][,RAW][,SYNCH=g-h-i][,RPT[=f]],PH=j-k[,TLP];

[5] EX:SCAN=a-b-c-d,PAUSE=l-m;

3. EXPLANATION OF MESSAGE

GROW = Allow access to growth equipment.

RAW = Print raw test failure data.

TLP = Print ordered pack list.

UCL = Execute unconditionally.

a = Switching module (SM) number.

b = Metallic service unit number (0 or 1).

c = Service group number (0 or 1).

d = Scan point board number (0-31).

e = The number of segments to be executed, beginning from the current point of suspension.
4. SYSTEM RESPONSE

NG  = No good. The request has been denied. The message form is valid, but the request conflicts with current status.

PF  = Printout follows. The request has been accepted. Followed by the EX:SCAN output message.

5. REFERENCES

Input Message(s):

STP:SCAN

Output Message(s):

EX:SCAN
EX:SCSDC

Software Release: 5E14 and later
Command Group: AM
Application: 5,3B
Type: Input

1. PURPOSE


2. FORMAT

EX:SCSDC=a[:][RAW][,UCL],PH=b[,TLP];

3. EXPLANATION OF MESSAGE

RAW = Print all the diagnostic failures. Default is the first five failures.

TLP = Execute the trouble locating procedure (TLP) at the conclusion of the diagnostic. This process generates a list of suspected faulty equipment.

NOTE: It is not recommended that the TLP and UCL parameters be specified together, as it may produce an improper TLP listing.

UCL = Execute unconditionally.

NOTE: This option does not override forced early terminations.

a = Member number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

b = Execute the specified phase.

NOTE: The phase will not be executed until subsequent messages from the EX:LOOP, EX:PAUSE, EX:STEP, and EX:STOP input messages are input.

4. SYSTEM RESPONSE

PF = Printout follows. Followed by EX:SCSDC output message.

5. REFERENCES

Input Message(s):

DGN:SCSDC
EX:LOOP
EX:PAUSE
EX:STEP
EX:STOP
STOP:DMQ
STP:DMQ
Output Message(s):

ANALY:TLPPFILE
DGN:SCSDC
EX:SCSDC

Input Appendix(es):

APP:RANGES
EX:SDFI

**Software Release:** 5E14 and later  
**Command Group:** SM  
**Application:** 5  
**Type:** Input

1. **PURPOSE**

Interactively diagnoses (exercises) a SLC®96 digital facility interface (SDFI). This message is used primarily for manual troubleshooting.

Format 1; starts a diagnostic exercise program on the SDFI.

Format 2; executes a portion of a previously activated diagnostic program.

Format 3; inverts the state (from running to suspended or vice versa) of a previously activated diagnostic program.

Format 4; resets the diagnostic’s options and executes the previously activated diagnostic program from the current point of suspension until the specified number of segments has been performed.

Format 5; transfers control from the current point of suspension to the beginning of the specified segment of a previously activated diagnostic program, ignoring interim test failures.

To stop this exercise, use input message STP:SDFI. The unit will remain out of service.

2. **FORMAT**

   [1]  EX:SDFI=a-b-c,START[,GROW];
   [2]  EX:SDFI=a-b-c,PH=d[-e&f][,UCL][,RAW][,SYNCH=g-h-i] [,RPT[=j]][,TLP];
   [3]  EX:SDFI=a-b-c;
   [4]  EX:SDFI=a-b-c,STEP=k[,UCL][,RAW][,SYNCH=g-h-i][,TLP];
   [5]  EX:SDFI=a-b-c,PAUSE=l-m;

3. **EXPLANATION OF MESSAGE**

   **GROW**  = Allow access to growth equipment.
   **RAW**  = Print data from raw data test failure.
   **TLP**  = Print the ordered pack list.
   **UCL**  = Unconditionally execute.
   **a**  = Switching module (SM) number.
   **b**  = DCLU number (0-7).
   **c**  = SDFI number (0-29).
   **d**  = The number of the phase that has the segment(s) to be executed.
e = The segment number or upper limit of a range of segment numbers in phase ‘d’ to be executed.
f = Lower limit of a range of segment numbers in phase ‘d’ to be executed.
g = The phase that has statement ‘i’ and segment ‘h’ (SM units only).
h = The segment that has statement ‘h’ (SM units only).
i = The statement at the beginning of which a synchronizing pulse is to be generated (SM units only).
j = Number of times the exercise is to be repeated. Default is 32,767.
k = The number of segments to be executed, beginning from the current point of suspension.
l = The number of the phase at which suspension of diagnostic execution is desired.
m = The segment number at which suspension of diagnostic execution is desired.

4. SYSTEM RESPONSE

NG = No good. The request has been denied. The message form is valid, but the request conflicts with current status.

PF = Printout follows. The request was accepted. Followed by the EX:SDFI output message.

5. REFERENCES

Input Message(s):

STP:SDFI

Output Message(s):

EX:SDFI
**EX:SDLC**

**Software Release:** 5E14 and later  
**Command Group:** AM  
**Application:** 5,3B  
**Type:** Input

1. **PURPOSE**


2. **FORMAT**

\[ \text{EX:SDLC}=a[:[	ext{RAW}],UCL]], \text{PH}=b[,\text{TLP}]; \]

3. **EXPLANATION OF MESSAGE**

- **RAW**  
  = Print all the diagnostic failures. Default is to print the first five failures.

- **TLP**  
  = Execute the trouble locating procedure (TLP) at the conclusion of the diagnostic. This process generates a list of suspected faulty equipment.  
  
  **NOTE:** It is not recommended that the TLP and UCL parameters be specified together, as it may produce an improper TLP listing.

- **UCL**  
  = Execute unconditionally.  
  
  **NOTE:** This option does not override forced early terminations.

- **a**  
  = Member number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

- **b**  
  = Execute the specified phase.  
  
  **NOTE:** The phase will not be executed until subsequent messages from the EX:LOOP, EX:PAUSE, EX:STEP, and EX:STOP input messages are input.

4. **SYSTEM RESPONSE**

\[ \text{PF} = \text{Printout follows. Followed by the EX:SDLC output message.} \]

5. **REFERENCES**

Input Message(s):

- DGN:SDLC  
- EX:LOOP  
- EX:PAUSE  
- EX:STEP  
- EX:STOP  
- STOP:DMQ  
- STP:DMQ
Output Message(s):

ANALY: TLPFILE
DGN: SDLC
EX: SDLC

Input Appendix(es):

APP: RANGES
EX:SLIM

Software Release: 5E14 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Requests interactive diagnostics (exercises) of the subscriber line instrument measurement (SLIM) board. This message is used primarily for manual troubleshooting.

Format 1 starts a diagnostic exercise program on the SLIM board. This input message must be run before any of the other EX input message formats can be executed.

Format 2 resets the diagnostic options and begins executing the previously activated diagnostic program from the current point of suspension until the specified number of segments has been performed.

Format 3 inverts the state (from running to suspended or vice versa) of a previously activated diagnostic program.

Format 4 executes a portion of a previously activated diagnostic program.

Format 5 transfers control from the current point of suspension to the beginning of the specified segment of a previously activated diagnostic program, ignoring interim test failures.

To stop this exercise, use the STP:SLIM input message. The unit will remain out-of-service (OOS).

2. FORMAT

[1]   EX:SLIM=a-b-c-d,START[,GROW];

[2]   EX:SLIM=a-b-c-d[,UCL][,RAW][,SYNCH=g-h-i],STEP=e[,TLP];


[4]   EX:SLIM=a-b-c-d[,UCL][,RAW][,SYNCH=g-h-i][,RPT [=f]],PH=j-k[,TLP];

[5]   EX:SLIM=a-b-c-d,PAUSE=l-m;

3. EXPLANATION OF MESSAGE

GROW = Allow access to growth equipment.

RAW = Print raw test failure data.

TLP = Print ordered pack list.

UCL = Execute unconditionally.

a = Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

b = Metallic service unit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

c = Service group number. Refer to the APP:RANGES appendix in the Appendixes section of the
Input Messages manual.

d = SLIM board number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

e = The number of segments to be executed, beginning from the current point of suspension.

f = Number of times the exercise is to be repeated. The default is 32,767.

g = The number of the phase that has statement from variable 'i' and segment from variable 'h' (SM units only).

h = The number of the segment that has statement from variable 'i' (SM units only).

i = The number of the statement at the beginning of which a synchronizing pulse is to be generated (SM units only).

j = The number of the phase of the segment(s) to be executed.

k = The segment or range of segments in phase from variable 'j' to be executed.

l = The phase at which suspension of diagnostic execution is desired.

m = The segment number at which suspension of diagnostic execution is desired.

4. SYSTEM RESPONSE

NG = No good. The request has been denied. The message form is valid, but the request conflicts with current status.

PF = Printout follows. The request has been accepted. An EX:SLIM output message will follow.

5. REFERENCES

Input Message(s):

STP:SLIM

Output Message(s):

EX:SLIM

Input Appendix(es):

APP:RANGES
EX:STEP

Software Release: 5E14 and later
Command Group: AM, CCS
Application: 5,3B
Type: Input

1. PURPOSE

Requests to step through the diagnostic input messages and suspend at the specified statement number. It is similar to the EX:PAUSE input message, but in the case of a CU diagnostic, it will also print the input message buffer contents being passed to the diagnostic driver.

NOTE: To use this input message, first invoke the interactive diagnostics. For example: EX:a[,b];ph=c;

2. FORMAT

EX:STEP:a[,b],ST=e;

3. EXPLANATION OF MESSAGE

a = Unit type and member number on which interactive diagnostics was started. Refer to the APP:MEM-NUM-UNIT appendix in the Appendixes section of the Input Messages manual for valid unit names and member numbers.

b = Unit type and member number of the subunit, if any. Refer to the APP:MEM-NUM-CU appendix in the Appendixes section of the Input Messages manual for valid subunit names and member numbers.

c = Executes the specified phase.

e = Statement number that is the target of the action. This statement is not executed.

4. SYSTEM RESPONSE

PF = Printout follows. Followed by the EX:STEP output message.

RL = Retry later. The system is in an overload condition.

?I = General syntax error followed by the parameter position and one of the following reasons:
- EXTRA KEYWORD = Duplicate or extraneous keywords were input.
- INVALID KEYWORD = The keyword in the stated parameter position is not a valid keyword.
- MISSING KEYWORD = A required keyword is missing from the input.

?D = General syntax error in the data field followed by the parameter and one of the following reasons.
- EXTRA KEYWORD = Duplicate or extraneous keywords were input.
- INVALID KEYWORD = The keyword in the stated parameter position is not a valid keyword.
- MISSING DATA = Data required for the statement keyword was not found on the input line.
- RANGE ERROR = Not a valid range for the statement parameter.

?E = Input error of undetermined type.
5. REFERENCES

Input Message(s):

EX:CU
EX:DCI
EX:DFC
EX:DUIC
EX:HSDC
EX:IOP
EX:MHD
EX:MTC
EX:MTTYC
EX:PAUSE
EX:SCSDC
EX:SDLIC
EX:TTYC
STOP:DMQ
STP:DMQ

Output Message(s):

ANALY:TLPFILE
EX:STEP

Input Appendix(es):

APP:MEM-NUM-CU
APP:MEM-NUM-UNIT
EX:STOP

Software Release: 5E14 and later
Command Group: AM, CCS
Application: 5,3B
Type: Input

1. PURPOSE

Requests to exit from the interactive diagnostic mode. This only stops the EX:LOOP input message.

NOTE: To use this input message, first invoke the interactive diagnostics and the EX:LOOP input message. For example: EX:a[,b];ph=c; EX:LOOP;a[,b];st=f-g;

2. FORMAT

EX:STOP:a[,b];

3. EXPLANATION OF MESSAGE

a = Unit type and member number of the unit on which interactive diagnostics was started. Refer to the APP:MEM-NUM-UNIT appendix in the Appendixes section of the Input Messages manual for valid unit names and member numbers.

b = Unit type and member number of the subunit beneath the unit name. Refer to the APP:MEM-NUM-CU appendix in the Appendixes section of the Input Messages manual for valid subunit names and member numbers.

c = Executes the specified phase.

f = Statement lower boundary of an exercise loop.

g = Statement upper boundary of an exercise loop.

4. SYSTEM RESPONSE

PF = Printout follows. Followed by the EX:STEP output message.

RL = Retry later. The system is in an overload condition.

?I = General syntax error, followed by the parameter position and one of the following reasons:
   - EXTRA KEYWORD = Duplicate or extraneous keywords were input.
   - INVALID KEYWORD = The keyword in the stated parameter position is not a valid keyword.
   - MISSING KEYWORD = A required keyword is missing from the input.

?D = General syntax error in the data field, followed by the parameter position and one of the following reasons:
   - EXTRA KEYWORD = Duplicate or extraneous keywords were input.
   - INVALID KEYWORD = The keyword in the stated parameter position is not a valid keyword.
   - MISSING DATA = Data required for the statement keyword was not found on the input line.
   - MISSING KEYWORD = A required keyword is missing from the input.
   - RANGE ERROR = Not a valid value for the statement parameter.
5. REFERENCES

Input Message(s):

EX:CU
EX:DCI
EX:DFC
EX:DUIC
EX:HSDC
EX:IOP
EX:LOOP
EX:MHD
EX:MTC
EX:MITYC
EX:SCSDC
EX:SDL
EX:TTYC
STOP:DMQ
STP:DMQ

Output Message(s):

ANALY:TLPPFILE
EX:STEP

Input Appendix(es):

APP:MEM-NUM-CU
APP:MEM-NUM-UNIT

Other Manual(s):
235-105-220 Corrective Maintenance
EX:TAC

Software Release: 5E14 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Interactively diagnoses (exercises) the test and access circuit (TAC). This message is used primarily for manual troubleshooting.

Format 1 starts a diagnostic exercise program on the TAC. Format 2 resets the diagnostic options and begins executing the previously activated diagnostic program from the current point of suspension until the specified number of segments has been performed. Format 3 inverts the state (from running to suspended or vice versa) of a previously activated diagnostic program. Format 4 executes a portion of a previously activated diagnostic program. Format 5 transfers control from the current point of suspension to the beginning of the specified segment of a previously activated diagnostic program, ignoring interim test failures. To stop this exercise, use input message STP:TAC. The unit will remain out-of-service (OOS).

2. FORMAT

[1] EX:TAC=a-b-c,START[,GROW];

[2] EX:TAC=a-b-c[,UCL][,RAW][,SYNCH=f-g-h],STEP=d[,TLP];

[3] EX:TAC=a-b-c;

[4] EX:TAC=a-b-c[,UCL][,RAW][,SYNCH=f-g-h][,RPT=[e]]
   ,PH=i-j[,TLP];

[5] EX:TAC=a-b-c,PAUSE=k-l;

3. EXPLANATION OF MESSAGE

GROW = Allow access to growth equipment.

RAW = Print raw test failure data.

TLP = Print ordered pack list.

UCL = Execute unconditionally.

a = Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

b = Trunk unit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

c = Service group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

d = The number of segments to be executed, beginning from the current point of suspension.

e = Number of times the exercise is to be repeated. Default=32,767.
\(f\) = The number of the phase that has statement 'h' and segment 'g' (SM units only).

\(g\) = The number of the segment that has statement 'h' (SM units only).

\(h\) = The number of the statement at the beginning of which a synchronizing pulse is to be generated (SM units only).

\(i\) = The number of the phase of the segment(s) to be executed.

\(j\) = The segment number or range of segment numbers in phase 'i' to be executed.

\(k\) = The number of the phase at which suspension of diagnostic execution is desired.

\(l\) = The segment number at which suspension of diagnostic execution is desired.

4. SYSTEM RESPONSE

NG = No good. The request has been denied. The message form is valid, but the request conflicts with current status.

PF = Printout follows. The request has been accepted. Followed by the EX:TAC output message.

5. REFERENCES

Input Message(s):

STP:TAC

Output Message(s):

EX:TAC

Input Appendix(es):

APP:RANGES
EX:TEN

Software Release: 5E14 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Interactively diagnoses (exercises) the trunk equipment number (TEN). This message is used primarily for manual troubleshooting.

Format 1 starts a diagnostic exercise program on the TEN.

Format 2 resets the diagnostic options and begins executing the previously activated diagnostic program from the current point of suspension until the specified number of segments has been performed.

Format 3 inverts the state (from running to suspended or vice versa) of a previously activated diagnostic program.

Format 4 executes a portion of a previously activated diagnostic program.

Format 5 transfers control from the current point of suspension to the beginning of the specified segment of a previously activated diagnostic program, ignoring interim test failures.

To stop this exercise, use input message STP:TEN. The unit will remain out of service.

2. FORMAT

[1] EX:TEN=a-b-c-d-e,START[,GROW];
[2] EX:TEN=a-b-c-d-e[,UCL][,RAW][,SYNCH=h-i-j],STEP=f[,TLP];
[3] EX:TEN=a-b-c-d-e;
[4] EX:TEN=a-b-c-d-e[,UCL][,RAW][,SYNCH=h-i-j][,RPT[=g]]
 ,PH=k-l[,TLP];
[5] EX:TEN=a-b-c-d-e,PAUSE=m-n;

3. EXPLANATION OF MESSAGE

GROW = Allow access to growth equipment.
RAW = Print raw test failure data.
TLP = Print ordered pack list.
UCL = Execute unconditionally.
a = Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
b = TEN unit number in the SM. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
c = Service group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
d = TEN board number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

e = TEN circuit number.

f = The number of segments to execute, beginning from the current point of suspension.

g = Number of times the exercise is to be repeated. Default=32,767.

h = The number of the phase that has statement 'j' and segment 'i' (SM units only).

i = The number of the segment that has statement 'j' (SM units only).

j = The number of the statement at the beginning of which a synchronizing pulse is to be generated (SM units only).

k = The number of the phase to be executed. If no segments (variable 'l') are specified, execute the entire phase.

l = The segment number or range of segment numbers in phase 'k' to be executed.

m = The number of the phase at which suspension of diagnostic execution is desired.

n = The segment number at which suspension of diagnostic execution is desired.

4. SYSTEM RESPONSE

NG = No good. The request has been denied. The message form is valid, but the request conflicts with current status.

PF = Printout follows. The request has been accepted. Followed by the EX:TEN output message.

5. REFERENCES

Input Message(s):

STP:TEN

Output Message(s):

EX:TEN
EX:TMS-A

Software Release: 5E14 only
Command Group: CM
Application: 5
Type: Input

1. PURPOSE

Requests that the time multiplexed switch (TMS) be exercised in an interactive mode. This message is used primarily for manual troubleshooting.

Format 1; activates the interactive diagnostic program.

Format 2; begins executing the previously activated diagnostic program from the current point of suspension until the specified number of segments has been performed. The number of segments is given by the STEP parameter.

Format 3; executes the requested phase and segment or range of segments of a previously activated diagnostic program.

Format 4; causes a previously activated diagnostic program to suspend immediately, rather than completing the previous message (valid after using either Format 2; or 3).

Format 5; resets the diagnostic options and resumes executing the previously activated diagnostic program from the current point of suspension. This format is used to restart the exercise after suspending it using Format 4;.

Format 6; transfers control from the current point of suspension to the beginning of the specified phase and segment of a previously activated diagnostic program, ignoring interim test failures. When the requested phase and segment are reached, the exercise will pause.

NOTE: Use the STP:TMS input message to terminate the exercise. Also, execute Format 1; first before attempting to use any of the other formats.

2. FORMAT

[1] EX:TMS=a,START[,HELPER=b][,GROW];

[2] EX:TMS=a[,UCL][,RAW],STEP=c[,TLP];

[3] EX:TMS=a[,UCL][,RAW][,RPT=d][,PH=e-f[&g]][,TLP];

[4] EX:TMS=a;

[5] EX:TMS=a[,UCL][,RAW][,RPT=d][,TLP];

[6] EX:TMS=a,PAUSE=h-i;

3. EXPLANATION OF MESSAGE

GROW = Allow access to growth equipment.

RAW = Print raw test failure data.

TLP = Print the ordered suspected pack list if a test fails.

UCL = Print all test results unconditionally rather than just printing the first failing test.
a = TMS side (0 or 1).
b = Foundation peripheral controller (FPC) side (0 or 1) to be used as a 'helper' unit for the diagnostic. If this option is not input the standby FPC will be used.
c = The number of segments to be executed, beginning from the current point of suspension. Ignore all specified RPT options.
d = Number of times the exercise is to be repeated (default is 32,767). Ignore if STEP option is specified.
e = The number of the phase to be executed.
f = The number of segment in phase 'e' to be executed, or the lower limit in a range of segments.
g = Upper limit in a range of segments to be executed in phase 'e'.
h = The phase number at which suspension of the diagnostic execution is desired.
i = The segment of phase 'h' at which suspension of the diagnostic execution is desired.

4. SYSTEM RESPONSE

NG = No good. The request has been denied. The message syntax is valid, but the request could not be processed.
PF = Printout follows. Followed by the EX:TMS output message.
RL = Retry later. The request cannot be executed now.

5. REFERENCES

Input Message(s):
ABT:TMS
DGN:TMS
STP:TMS

Output Message(s):
EX:TMS

Input Appendix(es):
APP:CM-IM-REASON

Other Manual(s):
235-105-210  Routine Operations and Maintenance
235-105-220  Corrective Maintenance
EX:TMS-B

Software Release: 5E15 and later
Command Group: CM
Application: 5
Type: Input

1. PURPOSE

Requests that the time multiplexed switch (TMS) be exercised in an interactive mode. This message is used primarily for manual troubleshooting. This command is not applicable in Communication Module 3 (CM3) office.

Format 1 activates the interactive diagnostic program.

Format 2 begins executing the previously activated diagnostic program from the current point of suspension until the specified number of segments has been performed. The number of segments is given by the STEP parameter.

Format 3 executes the requested phase and segment or range of segments of a previously activated diagnostic program.

Format 4 causes a previously activated diagnostic program to suspend immediately, rather than completing the previous message (valid after using either Format 2 or 3).

Format 5 resets the diagnostic options and resumes executing the previously activated diagnostic program from the current point of suspension. This format is used to restart the exercise after suspending it using Format 4.

Format 6 transfers control from the current point of suspension to the beginning of the specified phase and segment of a previously activated diagnostic program, ignoring interim test failures. When the requested phase and segment are reached, the exercise will pause.

Note: Use the STP:TMS input message to terminate the exercise. Also, execute Format 1 first before attempting to use any of the other formats.

2. FORMAT

[1] EX:TMS=a,START[,HELPER=b][,GROW];

[2] EX:TMS=a[,UCL][,RAW],STEP=c[,TLP];

[3] EX:TMS=a[,UCL][,RAW][,RPT=d],PH=e-f[&g][,TLP];

[4] EX:TMS=a;

[5] EX:TMS=a[,UCL][,RAW][,RPT=d][,TLP];

[6] EX:TMS=a,PAUSE=h-i;

3. EXPLANATION OF MESSAGE

GROW = Allow access to growth equipment.
= Print raw test failure data.

TLP = Print the ordered suspected pack list if a test fails.

UCL = Print all test results unconditionally rather than just printing the first failing test.

a = TMS side (0 or 1).

b = Foundation peripheral controller (FPC) side (0 or 1) to be used as a 'helper' unit for the diagnostic. If this option is not input the standby FPC will be used.

c = The number of segments to be executed, beginning from the current point of suspension. Ignore all specified RPT options.

d = Number of times the exercise is to be repeated (default is 32,767). Ignore if STEP option is specified.

e = The number of the phase to be executed.

f = The number of segment in phase 'e' to be executed, or the lower limit in a range of segments.

g = Upper limit in a range of segments to be executed in phase 'e'.

h = The phase number at which suspension of the diagnostic execution is desired.

i = The segment of phase 'h' at which suspension of the diagnostic execution is desired.

4. SYSTEM RESPONSE

NG = No good. The request has been denied. The message syntax is valid, but the request could not be processed.

PF = Printout follows. Followed by the EX:TMS output message.

RL = Retry later. The request cannot be executed now.

5. REFERENCES

Input Message(s):

ABT:TMS
DGN:TMS
STP:TMS

Output Message(s):

EX:TMS

Input Appendix(es):

APP:CM-IM-REASON
Other Manual(s):
- 235-105-210  *Routine Operations and Maintenance*
- 235-105-220  *Corrective Maintenance*
**EX:TTFCOM**

**Software Release:** 5E14 and later  
**Command Group:** SM  
**Application:** 5  
**Type:** Input

### 1. PURPOSE

Interactively diagnoses (exercises) the transmission test facility common (TTFCOM) circuit. This message is used primarily for manual troubleshooting.

Format 1 starts a diagnostic exercise program on the TTFCOM circuit. Format 2 resets the diagnostic options and begins executing the previously activated diagnostic program from the current point of suspension until the specified number of segments has been performed. Format 3 inverts the state (from running to suspended or vice versa) of a previously activated diagnostic program. Format 4 executes a portion of a previously activated diagnostic program. Format 5 transfers control from the current point of suspension to the beginning of the specified segment of a previously activated diagnostic program, ignoring interim test failures. To stop this exercise, use the STP:TTFCOM input message. The unit will remain out of service.

### 2. FORMAT

1. \[EX:TTFCOM=a-b-c-d,START[,GROW]];  
2. \[EX:TTFCOM=a-b-c-d[,UCL][,RAW][,SYNCH=f-g-h],STEP=e[,TLP]];  
3. \[EX:TTFCOM=a-b-c-d;]  
4. \[EX:TTFCOM=a-b-c-d[,UCL][,RAW][,SYNCH=g-h-i][,RPT=[f]],PH=j-k[,TLP]];  
5. \[EX:TTFCOM=a-b-c-d,PAUSE=l-m;]  

### 3. EXPLANATION OF MESSAGE

- **GROW** = Allow access to growth equipment.  
- **RAW** = Print raw test failure data.  
- **TLP** = Print ordered pack list.  
- **UCL** = Execute unconditionally.  

**a** = Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.  

**b** = Global digital service unit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.  

**c** = Service group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.  

**d** = Board number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.  

**e** = The number of segments to be executed, beginning from the current point of suspension.
f = Number of times the exercise is to be repeated. Default=32,767.
g = The number of the phase that has statement 'i' and segment 'h'.
h = The number of the segment that has statement 'i'.
i = The number of the statement at the beginning of which a synchronizing pulse is to be generated.
j = The number of the phase of the segment(s) to be executed.
k = The segment or range of segments in phase 'j' to be executed.
l = The phase at which suspension of diagnostic execution is desired.
m = The segment number at which suspension of diagnostic execution is desired.

4. SYSTEM RESPONSE

NG = No good. The request has been denied. The message form is valid, but the request conflicts with current status.

PF = Printout follows. The request has been accepted. Followed by the EX:TTFCOM output message.

5. REFERENCES

Input Message(s):

STP:TTFCOM

Output Message(s):

EX:TTFCOM

Input Appendix(es):

APP: RANGES
EX:TTYC

Software Release: 5E14 and later
Command Group: AM
Application: 5,3B
Type: Input

1. PURPOSE


2. FORMAT

EX:TTYC=a:[RAW][,UCL][,PH=b[,TLP][,CONT];

3. EXPLANATION OF MESSAGE

RAW = Print all the diagnostic failures. Default is to print the first five failures.

TLP = Execute the trouble locating procedure (TLP) at the conclusion of the diagnostic. This process generates a list of suspected faulty equipment.

   NOTE: It is not recommended that the TLP and UCL parameters be specified together, as it may produce an improper TLP listing.

UCL = Execute unconditionally.

   NOTE: This option does not override forced early terminations.

a = Member number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

b = Execute the specified phase.

   NOTE: The phase will not be executed until subsequent messages from the EX:LOOP, EX:PAUSE, EX:STEP, and EX:STOP input messages are input.

4. SYSTEM RESPONSE

PF = Printout follows. Followed by the EX:TTYC output message.

5. REFERENCES

Input Message(s):

DGN:TTYC
EX:LOOP
EX:PAUSE
EX:STEP
EX:STOP
STOP:DMQ
STP:DMQ
Output Message(s):

   ANALY: TLPROFLE
   DGN: TTYC
   EX: TTYC

Input Appendix(es):

   APP: RANGES
**EX:UCONF**

**Software Release:** 5E14 and later  
**Command Group:** SMA  
**Application:** 5  
**Type:** Input

1. **PURPOSE**

Interactively diagnoses (exercises) the universal conference circuit (UCONF) board. This message is used primarily for manual troubleshooting.

Format 1 starts a diagnostic exercise program on the universal conference circuit board.

Format 2 resets the diagnostic options and begins executing the previously activated diagnostic program from the current point of suspension until the specified number of segments has been performed.

Format 3 inverts the state (from running to suspended or vice versa) of a previously activated diagnostic program.

Format 4 executes a portion of a previously activated diagnostic program.

Format 5 transfers control from the current point of suspension to the beginning of the specified segment of a previously activated diagnostic program, ignoring interim test failures.

To stop this exercise, use input message STP:UCONF. The unit will remain out-of-service (OOS).

2. **FORMAT**

[1] \[EX:UCONF=a-b-c-d,START[,GROW];\]

[2] \[EX:UCONF=a-b-c-d[,UCL][,RAW][,SYNCH=g-h-i],STEP=e[,TLP];\]

[3] \[EX:UCONF=a-b-c-d;\]

[4] \[EX:UCONF=a-b-c-d[,UCL][,RAW][,SYNCH=g-h-i][,RPT=[f]]
[,PH=j-k[,TLP];\]

[5] \[EX:UCONF=a-b-c-d,PAUSE=l-m;\]

3. **EXPLANATION OF MESSAGE**

GROW = Allow access to growth equipment.

RAW = Print raw test failure data.

TLP = Print ordered pack list.

UCL = Execute unconditionally.

a = Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

b = Global digital service unit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

c = Service group number. Refer to the APP:RANGES appendix in the Appendixes section of the
Input Messages manual.

d = Digital service circuit unit board number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

e = The number of segments to be executed, beginning from the current point of suspension.

f = Number of times the exercise is to be repeated. Default=32,767.

g = The number of the phase that has statement ‘i’ and segment ‘h’ (SM units only).

h = The number of the segment that has statement ‘i’ (SM units only).

i = The number of the statement at the beginning of which a synchronizing pulse is to be generated (SM units only).

j = The phase of the segment(s) to be executed.

k = The segment or range of segments in phase ‘j’ to be executed.

l = The phase at which suspension of diagnostic execution is desired.

m = The segment number at which suspension of diagnostic execution is desired.

4. SYSTEM RESPONSE

NG = No good. The request has been denied. The message form is valid, but the request conflicts with current status.

PF = Printout follows. The request has been accepted. Followed by the EX:UCONF output message.

5. REFERENCES

Input Message(s):

   STP:UCONF

Output Message(s):

   EX:UCONF

Input Appendix(es):

   APP:RANGES
**EX:UTD**

**Software Release:** 5E14 and later  
**Command Group:** SM  
**Application:** 5  
**Type:** Input

1. **PURPOSE**

Interactively diagnoses (exercises) the universal tone detector (UTD). This message is used primarily for manual troubleshooting.

Format 1 starts a diagnostic exercise program on the UTD.

Format 2 resets the diagnostic options and begins executing the previously activated diagnostic program from the current point of suspension until the specified number of segments has been performed.

Format 3 inverts the state (from running to suspended or vice versa) of a previously activated diagnostic program.

Format 4 executes a portion of a previously activated diagnostic program.

Format 5 transfers control from the current point of suspension to the beginning of the specified segment of a previously activated diagnostic program, ignoring interim test failures.

To stop this exercise, use input message STP:UTD. The unit will remain out of service.

2. **FORMAT**

[1] `EX:UTD=a-b-c-d,START[,GROW];`

[2] `EX:UTD=a-b-c-d[,UCL][,RAW][,SYNCH=g-h-i],STEP=e[,TLP];`


[4] `EX:UTD=a-b-c-d[,UCL][,RAW][,SYNCH=g-h-i][,RPT[=f]],[PH=j-k[,TLP];`

[5] `EX:UTD=a-b-c-d,PAUSE=l-m;`

3. **EXPLANATION OF MESSAGE**

- **GROW** = Allow access to growth equipment.
- **RAW** = Print raw test failure data.
- **TLP** = Print ordered pack list.
- **UCL** = Execute unconditionally.
- **a** = Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
- **b** = Local digital service unit (DSU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
- **c** = Service group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
d = DSU board position number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
e = The number of segments to execute, beginning from the current point of suspension.
f = Number of the exercise is to be repeated. Default=32,767.
g = The number of the phase that has statement 'i' and segment 'h' (SM units only).
h = The number of the segment that has statement 'i' (SM units only).
i = The number of the statement at the beginning of which a synchronizing pulse is to be generated (SM units only).
j = The number of the phase of the segment(s) to be executed.
k = The number of the segment or range of segments in phase 'j' to be executed.
l = The number of the phase at which suspension of diagnostic execution is desired.
m = The segment number at which suspension of diagnostic execution is desired.

4. SYSTEM RESPONSE

NG = No good. The request has been denied. The message form is valid, but the request conflicts with current status.

PF = Printout follows. The request has been accepted. Followed by the EX:UTD output message.

5. REFERENCES

Input Message(s):

STP:UTD

Output Message(s):

EX:UTD

Input Appendix(es):

APP:RANGES
EX:UTG

Software Release: 5E14 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Interactively diagnoses (exercises) the universal tone generator (UTG). This message is used primarily for manual troubleshooting.

Format 1; starts a diagnostic exercise program on the UTG.

Format 2; resets the diagnostic options and begins executing the previously activated diagnostic program from the current point of suspension until the specified number of segments has been performed.

Format 3; inverts the state (from running to suspended or vice versa) of a previously activated diagnostic program.

Format 4; executes a portion of a previously activated diagnostic program.

Format 5; transfers control from the current point of suspension to the beginning of the specified segment of a previously activated diagnostic program, ignoring interim test failures.

To stop this exercise, use input message STP:UTG. The unit will remain out of service.

2. FORMAT

[1] EX:UTG=a-b-c-d,START[,GROW];
[2] EX:UTG=a-b-c-d[,'UCL'][,RAW][,SYNCH=g-h-i],STEP=e[,TLP];
[4] EX:UTG=a-b-c-d[,'UCL'][,RAW][,SYNCH=g-h-i][,RPT[=f]],PH=j-k[,TLP];
[5] EX:UTG=a-b-c-d,PAUSE=l-m;

3. EXPLANATION OF MESSAGE

GROW = Allow access to growth equipment.

RAW = Print raw test failure data.

TLP = Print ordered pack list.

UCL = Execute unconditionally.

a = Switching module (SM) number.

b = Local digital service unit (DSU) number (0).

c = Service group number (0 or 1).

d = DSU board position number (0-7).
= The number of segments to execute, beginning from the current point of suspension.

f = Number of times the exercise is to be repeated. Default=32,767.

g = The number of the phase that has statement ‘i’ and segment ‘h’ (SM units only).

h = The number of the segment that has statement ‘i’ (SM units only).

i = The number of the statement at the beginning of which a synchronous pulse is to be generated (SM units only).

j = The number of the phase of the segment(s) to be executed.

k = The number of the segment or range of segments in phase ‘j’ to be executed.

l = The number of the phase at which suspension of diagnostic execution is desired.

m = The segment number at which suspension of diagnostic execution is desired.

4. SYSTEM RESPONSE

NG = No good. The request has been denied. The message form is valid, but the request conflicts with current status.

PF = Printout follows. The request has been accepted. Followed by the EX:UTG output message.

5. REFERENCES

Input Message(s):

STP:UTG

Output Message(s):

EX:UTG
29. EXC
1. PURPOSE

Requests that automatic line evaluation (ALE) provide performance monitoring error count information and protocol error histories on integrated services digital network (ISDN) protocol channels. ALE can be requested for an individual ISDN protocol channel [such as, digital subscriber line (DSL)], a DSL group, or an entire switching module (SM). However, only one user-requested ALE can be in progress at a time. Line evaluation may be specified to include level 1 and level 2 error counts and protocol error records (PERs). Refer to the Protocol Error Record Descriptions manual for additional information about a specific PER.

Level 1 applies to U-interface digital subscriber lines (U-DSLs) and retrieves physical layer error counts stored in the integrated services line unit (ISLU or ISLU2) U-card termination or the integrated digital carrier unit (IDCU) TR303 U-card terminations. Some additional error counts are available for ANSI® U-cards; current (CURR) hour, previous (PREV) hour, hour (HOUR), interval (INT), and day (DAY) counts, as well as the history (HIST) for the last eight intervals. U-DSLs equipped with channel units (CUs) make available the current and previous interval counts using the CU option.

Level 1 also applies to basic rate interface transmission extension (BRITE) channel units for interfaces supported by ANSI® U-cards. The CU option must be specified in the input message in order to retrieve or reset the error counts on these channel units. For interfaces that do not support or have no equipped channel units, the CU option will have no effect on the retrieval of data.

INT and DAY counts are accumulations of CURR counts, and are updated hourly. If either the INT or the DAY counters are reset, they will be updated with the contents of the CURR counter at the next hourly interval. Therefore, if a true zero starting point is needed, it is necessary to reset the CURR counter at the same time the INT and/or DAY counters are reset.

Level 1 requests that immediately following the inhibiting (INH:ALE) of ISDN, protocol channels may give an erroneous indication that the level 1 error counts are increasing. The actual counting of level 1 errored seconds, severely errored seconds, and cyclic redundancy check (CRC) block errors (BE), may not be inhibited for a period of up to 5 minutes. Level 1 requests that immediately following the allowing (ALW:ALE) of ISDN, protocol channels may give an erroneous indication that the level 1 error counts are not incrementing. The actual counting of level 1 errored seconds, severely errored seconds, and cyclic redundancy check block errors, may not resume for a period of up to 5 minutes.

Level 1 requests on embedded operation channels (EOC) or timeslot management channels (TMC) are not supported.

Level 2 applies to all ISDN protocol channels and retrieves frame error information stored in the protocol handler (PH). Any of the level 1 or level 2 counts may be reset to zero by using the RESET or SRESET option. Normally only DSLs with either off-normal level 2 counts, or level 1 counts that have exceeded thresholds, are reported. A full report of all DSLs is available by specifying FULL. The FULL option is always implied for level 1 on IDCU terminations.

PER reporting retrieves the protocol error history for an ISDN protocol channel stored in the SMs. The protocol error histories can also be reset using one of the RESET options. In addition, the FROM, TO, and LAST options can be used to retrieve PER histories for specified time periods and for specified counts. The default request is execution of level 2 and PER reporting.
2. FORMAT

EXC:ALE,a[,CH=y][,z][,LAST=a][,FROM=b1-b11-b11][,TO=e][,LEVEL1][,CU][,LEVEL2][,FULL][,PER][,PRINT];

3. EXPLANATION OF MESSAGE

Refer to the Acronym section of the Input Messages manual for the full expansion of acronyms shown in the format.

FULL = For level 1 requests, report counts for all specified line terminations, not just the ones that exceeded a threshold. All IDCU terminations have an implied FULL option for level 1 requests. For level 2 requests, lines with insufficient level 2 error information will also be reported.

LEVEL1 = Evaluate level 1 errors in the ISLU and/or IDCU U-DSL physical layer counters.

LEVEL2 = Evaluate level 2 errors in packet handler counters (default).

PRINT = Send the output to the ROP and switching control center (SCC) as well as to the requesting terminal. The default is to send the output only to the requesting terminal.

a = Line identification. Valid value(s):
   AIUEN=d-u-v-w
   BST=b-c
   DEN=d-e-f-g
   DN=h
   DNUSEOC=d-l-v-x
   DNUSTMC=d-l-v-x
   DSLGM=d-q-i-j = The parameters for DSLGM have more latitude than other identifiers. The 4 legal forms in increasing scope are:
      DSLGM=sm-psunum-group-member = An individual DSLGM.
      DSLGM=sm-psunum-group-ALL = All members of a DSLGM group.
      DSLGM=sm-psunum-ALL-ALL = All members of a PSU
      DSLGM=sm-ALL-ALL-ALL = All DSLGM on an SM (same as sm= option).
      DSLGM=ALL-ALL-ALL-ALL = Entire office.

      Any attempt to mix and match the ALL option with the other parameters will result in propagation of the ALL option to the lower order fields. For example:
      DSLGM=8-ALL-ALL-7 is transformed to DSLGM=8-ALL-ALL-ALL before it is acted upon.
      ATMPP=d-q^1-g^2-h^2
      IDCUEOC=d-u-v-x
      IDCUTMC=d-u-v-x
      ILEN=d-u-v-w
      INEN=d-l-v-w
      LCEN=d-k-l-m
      LCKEN=d-l-v-j-k
      MLHG=n-o
      NEN=d-l-m-x-n-o-y-p
      OAP=b
      OPT=b-c
      PKTDN=h
      PLTEN=d-z-a-b-c
PORT=d-p
PSUEN=d-q^1-r^1-s^1-j
RTRS=q-r
SM=c^1{&d^1}
TKGMN=s-t
VBRI=d-d^2
VTRK=d-e^2-f^2

b = Operator service center number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

c = Relative position number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

d = Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

e = Digital line and trunk unit (DLTU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

f = Digital facility interface number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

g = Digital channel number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

h = The DN associated with the port. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual. This parameter can only be used to identify channels associated with DSLs.

i = Protocol handler (PH) channel group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

j = PH channel group member number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

k = Integrated services line unit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

l = Line group controller number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

m = Line card number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

n = Multi-line hunt group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

o = Multi-line hunt group member number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

p = Logical port number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
q = Data link relative group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

r = Data link relative member number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

s = Trunk group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

t = Trunk group member number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

u = Integrated digital carrier unit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

v = Remote terminal (RT) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

w = RT line number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

x = Primary/protection identifier. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

y = Channel type (valid for LEVEL2 and PER requests when using LCEN line identification and for DN/MLHG line identification when the line supports packet switching common DN). Valid value(s):
   B1 = Channel B1.
   D  = D-channel.

Note: The request will be rejected when the channel type is specified, the line is provisioned for on-demand packet service, and both B-channels are available to be used by the on-demand packet service. In this case, there is no direct relationship between the on-demand packet service and a B-channel. Using channel type for LEVEL1 requests is invalid.

z = Reset option. PER's are reset without regard to time ranges specified on the input request line.
The counters are not cleared unless the reset or silent reset option is included in the input request.
Valid value(s):
   RESET = Reset error counts and clear PER tables. Before the reset, requested data will be sent to the receive-only printer (ROP).
   SRESET = Silently reset error counts. Reset error counts and clear PER tables, but do not report present values.

a = The maximum number of PERs, per DSLGM, to be included in the report. The PERs retrieved are the last PERS within the specified time period.

b = Start of time period, in the form hours-minutes-seconds.

c = SM number or the lower limit of a range of SM numbers. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

d = Upper limit of a range of SM numbers. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
e\(^1\) = End of time period, in the form hours-minutes-seconds.

f\(^1\) = Count specifier. Valid value(s):
  \begin{itemize}
    \item ALL = All of the above counts.
    \item CURR = Current hour, interval, and day counts (default).
    \item DAY = Current and previous day counts.
    \item DISK = Report data stored in disk file. This command accepts two line identifications:
      \begin{itemize}
        \item 1 = SM line identification.
        \item 2 = Single line identification.
      \end{itemize}
    \item HIST = Recent interval history.
    \item HOUR = Current and previous hourly line card counts.
    \item INT = Current and previous interval counts.
    \item PREV = Previous hour, interval, and day counts.
  \end{itemize}

g\(^1\) = Channel unit(s) for which current and interval counts are sought. If the CU option is not followed by a specific channel unit number (that is, CU only), then counts for all populated channel units will be printed. Due to the amount of time required to collect data for a CU, this option is only allowed for single-port ALE requests.

h\(^1\) = The PKTDN associated with the port. This parameter can only be used to identify channels associated with DSLs.

i\(^1\) = Integrated service line unit 2 (ISLU2) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

j\(^1\) = Line board number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

k\(^1\) = Line circuit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

l\(^1\) = Digital networking unit - synchronous optical network (SONET) (DNU-S) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

m\(^1\) = Data group (DG) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

n\(^1\) = Synchronous transport signal (STS) facility number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

o\(^1\) = Virtual tributary group (VTG) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

p\(^1\) = Digital signal level 0 (DS0) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

q\(^1\) = Packet switching unit (PSU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

r\(^1\) = PSU shelf number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

s\(^1\) = PSU channel group number. Refer to the APP:RANGES appendix in the Appendixes section of
the Input Messages manual.

\( t^1 \) = Line group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

\( u^1 \) = Access interface unit (AIU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

\( v^1 \) = AIU pack number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

\( w^1 \) = AIU circuit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

\( x^1 \) = SONET termination equipment (STE) facility number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

\( y^1 \) = Virtual tributary member (VTM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

\( z^1 \) = Peripheral control and timing (PCT) line and trunk unit (PLTU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

\( a^2 \) = PCT facility interface (PCTFI) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

\( b^2 \) = Tributary number (T1FAC). Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

\( c^2 \) = Channel number (CHAN). Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

\( d^2 \) = Virtual BRI line number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

\( e^2 \) = Virtual trunk facility number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

\( f^2 \) = Virtual trunk channel number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

\( g^2 \) = ATM LINK unit number.

\( h^2 \) = Virtual connection identifier (VCID). Refer to a PVC on a given PSU ATM link.

4. SYSTEM RESPONSE

\( \text{NG} \) = No good. This request was not recognized, or was not acceptable. May also include:
- ALE FEATURE NOT LOADED = The ALE feature is not loaded in the switch software configuration.
- COMMUNICATION FAILURE = A system error has occurred. Refer to the TECHNICAL ASSISTANCE portion of the INTRODUCTION section of the Input Messages manual.
- PROCESS CREATION FAILURE = A system error has occurred. Refer to the TECHNICAL
ASSISTANCE portion of the INTRODUCTION section of the Input Messages manual.

PF = Printout follows. The request has been accepted and is followed by the EXC:ALE output message.

RL = Retry later. May also include:
   - ALE ACTIVE = Only one ALE session may be requested at a time. Wait for completion or stop ALE manually.
   - AM IN MIN MODE = The AM is in minimum operation mode.

5. REFERENCES

Input Message(s):

ALW:ALE
INH:ALE
OP:ALE
STP:ALE

Output Message(s):

ALW:ALE
EXC:ALE
EXC:ALE-LVL1
EXC:ALE-LVL2
EXC:ALE-PER
INH:ALE
OP:ALE
REPT:ALE-LEVEL1

Input Appendix(es):

APP:RANGES

Other Manual(s):
235-105-110 System Maintenance Requirements and Tools
235-105-220 Corrective Maintenance
235-600-755 Protocol Error Record Descriptions
**1. PURPOSE**

Requests that automatic line evaluation (ALE) provide performance monitoring error count information and protocol error histories on integrated services digital network (ISDN) protocol channels. ALE can be requested for an individual ISDN protocol channel [such as, digital subscriber line (DSL)], a DSL group, or an entire switching module (SM). However, only one user-requested ALE can be in progress at a time. Line evaluation may be specified to include level 1 and level 2 error counts and protocol error records (PERs). Refer to the Protocol Error Record Descriptions manual for additional information about a specific PER.

Level 1 applies to U-interface digital subscriber lines (U-DSLs) and retrieves physical layer error counts stored in the integrated services line unit (ISLU or ISLU2) U-card termination or the integrated digital carrier unit (IDCU) TR303 U-card terminations. Some additional error counts are available for ANSI® U-cards; current (CURR) hour, previous (PREV) hour, hour (HOUR), interval (INT), and day (DAY) counts, as well as the history (HIST) for the last eight intervals. U-DSLs equipped with channel units (CUs) make available the current and previous interval counts using the CU option.

Level 1 also applies to basic rate interface transmission extension (BRITE) channel units for interfaces supported by ANSI® U-cards. The CU option must be specified in the input message in order to retrieve or reset the error counts on these channel units. For interfaces that do not support or have no equipped channel units, the CU option will have no effect on the retrieval of data.

Level 2 applies to all ISDN protocol channels and retrieves frame error information stored in the protocol handler (PH). Any of the level 1 or level 2 counts may be reset to zero by using the RESET or SRESET option. Normally only DSLs with either off-normal level 2 counts, or level 1 counts that have exceeded thresholds, are reported. A full report of all DSLs is available by specifying FULL. The FULL option is always implied for level 1 on IDCU terminations.

PER reporting retrieves the protocol error history for an ISDN protocol channel stored in the SMs. The protocol error histories can also be reset using one of the RESET options. In addition, the FROM, TO, and LAST options can be used to retrieve PER histories for specified time periods and for specified counts.

The default request is execution of level 2 and PER reporting.
After the introduction of PCF on PHE2 feature, PER should be able to provide the protocol error histories on A10/A11/ETHERNET protocols on PCF PH. There are two kinds of PERs: level 2 and level 7. Level 2 PER retrieves the ethernet protocol error histories stored in the PH. Level 7 retrieves A10/A11 error histories stored in PH. The are two formats listed below: Format 1 is for ISDN ALE, and Format 2 is for PCF ALE.

2. FORMAT

[1] EXC:ALE,a[,CH=y][,z][,LAST=a1][,FROM=b1b1-b1b1-b1b1][,TO=e1e1-e1e1]. . .
. . .[,LEVEL1=[f1]][,CU=[g1]]][,LEVEL2][,FULL][,PER][,PRINT];

[2] EXC:ALE,i2[,z],PER[,LAST=a1][,FROM=b1b1-b1b1-b1b1]. . .
. . .[,TO=e1e1-e1e1-e1e1][,PRINT];

3. EXPLANATION OF MESSAGE

NOTE: Refer to the Acronym section of the Input Messages manual for the full expansion of acronyms shown in the format.

FULL = For level 1 requests, report counts for all specified line terminations, not just the ones that exceeded a threshold. All IDCU terminations have an implied FULL option for level 1 requests. For level 2 requests, lines with insufficient level 2 error information will also be reported.

LEVEL1 = Evaluate level 1 errors in the ISLU and/or IDCU U-DSL physical layer counters.

LEVEL2 = Evaluate level 2 errors in packet handler counters (default).

PRINT = Send the output to the ROP and switching control center (SCC) as well as to the requesting terminal. The default is to send the output only to the requesting terminal.

a = Line identification. Valid value(s):
AIUEN=d-u1-v1-w1
BST=b-c
DEN=d-e-f-g
DN=h
DNUSEOC=d-l1-v-x
DNUSTMC=d-l1-v-x
DSLGM=d-q1-i-j = The parameters for DSLGM have more latitude than other identifiers. The 4 legal forms in increasing scope are:
DSLGM=sm-psnum-group-member = An individual DSLGM.
DSLGM=sm-psnum-group-ALL = All members of a DSLGM group.
DSLGM=sm-psnum-ALL-ALL = All members of a PSU
DSLGM=sm-ALL-ALL-ALL = All DSLGM on an SM (same as sm= option).
DSLGM=ALL-ALL-ALL-ALL = Entire office.

Any attempt to mix and match the ALL option with the other parameters will result in propagation of the ALL option to the lower order fields. For example:
DSLGM=8-ALL-ALL-7 is transformed to DSLGM=8-ALL-ALL-ALL before it is acted upon.
ATMPP=d-q1-g2-h2
IDCUEOC=d-u-v-x

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b = Operator service center number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

c = Relative position number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

d = Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

e = Digital line and trunk unit (DLTU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

f = Digital facility interface number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

g = Digital channel number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

h = The DN associated with the port. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual. This parameter can only be used to identify channels associated with DSLs.

i = Protocol handler (PH) channel group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

j = PH channel group member number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

k = Integrated services line unit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

l = Line group controller number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
m = Line card number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

n = Multi-line hunt group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

o = Multi-line hunt group member number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

p = Logical port number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

q = Data link relative group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

r = Data link relative member number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

s = Trunk group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

t = Trunk group member number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

u = Integrated digital carrier unit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

v = Remote terminal (RT) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

w = RT line number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

x = Primary/protection identifier. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

y = Channel type (valid for LEVEL2 and PER requests when using LCEN line identification and for DN/MLHG line identification when the line supports packet switching common DN). Valid value(s):
   B1   = Channel B1.
   D    = D-channel.

**NOTE:** The request will be rejected when the channel type is specified, the line is provisioned for on-demand packet service, and both B-channels are available to be used by the on-demand packet service. In this case, there is no direct relationship between the on-demand packet service and a B-channel. Using channel type for LEVEL1 requests is invalid.

z = Reset option. PER's are reset without regard to time ranges specified on the input request line. The counters are not cleared unless the reset or silent reset option is included in the input request. Valid value(s):
   RESET = Reset error counts and clear PER tables. Before the reset, requested data will be sent to the receive-only printer (ROP).
   SRESET = Silently reset error counts. Reset error counts and clear PER tables, but do not
= The maximum number of PERs, per DSLGM, to be included in the report. The PERs retrieved are the last PERS within the specified time period.

b¹ = Start of time period, in the form hours-minutes-seconds.

c¹ = SM number or the lower limit of a range of SM numbers. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

d¹ = Upper limit of a range of SM numbers. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

e¹ = End of time period, in the form hours-minutes-seconds.

f¹ = Count specifier. Valid value(s):
    ALL = All of the above counts.
    CURR = Current hour, interval, and day counts (default).
    DAY = Current and previous day counts.
    DISK = Report data stored in disk file. This command accepts two line identifications. Valid value(s):
    — SM line identification or,
    — Single Line identification.
    HIST = Recent interval history.
    HOUR = Current and previous hourly line card counts.
    INT = Current and previous interval counts.
    PREV = Previous hour, interval, and day counts.

h¹ = Channel unit(s) for which current and interval counts are sought. If the CU option is not followed by a specific channel unit number (that is, CU only), then counts for all populated channel units will be printed. Due to the amount of time required to collect data for a CU, this option is only allowed for single-port ALE requests.

i¹ = The PKTDN associated with the port. This parameter can only be used to identify channels associated with DSLs.

j¹ = Integrated service line unit 2 (ISLU2) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

k¹ = Line board number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

l¹ = Line circuit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

m¹ = Digital networking unit - synchronous optical network (SONET) (DNU-S) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

m¹ = Data group (DG) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
n^1 = Synchronous transport signal (STS) facility number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

o^1 = Virtual tributary group (VTG) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

p^1 = Digital signal level 0 (DS0) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

q^1 = Packet switching unit (PSU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

r^1 = PSU shelf number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

s^1 = PSU channel group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

t^1 = Line group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

u^1 = Access interface unit (AIU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

v^1 = AIU pack number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

w^1 = AIU circuit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

x^1 = SONET termination equipment (STE) facility number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

y^1 = Virtual tributary member (VTM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

z^1 = Peripheral control and timing (PCT) line and trunk unit (PLTU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

a^2 = PCT facility interface (PCTFI) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

b^2 = Tributary number (T1FAC). Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

c^2 = Channel (CHAN) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

d^2 = Virtual BRI line number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

e^2 = Virtual trunk facility number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

f^2 = Virtual trunk channel number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
\( g^2 \) = ATM LINK unit number.

\( h^2 \) = Virtual connection identifier (VCID). Refer to a PVC on a given PSU ATM link.

\( i^2 \) = PCF IP address. Valid value is:

\[ \text{PCFIP}=j^2-j^2-j^2-j^2 \]

\( j^2 \) = IP address field. Valid value is 0-255.

\( k^2 \) = Optical interface unit (OIU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

\( l^2 \) = Protection group (PG) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

\( m^2 \) = Optical carrier level 3 (OC3) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

\( n^2 \) = Synchronous transport signal level 1 (STS1) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

\( \text{NG} \) = No good. This request was not recognized, or was not acceptable. May also include:
- \( \text{ALE FEATURE NOT LOADED} \) = The ALE feature is not loaded in the switch software configuration.
- \( \text{COMMUNICATION FAILURE} \) = A system error has occurred. Refer to the TECHNICAL ASSISTANCE portion of the INTRODUCTION section of the Input Messages manual.
- \( \text{PROCESS CREATION FAILURE} \) = A system error has occurred. Refer to the TECHNICAL ASSISTANCE portion of the INTRODUCTION section of the Input Messages manual.

\( \text{PF} \) = Printout follows. The request has been accepted and is followed by the EXC:ALE output message.

\( \text{RL} \) = Retry later. May also include:
- \( \text{ALE ACTIVE} \) = Only one ALE session may be requested at a time. Wait for completion or stop ALE manually.
- \( \text{AM IN MIN MODE} \) = The AM is in minimum operation mode.

5. REFERENCES

Input Message(s):

\( \text{ALW:ALE} \)
\( \text{INH:ALE} \)
\( \text{OP:ALE} \)
\( \text{STP:ALE} \)
Output Message(s):

ALW: ALE
EXC: ALE
EXC: ALE-LVL1
EXC: ALE-LVL2
EXC: ALE-PER
INH: ALE
OP: ALE
REPT: ALE-LEVEL1

Input Appendix(es):

APP: RANGES

Other Manual(s):
235-105-110  System Maintenance Requirements and Tools
235-105-220  Corrective Maintenance
235-600-755  Protocol Error Record Descriptions
EXC:AUD-SODD

**Software Release:** 5E14 and later  
**Command Group:** AUDIT  
**Application:** 5  
**Type:** Input

1. PURPOSE

Format 1 restarts a full or incremental static office-dependent data (SODD) audit that was previously executing but was stopped for some reason, provided that the conditions permit it to be restarted.

Format 2 requests the immediate execution of an entity SODD audit depending on the parameters specified. It is also used to restart a previously-executing processor entity SODD audit that has been stopped for some reason. A processor entity audit can be restarted numerous times with this input message, but there are limitations:

- If, after the processor entity audit has been stopped, the same EXC:AUD-SODD input message that was used to start it is re-entered within 24 hours from when the audit was stopped, the audit will resume from the point at which it left off during its previous execution.
- If, after the processor entity audit has been stopped, the same EXC:AUD-SODD input message that was used to start it is re-entered more than 24 hours from when the audit was stopped, the audit will start from the beginning (that is, with the first relation on the processor.) It will not resume from the point at which it left off.
- If, after the processor entity audit has been stopped, a different EXC:AUD-SODD input message is used to start a new processor entity audit, the one that was previously stopped will be abandoned (that is, it can never be restarted.)

Format 3 requests the immediate execution of an SODD entity audit on the business and residential customer services (BRCS) relations by specifying one modular feature type (MFT) or all MFTs on one specific processor.

2. FORMAT

```
[1] EXC:AUD=SODD, {FULL | INCR};

[2] EXC:AUD=SODD, {TN=a | OE="b" | RELATION="c", {AM | CMP | SM=d} | MLHG=e | MEMB=f | TGN=g | MEMB=h | [TORELEASE="w"]};

```

3. EXPLANATION OF MESSAGE

- **AM** = Administration module (AM). The processor on which the relation, as specified in 'c', is to be audited.
- **CMP** = Communications module processor (CMP). The processor on which the relation, as specified in 'c', is to be audited.
- **FULL** = The full SODD audit is to be restarted. The audit will only be restarted provided there are at least 15 minutes remaining in the audit schedule (refer to the SCHED:AUD-SODD input message).
- **INCR** = The incremental SODD audit is to be restarted. The audit will only be restarted provided there are unaudited log files from the last ODD backup.
a = Telephone number to be audited.

b = Office equipment type and number to be audited.

Office equipment types. Valid value(s):

C = Integrated services line unit with Z card (ISLU-Z) analog line card in the form Cdddi jkk.

D = Digital equipment number (DEN) in the form Ddddjmmnn.

E = Access interface unit (AIU) in the form Edddz^1z^1a^2a^2b^2b^2.

G = IDCU gamma equipment number (GEN) in the form Gdddooppqqqq.

I = ISDN digital (U & T card) integrated services line unit equipment number in the form Idddi jjrr.

K = Analog line circuit equipment number (LCKEN) in the form Ldddm^1m^1n^1o^1p^1p^1.

L = Analog line unit equipment number (LEN) in the form Ldddsstuvw.

N = DNU-S equipment number (NEN) in the form Nddde^1f^1u^1g^1q^1r^1i^1i^1i.

O = Optical interface unit equipment number (OIUEN) in the form Odddh^1s^1t^1u^1q^1r^1i^1i^1i.

P = Logical test port (LTP) equipment number in the form Pdddxxx.

R = Recorded announcement function (RAF) equipment number in the form Rdddyzz.

S = Digital carrier SLC® line unit equipment number (SLEN) in the form Sddda^1ppqq.

T = Analog trunk unit equipment number (TEN) in the form Tdddb^1uc^1d^1.

U = Packet switch unit equipment number (PSUEN) in the form Udddj^1k^1l^1l^1zzz.

Office equipment acronyms. Valid value(s):

CHGRP = Channel group.

CKT = Circuit number.

DCHAN = Digital channel.

DCLU = Digital carrier line unit.

DFI = Digital facility interface.

DG = Data group.

DLTU = Digital line and trunk unit.

DNU-S = Digital networking unit - synchronous optical network (SONET).

DS0 = Digital signal level 0.

IDCU = Integrated digital carrier unit.

ISLU = Integrated services line unit.

LBD = Line board.

LC = Line card.

LC = Line circuit.

LCKT = Line circuit.

LG = Line group.

LGDC = Line group controller.

LP = Line pack.

LU = Line unit.

LVL = Level.

OIU = Optical interface unit.

PSU = Packet switch unit.

RT = Remote terminal.

RU = Receive unit.

SM = Switching module.
STS = Synchronous transport signal.
SW = Switch number.
SWG = Switch group.
TU = Trunk unit.
VT = Virtual tributary.
ZLC = Analog line card.

c = Static relation to be audited, or "ALL" if all relations on a specific processor are to be audited (that is, a processor entity audit). Legal, auditable relation names can be found in the Routine Operations and Maintenance Manual. At most, eight characters are required for a relation name. If more than eight are entered, they are considered significant and matched.

d = Switching module (SM) to be audited. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual. The processor on which the relation, as specified in 'c', is to be audited.

e = Multi-line hunt group to be audited. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

f = Member of multi-line hunt group to be audited. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

g = Trunk group number to be audited. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

h = Member of trunk group number to be audited. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

i = Integrated services line unit (ISLU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

j = Line group controller (LGC) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

k = Analog line card (ZLC) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

l = Digital line and trunk unit (DLTU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

m = Digital facility interface (DFI) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

n = Digital channel (DCHAN) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

o = Integrated digital carrier unit (IDCU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

p = Remote terminal (RT) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

q = Line number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
r = Line card (LC) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

s = Line unit (LU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

t = Concentrator. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

u = Switch group (SWG) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

v = Switch (SW) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

w = Level (LVL) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

x = Port number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

y = Receive unit (RU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

z = Channel number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

a\textsuperscript{1} = Digital carrier line unit (DCLU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

b\textsuperscript{1} = Trunk unit (TU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

c\textsuperscript{1} = Group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

d\textsuperscript{1} = Circuit (CKT) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

e\textsuperscript{1} = DNU-S number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

f\textsuperscript{1} = Data group (DG) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

g\textsuperscript{1} = Synchronous transport signal (STS) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

h\textsuperscript{1} = Optical interface unit (OIU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

i\textsuperscript{1} = Digital signal level 0 (DS0) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

j\textsuperscript{1} = Packet switch unit (PSU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
k\textsuperscript{1} = Shelf number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

l\textsuperscript{1} = Channel group (CHGRP) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

m\textsuperscript{1} = Integrated services line unit-2 (ISLU-2) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

n\textsuperscript{1} = Line group (LG) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

o\textsuperscript{1} = Line board (LBD) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

p\textsuperscript{1} = Line circuit (LCKT) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

q\textsuperscript{1} = Virtual tributary 1.5 group (VTGRP) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

r\textsuperscript{1} = Virtual tributary 1.5 member (VTMEM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

s\textsuperscript{1} = Protection group (PG) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

t\textsuperscript{1} = Optical carrier - level 3 (OC3) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

u\textsuperscript{1} = SONET terminating equipment (STE) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

v\textsuperscript{1} = STS - level 1 (STS1) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

w\textsuperscript{1} = Release to which the office will retrofit. The TORELEASE parameter is used exclusively for the on-switch hardware check audit. Refer to the Switch Software Release Retrofit Procedures manual for valid selections.

x\textsuperscript{1} = Name of MFT to be audited or "ALL" if all MFTs are to be audited. Valid value(s):

ALL = All modular feature types.
AC = LASS Automatic callback.
ACB = Auto-call-back calling.
ACCT = Account code.
ACSR = Automatic customer station rearrangement.
ACTR = Attendant control.
AR = LASS automatic recall.
ARS = Automatic route selection.
ASI = Advanced service interface.
ASPN = Advanced services platform - non-call.
ASPO = Advanced services platform originating.
ASPT = Advanced services platform terminating.
ATH = Authorization code.
BCL = Bulk calling line identification.
CFW = Call forwarding.
COT = Customer originated trace.
CPI = CPN features.
CWT = Call waiting.
DISP = Display features.
DR = Distinctive ringing.
EDS = Electronic dictionary services.
HI = Home intercom single line variety.
ICM = ISDN intercom.
ID = Individualized dialing.
LID = Line identification features.
MDR = Message detail recording.
MDS = Message desk service.
MWY = Multi-way calling.
PFA = Private facility access.
PP = Precedence and preemption.
PUO = Pick up originating.
PUT = Pick up terminating.
RND = Redirecting number delivery.
SC = Speed calling.
SCA = Selective call acceptance.
SCF = Selective call forwarding.
SCR = Selective call rejection.
SDA = Selective distinctive alert.
TGR = Terminal group.
TOD = Time of day.

y = Switching module (SM) being audited. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual. The processor on which the relations associated with the MFT, as specified in ‘x’, are being audited.

z = AIU number to be audited. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

a = Line pack (LP) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual (AIUEN).

b = Line circuit (LC) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual (AIUEN).

4. SYSTEM RESPONSE
OK = The full or incremental SODD audit has been allowed to restart.
PF = Printout follows. May also include:
-OP AUD=SODD MESSAGE FOLLOWS = Followed by an OP:AUD-STATUS or OP:AUD-ERROR output message.
5. REFERENCES

Input Message(s):

STP : AUD-SODD
OP : AUD-ERRLOG
OP : AUD-SODD

Output Message(s):

OP : AUD-STATUS
OP : AUD-ERROR

Input Appendix(es):

APP : RANGES

Other Manual(s):
235-105-210  Routine Operations and Maintenance
235-105-10x  Software Release Retrofit Procedures
EXC:BICCBMOVE

Software Release: 5E16(1) and later
Command Group: TRKLN
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Execute a BICC CIC block reallocation process. This request will redistribute BICC CIC blocks among BICC CIC enabled SM-2000s. Refer to RC/V View 5.70 for additional information.

WARNING: This request can not be run during a retrofit and only one BICCBMOVE request can be run at a time.

Formats 1 is used to distribute BICC CIC blocks to newly defined BICC SMs (destination SM) from previously defined BICC SMs (source SM).

Formats 2 is used to remove BICC CIC blocks from previously defined BICC SMs.

Formats 3 is used to move a single BICC CIC block from its current SM to another SM.

2. FORMAT

[1] EXC:BICCBMOVE,ADDSM,SRC=b[],b][,b][[,CAMP=c]. . .[,KILL=d]][[,UCL]]

[2] EXC:BICCBMOVE,DELSM,SRC=b[],b][,b][[,CAMP=c][[,UCL]]

[3] EXC:BICCBMOVE,MOVE,BGMN=e-f,DEST=b[],b][,b][[,CAMP=c][[,UCL]]

3. EXPLANATION OF MESSAGE

a = Source switching module (SM). Valid value(s):
   SM number = SM number(s). Refer to RC/V View 5.70.
   ALL = All SMs. Refer to RC/V View 5.70.

b = Destination SMs. Valid value(s):
   SM number = SM number(s). Refer to RC/V View 5.70.
   ALL = All SMs. Refer to RC/V View 5.70.

c = Campon time (minutes). This is a definition of how long calls can remain active. This field is used in conjunction with the KILL parameter. If CAMP is not specified, the value found in RC/V View 8.1 will be used.

d = Kill indicator. This parameter is used in conjunction with the CAMP parameter. If KILL is not specified, the value found in RC/V View 8.1 will be used. Valid value(s):
   N = Do not kill calls at the end of campon time.
   Y = Kill calls at the end of campon time.

e = BICC group number. BICC groups must have been defined previously.
= BICC group member range. The member range must represent exactly one BICC CIC block (that is, BGMN=7000-0&&127). The range of a CIC BICC block is 128 (i.e. 0&&127, 128&&255, etc.).

4. SYSTEM RESPONSE

NG = No Good. The request has been denied. May also include:
- INVALID SOURCE SM’S = SRCSM field contains invalid SMs.
- INVALID DESTINATION SM’S = DESTSM field contains invalid SMs.
- FOR ADDSM, DESTINATION SM(S) MUST BE SPECIFIED = EXC:BICCBMOVE,ADDSM must specify destination SMs.
- FOR DELSM, SOURCE SM(S) MUST BE SPECIFIED = EXC:BICCBMOVE,DELSM must specify source SMs.
- INVALID MEMBER RANGE = BGMN field contains an invalid member range.
- MEMBER RANGE MUST BE ONE CIC BLOCK = BGMN member range must represent one BICC CIC block (128 CIC’s).
- BICC GROUP DOES NOT EXIST = BGMN bicc group does not exist.
- BICC GROUP MEMBERS DO NOT EXIST = BGMN member range (BICC CIC block) does not exist.
- ONLY ONE DESTINATION SM CAN BE ENTERED = EXC:BICCBMOVE,MOVE can only specify one destination SM.
- SOURCE SM’S AND DESTINATION SM’S MUST BE UNIQUE = An SM cannot be in both the DESTSM and SRCSM fields.
- SOURCE SM’S MUST BE UNIQUE = An SM cannot appear twice in the SRCSM field.
- DESTINATION SM’S MUST BE UNIQUE = An SM cannot appear twice in the DESTSM field.
- SOURCE SM’S MUST BE DEFINED ON RC/V 5.70 = SMs in the SRCSM field must be previously defined on RC/V View 5.70.
- DESTINATION SM(S) MUST HAVE INH DIST SET TO 'N' ON RC/V 5.70 = SMs in the DESTSM field must have INH DIST set to "N" on RC/V View 5.70.
- DESTINATION SM(S) MUST BE DEFINED ON RC/V 5.70 = SMs in the DESTSM field must be previously defined on RC/V View 5.70.
- FOR DELSM=ALL, AT LEAST 1 SM2K MUST HAVE INH DIST SET TO 'N' ON RC/V 5.70 = DESTSM=ALL must have at least one SM on RC/V View 5.70 has INH DIST set to N.
- NOT ENOUGH ROOM TO MOVE BICC CIC BLOCKS = There is no room for BICC CIC blocks for request.
- FOR ADDSM, BICC CIC BLOCKS CANNOT EXIST ON DESTINATION SM(S) = EXC:BICCBMOVE,ADDSM must have SMs in DESTSM with no BICC CIC blocks.

PF = Printout Follows. The request has been accepted. Followed by the EXC:BICCBMOVE output message.

RL = Retry Later. May also include:
- CIC ALLOCATION PROCESS ALREADY RUNNING = EXC:BICCBMOVE is currently running.
- BICC CIC BLOCKS DO NOT EXIST IN OFFICE = No BICC CIC blocks exist in the office.
- AN SM2K IS UNAVAILABLE = An SM is currently unavailable.

5. REFERENCES
Input Message(s):

OP:BICCBMOVE

Output Message(s):

EXC:BICCBMOVE
OP:BICCBMOVE

RC/V View(s):
5.70 CIC DISTRIBUTION
8.1 OFFICE PARAMETERS
EXC:BICCCQ

Software Release: 5E15 and later
Command Group: CCS
Application: 5
Type: Input

1. PURPOSE

Executes a bearer independent call control (BICC) call instance code (CIC) query (BQ) request. These requests locate and optionally correct inconsistencies between near-end and far-end call processing and maintenance states of BICC CICs.

Inconsistencies are corrected by default, but can be inhibited (refer to variable 'a' for details). If requested, detailed output reports with per-BICC CIC status will be displayed (refer to variable 'd' for details). Concurrent outgoing BQ requests are restricted by specific rules:

When an office-wide BQ request is running, no other BQ request may be active. This includes automatic and demand BQ requests.

Up to four concurrent non-office-wide BQ requests can be active in the office.

BQ requests cannot be run concurrently with the same originating point code (OPC)- destination point code (DPC) assignment. This restriction applies to all OPC-DPC, BICC group (BG) and BICC group member number (BGMN) requests. For example, a BG request will be denied if another BG, OPC-DPC or BGMN request is active for the OPC-DPC provisioned for that requested BG.

Format 1 is used to initiate a BICC CIC query process on every provisioned BICC CIC in the office. The office-wide request always produces shortened output.

Format 2 is used to initiate a BICC CIC query process on every provisioned BICC CIC with the specified OPC-DPC route. Selectable output message report types are SHORT and LONG, with FORM=SHORT being the default.

Format 3 is used to initiate a BICC CIC query process on every member in the specified BG. Selectable output message report types are SHORT and LONG. FORM=SHORT is the BG default.

Format 4 is used to initiate a BICC CIC query process specifying a BGMN. Selectable output message report types are SHORT, LONG and EXPANDED, with FORM=EXPANDED being the default.

Note: For a specific BQ request to be executed, the affected BG(s) must be allowed for BQ operation on the recent change and verify (RC/V) view 5.1.

2. FORMAT

[1] EXC:BICCCQ,OFFICE[,CORRECT=a];
[2] EXC:BICCCQ,OPC=b,DPC=c[,CORRECT=a][,FORM=d];
[3] EXC:BICCCQ,BG=e[,CORRECT=a][,FORM=d];
[4] EXC:BICCCQ,BGMN=e-f[&g][,CORRECT=a][,FORM=d];

3. EXPLANATION OF MESSAGE

a = Indication of whether correction should be taken if status mismatches are detected. Valid values:
ALW = Allow (default).
INH = Inhibit.

b = Originating point code number. Refer to the APP:POINT-CODE appendix in the Appendixes section of the Input Messages manual.

c = Destination point code number. Refer to the APP:POINT-CODE appendix in the Appendixes section of the Input Messages manual.

d = The output message report type. Valid values:

SHORT = Matched, mismatched and undetermined summary counts are displayed.
LONG = Matched, mismatched and undetermined summary counts are displayed, in addition to all status combinations encountered that mismatch.
EXPANDED = Matched, mismatched and undetermined summary counts are displayed, in addition to all status combinations. This option will print output for each BICC CIC queried regardless of the far-end statuses returned. However, output is limited to ranges spanning 128 CICs or less.

Note: LONG or EXPANDED output is printed only for CICs where a far-end CIC status has been received from the far-end.

e = BICC group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

f = BICC group member number or lower limit of a range of BICC group member numbers. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

g = Upper limit of a range of BICC group member numbers. If this value exceeds the maximum BICC group member number in the office, it will be adjusted to that maximum. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

NG = No good. The request has been denied. May also include:
- BQ INHIBITED FOR THIS BG = BICC CIC query is not allowed for this BICC GROUP. Refer to RC/V view 5.1.
- BQ INVALID FOR BICC SERVICE GRPS = BICC CIC query is not allowed for a BICC GROUP that is defined as a service group.
- DATABASE ERROR = An unrecoverable database error has occurred.
- INVALID BICC GROUP = The target BICC GROUP is not equipped.
- INVALID BG MEMBER NUMBER OR RANGE = The target BICC group member is not equipped, or a range was specified with the same low member and high member, or the range entered conflicts with the FORM option specified.
- INVALID OPC ENTERED = The OPC entered is not a valid opc.
- INVALID DPC ENTERED = The DPC entered is not a valid DPC or the DPC entered is valid but is not paired with the specified OPC.
- INVALID SIGNALING TYPE = The target BICC GROUP is not a BICC CIC GROUP.
- NO BICC CICS ASSIGNED TO OPC/DPC = No BICC CICS are provisioned for the specified OPC-DPC pair.

PF = Printout follows. The request has been accepted. Followed by an EXC:BICCCQ output message.

RL = Retry later. May also include:
- CONFLICTING BQ REQUEST ACTIVE = Another query request associated with the same OPC-DPC pair is already running, or an office-wide query was requested and an office-wide query is already running, or an office-wide query was requested and other types of BQ requests are running.
- FAILED TO CREATE PROCESS = System resources are not available to start the appropriate process needed to execute this input message.
- TOO MANY BQ REQUESTS = There can only be four non-office-wide BQ requests running at the same time.

5. REFERENCES

RC/V View(s):

5.1 (BICC GROUP)

Other Manual(s):
235-200-115  CNI Common Channel Signaling
235-200-116  Signaling Gateway Common Channel Signaling
EXC:BRCS

Software Release: 5E14 and later
Command Group: BRCS
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Allows the user to run the business and residential custom services (BRCS) feature usage audit and remove unused BRCS constructed features from the switch. If executed without parameters, it restores the audit suspended per a user request.

WARNING: Do not run the audit tool during retrofits, as there is a possibility that an installed constructed feature may be removed in error. Do not assign constructed features when run the audit tool is running. The removal of Unused Constructed Features must not occur if any SM is not operational. It is absolutely necessary to wait until all EXC:BRCS requests, currently being in progress, are completed, before retrofit can be started.

2. FORMAT

EXC:BRCS: [AUD=a, FEAT=b[, DELETE=c]];

3. EXPLANATION OF MESSAGE

a = Audit range. Valid value(s):
   ALLF = Audit all features.
   TYPE = Audit selected type of BRCS feature.
   FEAT = Audit one BRCS feature (the DELETE option must be specified).

b = Feature type or name. If variable 'a' equals FEAT, feature name. If variable 'a' equals TYPE, 1-45.
  1 = Reserved.
  2 = Call waiting.
  3 = Call forwarding.
  4 = Terminal group.
  5 = Time of day.
  6 = Multi-way calling.
  7 = Call pickup originating.
  8 = Call pickup terminating.
  9 = Automatic route selection.
 10 = Private facilities access.
 11 = Distinctive ringing.
 12 = Multi-line hunt.
 13 = Automatic call back.
 14 = Modular queuing.
 15 = Precedence and preemption.
 16 = Account code.
 17 = Message detail recording.
 18 = Authorization codes.
 19 = LASS automatic call back.
20 = LASS automatic recall.
21 = LASS customer originated trace.
22 = ISDN automatic customer rearrangement.
23 = Reserved.
24 = Electronic directory service.
25 = Message service system.
26 = Display feature.
27 = Line identification.
28 = ISDN intercom.
29 = Attendant control of voice terminals.
30 = Individual dialing.
31 = Speed calling.
32 = LASS selective call acceptance (CAR).
33 = LASS selective call forwarding.
34 = LASS selective call rejection.
35 = LASS selective distinctive alert.
36 = Calling party number.
37 = Home intercom.
38 = Redirecting number delivery.
39 = Bulk calling line identification.
40 = Advanced service interface.
41 = Advanced service platform originating.
42 = Advanced service platform terminating.
43 = Reserved.
44 = Reserved.
45 = Advanced services platform non-call.

c = Request the feature to be removed. Valid value(s):
  Y = Deletes the feature.
  N = Audits only.

4. SYSTEM RESPONSE

IP = In progress. Followed by the EXC:BRCS output messages.

NG = No good. The request was denied.

5. REFERENCES

Input Message(s):

OP:BRCS-STATUS
STP:BRCS

Output Message(s):

EXC:BRCS
OP:BRCS-STATUS

Other Manual(s):
EXC:CCS

Software Release: 5E14 and later
Command Group: CCS
Application: 5
Type: Input

1. PURPOSE

Requests that the message transfer part (MTP) route verification test (MRVT) be initiated. The requested test is run, and the report is written to the MTCE message class and/or the standard output. Requests that the signaling connection control port (SCCP) routing verification test (SRVT) be initiated.

2. FORMAT

[1] EXC:CCS,MRVT,DPC=a,OPC=b,[STPS=c],[TRACE]

[2] EXC:CCS,SRVT,TT=a,DIGITS=b,OPC=c,[NTSP=d],[TPC=e],[TRACE]

3. EXPLANATION OF MESSAGE

a = Destination point code (DPC) being tested is a nine digit number. Refer to the APP:POINT-CODE appendix in the Appendices section of the Input Messages manual.

b = Origination point code (OPC) that originates test is a nine digit number. Refer to the APP:POINT-CODE appendix in the Appendices section of the Input Messages manual.

c = Max number of signaling point codes to traverse. Refer to the APP:RANGES appendix in the Appendices section of the Input Messages manual. TRACE = Include traces of STPs crossed during the test in the output if the test was a success.

d = Actual number of GTTs allowed before reaching final destination. Refer to the APP:RANGES appendix in the Appendices section of the Input Messages manual.

e = Translation point code to which the initiator should address and send an SRVT message is a nine digit number. If not entered, the default is chosen based on provisioned SCCP data associated with the translation type and digits. Refer to the APP:POINT-CODE appendix in the Appendices section of the Input Messages manual for valid point code formats.

4. SYSTEM RESPONSE

PF = Printout follows. Valid value(s):
- PRINTOUT FOLLOWS = The request has been accepted. Followed by the EXC:CCS-MRVT or EXC:CCS-SRVT output message.

NG = No good. Valid value(s):
- INVALID OPC = The OPC is not associated with any GSM local point code.
- INVALID OPC FORMAT = The OPC is not in the correct ANSI®/AT&T format.
- REQUESTED DPC IS SAME AS OPC = The DPC is the same as the OPC.
- INVALID DPC FORMAT = The DPC is not in the correct ANSI®/AT&T format.
- INVALID OPC The OPC is not associated with any GSM local point code.
- INVALID OPC FORMAT = The OPC is not in the correct ANSI/AT&T format.
- INVALID TPC FORMAT = The translation point code is not in the correct format.
- TPC IS SAME AS OPC = The TPC is the same as the OPC.

RL = Retry later. Valid value(s):
- SM NOT AVAILABLE = The designated GSM is not available due to MIN-MODE, ISOLATION, or INITIALIZATION.
- SM NOT AVAILABLE = The designated GSM is not available due to MIN-MODE, ISOLATION, or INITIALIZATION.

5. REFERENCES

Output Message(s):

EXC:CCS-MRVT

Input Appendix(es):

APP:RANGES
APP:POINT-CODE

Other Manual(s):
235-190-120 Common Channel Signaling Service Features

RC/V View(s):

16.4 (OMAP ROUTE VERIFICATION TEST TIMER PARAMETERS)
**EXC:CCSCQ-A**

**Software Release:** 5E14 only  
**Command Group:** CCS  
**Application:** 5  
**Type:** Input  

1. **PURPOSE**

Execute a circuit query (CQ) request. These requests locate and optionally correct inconsistencies between near-end and far-end call processing and maintenance states of CCS7 trunks.

Inconsistencies are corrected by default, but can be inhibited by using the CORECT=INH option. If requested, detailed output reports with per-circuit status will be displayed. The FORM=LONG option will print all status combinations where a mismatch is detected between the near-end and far-end offices. The FORM=EXPANDED option will print all status combinations encountered. The FORM=SHORT option produces only summary counts of matched, mismatched and undetermined status combinations detected. Concurrent outgoing CQ requests are restricted by specific rules:

- When an office-wide CQ request is running, no other CQ request may be active. This includes automatic and demand CQ requests.
- Up to 4 concurrent non-office-wide CQ requests can be active in the office.
- CQ requests can not be run concurrently with the same OPC-DPC assignment. This restriction applies to all OPC-DPC, TG, and TKGMN requests. For example, TG request will be denied, if another TG, OPC-DPC, or TKGMN request is active for the OPC-DPC provisioned for that requested TG.

Format 1 is used to initiate a circuit query process on every provisioned CCS trunk in the office. The office-wide request always produces shortened output.

Format 2 is used to initiate a circuit query process on every provisioned CCS trunk with the same OPC-DPC route. Selectable output report types are SHORT and LONG, with FORM=SHORT being the default.

Format 3 is used to initiate a circuit query process on every member in the specified TG (trunk group). Selectable output report types are SHORT, LONG, and EXPANDED. FORM=SHORT is the TG default.

Format 4 is used to initiate a circuit query process specifying a trunk group member number (TKGMN). Selectable output report types are SHORT, LONG and EXPANDED, with FORM=EXPANDED being default.

**NOTE:** For a specific input message to execute, the affected TG must be allowed for CQ operation on the 5.1 RC/V view.

2. **FORMAT**

[1] EXC:CCSCQ,OFFICE[],CORRECT=a;  
[2] EXC:CCSCQ,OPC=b,DPC=c[],FORM=d][,CORRECT=a];  
[3] EXC:CCSCQ,TG=e[,FORM=d][,CORRECT=a];  
[4] EXC:CCSCQ,TKGMN=e-f[,FORM=d][,CORRECT=a];

3. **EXPLANATION OF MESSAGE**
a  Indication of whether correction that should be taken if status mismatches are detected. Valid value(s):
ALW    = Allow (default).
INH    = Inhibit.

b  Origination point code number. Refer to the APP:POINT-CODE appendix in the Appendixes section of the Input Messages manual.

c  Destination point code number. Refer to the APP:POINT-CODE appendix in the Appendixes section of the Input Messages manual.

d  The output report type. Valid value(s):
SHORT  = Matched, mismatched and undetermined summary counts are displayed.
LONG   = Matched, mismatched and undetermined summary counts are displayed, in addition to all statuses combinations encountered that mismatch.
EXPANDED = Matched, mismatched and undetermined summary counts are displayed, in addition to all statuses combinations. This report option will print output for each circuit queried regardless of the far-end statuses returned.

e  = Trunk group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

f  = Trunk member number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

NG  = No good. The request has been denied. May also include:
- INVALID OPC or DPC = DPC or OPC is in the wrong format or is not provisioned for any trunk group in the office.
- INVALID SIGNALING TYPE = The target trunk group is not a CCS trunk group.
- INVALID TRUNK GROUP = The target trunk group is not provisioned in the office.
- CQ INHIBITED FOR THIS TG = Circuit query is not allowed for this trunk group. Refer to RC/V view 5.1
- INVALID TG MEMBER = The target trunk member is not equipped.
- DATABASE ERROR = An unrecoverable database error has occurred.

PF  = Printout follows. The request has been accepted. Followed by the EXC:CCSCQ output message.

RL  = Retry later. May also include:
- OPC/DPC or TG REQUEST ALREADY RUNNING = An office-wide query request can only execute if no other CQ requests are running.
- CQ REQUEST ACTIVE ON SAME OPC/DPC = Another query request associated with the same OPC-DPC pair is already running.
- OFFICE REQUEST ALREADY RUNNING = Only one office-wide query request can be executed at any time.
- TOO MANY CQ REQUESTS = There can only be four non-office-wide CQ requests running at the same time.
- TOO MANY PROCESSES ACTIVE = The number of processes that can be run by the ATA process has been reached. Use OP:JOBSTATUS to view the current status.
- FAILED TO CREATE PROCESS = System resources are not available to start the appropriate process needed to execute this input message.

5. REFERENCES

RC/V View(s):

5.1 (TRUNK GROUP)

Other Manual(s):
235-190-120 Common Channel Signaling Service Features
EXC:CCSCQ-B

Software Release: 5E15 and later
Command Group: CCS
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Execute a circuit query (CQ) request. These requests locate and optionally correct inconsistencies between near-end and far-end call processing and maintenance states of CCS7 trunks.

Inconsistencies are corrected by default, but can be inhibited by using the CORRECT=INH option.

If requested, detailed output reports with per-circuit status will be displayed. The FORM=LONG option will print all status combinations where a mismatch is detected between the near-end and far-end offices. The FORM=EXPANDED option will print all status combinations encountered. The FORM=SHORT option produces only summary counts of matched, mismatched and undetermined status combinations detected.

WARNING: When an office-wide CQ request is running, no other CQ request may be active. This includes automatic and demand CQ requests.

Up to 4 concurrent non-office-wide CQ requests can be active in the office.

CQ requests can not be run concurrently with the same OPC-DPC assignment. This restriction applies to all OPC-DPC, TG, and TKGMN requests. For example, TG request will be denied, if another TG, OPC-DPC, or TKGMN request is active for the OPC-DPC provisioned for that requested TG.

Format 1 is used to initiate a circuit query process on every provisioned CCS trunk in the office. The office-wide request always produces shortened output.

Format 2 is used to initiate a circuit query process on every provisioned CCS trunk with the same OPC-DPC route. Selectable output report types are SHORT and LONG, with FORM=SHORT being the default.

Format 3 is used to initiate a circuit query process on every member in the specified trunk group (TG). Selectable output report types are SHORT, LONG, and EXPANDED. FORM=SHORT is the TG default.

Format 4 is used to initiate a circuit query process specifying a trunk group member number (TKGMN). Selectable output report types are SHORT, LONG and EXPANDED, with FORM=EXPANDED being default.

For a specific input message to execute, the affected TG must be allowed for CQ operation on RC/V View 5.1.

2. FORMAT

[1] EXC:CCSCQ,OFFICE[,CORRECT=a];

[2] EXC:CCSCQ,OPC=b,DPC=c[,FORM=d][,CORRECT=a];

[3] EXC:CCSCQ,TG=e[,FORM=d][,CORRECT=a];
3. EXPLANATION OF MESSAGE

a = Indication of whether correction that should be taken if status mismatches are detected. Valid value(s):
   ALW = Allow (default).
   INH = Inhibit.

b = Origination point code number. Refer to the APP:POINT-CODE appendix in the Appendixes section of the Input Messages manual.

c = Destination point code number. Refer to the APP:POINT-CODE appendix in the Appendixes section of the Input Messages manual.

d = The output report type. Valid value(s):
   SHORT = Matched, mismatched and undetermined summary counts are displayed.
   LONG = Matched, mismatched and undetermined summary counts are displayed, in addition to all statuses combinations encountered that mismatch.
   EXPANDED = Matched, mismatched and undetermined summary counts are displayed, in addition to all statuses combinations. This report option will print output for each circuit queried regardless of the far-end statuses returned.

e = Trunk group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

f = Trunk member number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

NG = No good. The request has been denied. May also include:
   - INVALID OPC or DPC = OPC or DPC is in the wrong format or is not provisioned for any trunk group in the office.
   - INVALID SIGNALING TYPE = The target trunk group is not a CCS trunk group.
   - INVALID TRUNK GROUP = The target trunk group is not provisioned in the office.
   - CQ INHIBITED FOR THIS TG = Circuit query is not allowed for this trunk group. Refer to RC/V View 5.1
   - INVALID TG MEMBER = The target trunk member is not equipped.
   - DATABASE ERROR = An unrecoverable data base error has occurred.

PF = Printout follows. The request has been accepted. Followed by the EXC:CCSCQ output message.

RL = Retry later. May also include:
   - OPC/DPC or TG REQUEST ALREADY RUNNING = An office-wide query request can only execute if no other CQ requests are running.
   - CQ REQUEST ACTIVE ON SAME OPC/DPC = Another query request associated with the same OPC-DPC pair is already running.
   - OFFICE REQUEST ALREADY RUNNING = Only one office-wide query request can be executed at any time.
- TOO MANY CQ REQUESTS = There can only be four non-office-wide CQ requests running at the same time.
- TOO MANY PROCESSES ACTIVE = The number of processes that can be run by the ATA process has been reached. Use OP:JOBSTATUS to view the current status.
- FAILED TO CREATE PROCESS = System resources are not available to start the appropriate process needed to execute this input message.
- CNI TO PSU CONVERSION IN PROGRESS = The system is not available due to the processing of CNI to PSU conversion.

5. REFERENCES

Other Manual(s):
235-200-115 CNI Common Channel Signaling
235-200-116 Signaling Gateway Common Channel Signaling

RC/V View(s):
5.1 TRUNK GROUP
EXC:CCSXLATE-A

Software Release: 5E14 only
Command Group: CCS
Application: 5
Type: Input

1. PURPOSE

Initiates the common channel signaling (CCS) translation test (or circuit validation) for a specific CCS7 trunk. Translation testing checks for consistency between near-end office-dependent data (ODD), as well as the following characteristics between near-end (NE) and far-end (FE) offices: double seizure control (DSC), circuit group carrier (CGC), circuit identification name (CIN), and common language location identifier (CLLI).

The following additional fields are displayed for both NE and FE, but not checked for consistency: alarm carrier indicator (ACI), and continuity check indicator (CCI). ACI and CCI consistency is not important to carrying call traffic. Also, DSC is not checked for one-way trunks. The request will not be denied if a call or trunk maintenance activity is in progress on this trunk. Furthermore, it does not impact on any current activity on this trunk.

2. FORMAT

EXC:CCSXLATE, TKGMN=a-b;

3. EXPLANATION OF MESSAGE

a = Trunk group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

b = Trunk member number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

NG = No good. The request has been denied. Valid value(s):
- DATABASE ERROR = Required information could not be obtained from the database.
- INVALID SIGNALING TYPE = The trunk group specified is not a CCS trunk group.
- INVALID TRUNK MEMBER = The trunk member is not provisioned.
- INVALID TRUNK GROUP = The trunk group is not provisioned.
- TRANS TEST INHIBITED FOR THIS TG = Trunk translation test requests have been inhibited by using RC/V View 5.1.

PF = Printout follows. The request has been accepted. Followed by the EXC CCSXLATE output message.

RL = Retry later. Valid value(s) are:
- TOO MANY PROCESSES ACTIVE = The number of processes that can be run by the ATA process has been reached. Use OP:JOBSTATUS to view current status.
- FAILED TO CREATE PROCESS = System resources are not available to start the appropriate process needed to execute this input message.
- SM INACCESSIBLE = The target trunk member's SM is either inaccessible or in min-mode.
- TOO MANY TRANSLATION TESTS RUNNING = There can only be 4 trunk translation requests active at the same time. This limit has been reached.
- **AM OVERLOAD** = AM is experiencing an overload situation.

5. REFERENCES

Output Message(s):

- **EXC:CCSXLATE**

Input Appendix(es):

- **APP: RANGES**

RC/V View(s):

- **5.1 (TRUNK GROUP)**

Other Manual(s):

- **235-190-120 Common Channel Signaling Service Features**
EXC:CCSXLATE-B

Software Release: 5E15 and later

Command Group: CCS

Application: 5

Type: Input

1. PURPOSE

Initiates the common channel signaling (CCS) translation test (or circuit validation) for a specific CCS7 trunk. Translation testing checks for consistency between near-end office-dependent data (ODD), as well as the following characteristics between near-end (NE) and far-end (FE) offices: double seizure control (DSC), circuit group carrier (CGC), circuit identification name (CIN), and Common Language® location identifier (CLLI).

The following additional fields are displayed for both NE and FE, but not checked for consistency: alarm carrier indicator (ACI), and continuity check indicator (CCI). ACI and CCI consistency is not important to carrying call traffic. Also, DSC is not checked for one-way trunks.

The request will not be denied if a call or trunk maintenance activity is in progress on this trunk. Furthermore, it does not impact on any current activity on this trunk.

2. FORMAT

EXC:CCSXLATE,TKGMN=a-b;

3. EXPLANATION OF MESSAGE

a = Trunk group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

b = Trunk member number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

NG = No good. The request has been denied. May also include:
- DATABASE ERROR = Required information could not be obtained from the database.
- INVALID SIGNALING TYPE = The trunk group specified is not a CCS trunk group.
- INVALID TRUNK MEMBER = The trunk member is not provisioned.
- INVALID TRUNK GROUP = The trunk group is not provisioned.
- TRANS TEST INHIBITED FOR THIS TG = Trunk translation test requests have been inhibited by using RC/V View 5.1.

PF = Printout follows. The request has been accepted. Followed by the EXC CCSXLATE output message.

RL = Retry later. May also include:
- TOO MANY PROCESSES ACTIVE = The number of processes that can be run by the ATA process has been reached. Use OP:JOBSTATUS to view current status.
- FAILED TO CREATE PROCESS = System resources are not available to start the appropriate process needed to execute this input message.
- SM INACCESSIBLE = The target trunk member’s SM is either inaccessible or in min-mode.
- TOO MANY TRANSLATION TESTS RUNNING = There can only be 4 trunk translation requests
active at the same time. This limit has been reached.
- **AM OVERLOAD** = AM is experiencing an overload situation.
- **CNI TO PSU CONVERSION IN PROGRESS** = The system is not available due to the processing of CNI to PSU conversion.

### 5. REFERENCES

**Output Message(s):**

`EXC:CCSXLATE`

**Input Appendix(es):**

`APP:RANGES`

**Other Manual(s):**

- 235-200-115  *CNI Common Channel Signaling*
- 235-200-116  *Signaling Gateway Common Channel Signaling*

**RC/V View(s):**

- 5.1  *TRUNK GROUP*
EXC:CO

Software Release: 5E14 and later
Command Group: SFTMGT
Application: 5
Type: Input

1. PURPOSE

Transfers lines from one switching system to another switching system (cutover and cutback).

NOTE: The CUTOVER page of the master control center (MCC) lists the pokes that can be used to perform cutovers and cutbacks.

2. FORMAT

EXC:CO:CMD=a;

3. EXPLANATION OF MESSAGE

a = Type of input message. Valid value(s):
ABORT = Aborts a cutover. The abort must be performed while the cutover is still in progress.
CUT = Activates inactive lines.
CUTBK = Deactivates in-service lines.
ENCBK = Enables the cutover program for cutback.
ENCUT = Enables the cutover program for cutover.

4. SYSTEM RESPONSE

IP = In progress. The request is in progress.
NG = No good. The request is denied.
OK = Good. The request is completed.

5. REFERENCES

Output Message(s):
EXC:CO-SM
EXC:CO-STATUS

MCC Display Page(s):
(CUTOVER)
**EXC:DSTT**

- **Software Release:** 5E14 and later
- **Command Group:** CCS
- **Application:** 5
- **Type:** Input

### 1. PURPOSE

Requests that a direct signaling translation test (DSTT) be initiated. A DSTT is used to verify Common Channel Interoffice Signaling System 6 (CCIS6) translation data for CCIS6 messages sent over low speed links (4.8 kilobytes) in the common channel signaling (CCS) network.

DSTT is not applicable to CCIS6 messages embedded in Common Channel Signaling System 7 (CCS7) messages on high speed links (56 kilobytes).

### 2. FORMAT

```
EXC:DSTT,{INWATS=a|NCD=b|FUNC=c|BNS=d|CCRD=b|CAS=b};
```

### 3. EXPLANATION OF MESSAGE

- **a** = Inward wide area telecommunications service (INWATS) number in the form 800NXX.
- **b** = Network call denial (NCD), customer account services (CAS) or calling card (CCRD) number in the form NPANXX or RAO[0/1]XX. For CAS, this is the first six digits of the individual account number.
- **c** = Function number to be tested. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
- **d** = Billed number screening (BNS) in the form NPANXX.

### 4. SYSTEM RESPONSE

- **NG** = No good. May also include:
  - **CNI NOT AVAILABLE** = The 5ESS® switch can not send the test message. The common network interface (CNI) is not operational or is in overload. Check CNI status and wait 10 minutes before requesting another test.
  - **INVALID INPUT DATA** = The data field is invalid.

- **PF** = Printout follows. The request was received, the test is being executed and the EXC:DSTT output message follows.

- **RL** = Retry later. May also include:
  - **TEST IN PROGRESS** = Another CCS test is in progress. Repeat this test after a reply or time-out for the current test is received.

### 5. REFERENCES

Input Message(s):
TST:BNS
TST:CAS
TST:CCRD
TST:INWATS
TST:NCD
TST:RATE

Output Message(s):

EXC:DSTT
TST:BNS
TST:CAS
TST:CCRD
TST:INWATS
TST:NCD
TST:RATE

Input Appendix(es):

APP:RANGES

Other Manual(s):
235-190-120  Common Channel Signaling Service Features
EXC:ECDAUD

Software Release: 5E14 and later
Command Group: MAINT
Application: 5
Type: Input

1. PURPOSE
Requests the immediate execution of the on-switch equipment configuration database (ECD) audit to audit the data in the root ECD database. Activation of the incore database should be performed prior to executing the audit.

2. FORMAT
EXC:ECDAUD;

3. EXPLANATION OF MESSAGE
No variables.

4. SYSTEM RESPONSE
PF = Printout follows. Followed by the EXC:ECDAUD output message.

5. REFERENCES
Input Message(s):

STOP:ECDAUD
INH:ECDAUD
ALW:ECDAUD
SCHED:ECDAUD
OP :ECDAUD

Output Message(s):

EXC:ECDAUD

Other Manual(s):
235-100-125  System Description
235-105-210  Routine Operations and Maintenance Manual
EXC:ENVIR-PROC
Software Release: 5E14 and later
Command Group: ADMIN
Application: 5,3B
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE
Requests that a task be executed as either a kernel or supervisor process.

WARNING: Incorrect use of this message can cause unpredictable system damage or degradation. It should not be used without expert technical assistance unless it is part of a prescribed procedure.

2. FORMAT
EXC:ENVIR,PROC,FN="a";

3. EXPLANATION OF MESSAGE
a = Pathname of the file to be executed.

4. SYSTEM RESPONSE
PF = Printout follows. Followed by the EXC:ENVIR-PROC output message.

5. REFERENCES
Input Message(s):
   EXC:ENVIR-UPROC
   OP:ST-PROC

Output Message(s):
   EXC:ENVIR-PROC

Other Manual(s):
235-105-210 Routine Operations and Maintenance

MCC Display Page(s):
(CRAFT FM 01)
EXC:ENVIR-UPROC

Software Release: 5E14 and later
Command Group: ADMIN
Application: 5,3B
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Requests that a task be executed as a user process.

WARNING: Incorrect use of this message can cause unpredictable system damage or degradation. It should not be used without expert technical assistance unless it is part of a prescribed procedure.

2. FORMAT

EXC:ENVIR,UPROC,FN="a",ARGS=b[,BKG][,OPL=c];

3. EXPLANATION OF MESSAGE

BKG = Run the process in the background, freeing the terminal for further input messages. The default is foreground execution.

a = Full pathname of the file to be executed.

b = A single argument or a list of up to six arguments for the user process. Any argument containing lowercase letters or special characters must be enclosed in quotation marks.

c = Number of segments to be output; specified in decimal. The default is 10 segments; maximum is 999. Each segment has a maximum size of 1000 bytes or 20 lines.

4. SYSTEM RESPONSE

PF = Printout follows. Followed by the EXC:ENVIR-UPROC output message.

5. REFERENCES

Input Message(s):

EXC:ENVIR-PROC
OP:ST-PROC

Output Message(s):

EXC:ENVIR-UPROC

Other Manual(s):
235-105-210  Routine Operations and Maintenance
EXC:FACR

Software Release: 5E14 and later
Command Group: FHADM
Application: 5
Type: Input

1. PURPOSE

Requests that the feature activation counting and reconciliation (FACR) audit be started. If the request occurs
between the hours of 6:00 p.m. and 6:00 a.m. the audit begins immediately. Requests made outside of the 6:00 p.m.
to 6:00 a.m. time frame are scheduled for execution at 6:00 p.m.

2. FORMAT


3. EXPLANATION OF MESSAGE

OFC = Request for an official run of the FACR audit.
UNOFC = Request for an unofficial run of the FACR audit. The output from the audit is restricted for use by
the service provider only.
DETAIL = Request for an detail report for a single network systems engineering practice (NSEP) value.
APPL= = Request to run a FACR special application audit.
a = NSEP value supplied by FACR coordinator.
b = APPLICATION name of special audit to run.

4. SYSTEM RESPONSE

PF = Printout follows. Followed by the EXC:FACR output message.

5. REFERENCES

Input Message(s):

OP:FACR
STP:FACR

Output Message(s):

EXC:FACR
EXC:GKCCR

**Software Release:** 5E14 and later  
**Command Group:** ODD  
**Application:** 5  
**Type:** Input

1. **PURPOSE**

Requests execution of a generated key collection and compression routine (GKCCR) in the specified processors. The routine will collect any unused generated key tuples and place them on the free lists for the appropriate relation. If the relation can reduce the amount of office-dependent data (ODD) memory allocated to it, the generated key tuples will be compressed into fewer data pages. Either specific processors can be specified or the GKCCR will be executed on every processor.

An EXC:GKCCCR output message will report the status of the GKCCR request unless the GKCCR is aborted using the ABT:GKCCCR input request, in which case an ABT:GKCCCR output message occurs instead.

2. **FORMAT**

EXC:GKCCCR[,SM=a[&&b]][,CMP=c[-{PRIM|MATE}]][,AM];

3. **EXPLANATION OF MESSAGE**

**NOTE:** Refer to the Acronym section of the Input Messages manual for the full expansion of acronyms shown in the format.

- **MATE** = Mate CMP.  
- **PRIM** = Primary CMP.  
- **a** = Switching module (SM) number or the lower limit of a range of SM numbers.  
- **b** = Upper limit of a range of SM numbers.  
- **c** = Communications module processor (CMP) number.

4. **SYSTEM RESPONSE**

- **NG** = No good. The input request is invalid. May also include:
  - **NO VALID PROCESSOR SPECIFIED** = Specific processor(s) were specified in the input request line, but no requested processor was operational. If specific processors are to be requested, at least one requested processor must be operational.

- **PF** = Printout follows. The request was accepted. EXC:GKCCCR output messages for each specified processor follow. REPT:GKCCCR output messages are produced if, during the execution of the GKCCR, data or system errors are discovered.

- **RL** = Retry later. System resources could not be allocated to process the request.

5. **REFERENCES**

Input Message(s):
ABT: GKCCR
ALM: GKCCR
INH: GKCCR

Output Message(s):

ABT: GKCCR
EXC: GKCCR
REPT: GKCCR

Other Manual(s):
235-105-220  Corrective Maintenance
235-105-210  Routine Operations and Maintenance
EXC:GRC
Software Release: 5E14 and later
Command Group: RCV
Application: 5
Type: Input

1. PURPOSE
Requests that a global recent change (GRC) operation that is halted be restarted. This input message restarts the GRC process that was halted using the STP:GRC input message. The REPT:GRC input message can be used to determine which job was halted.

2. FORMAT
EXC:GRC;

3. EXPLANATION OF MESSAGE
No variables.

4. SYSTEM RESPONSE
PF = Printout follows. Followed by the GRC:STATUS output message indicating the beginning of the operation.

NG = No good. The request was denied. The GRC:ERROR output message will provide the reason for the failure.

5. REFERENCES
Input Message(s):
STP:GRC
REPT:GRC
SCHED:GRC

Output Message(s):
GRC:ERROR
GRC:STATUS

Other Manual(s):
Where (x) is the release-specific version of the specified manual.
235-118-251 Recent Change Procedures
235-118-25x Recent Change Reference
235-070-100 Administration and Engineering Guidelines
**EXC:GRCPASSWORD**

**Software Release:** 5E14 and later  
**Command Group:** AUTH  
**Application:** 5  
**Type:** Input

1. **PURPOSE**

Requests that the global recent change (GRC) password for the given clerk identifier be updated or deleted.

2. **FORMAT**

```
EXC:GRCPASSWORD,CLERKID=a,{PASSWD=b|DELETE};
```

3. **EXPLANATION OF MESSAGE**

<table>
<thead>
<tr>
<th>DELETE</th>
<th>= Delete the password.</th>
</tr>
</thead>
<tbody>
<tr>
<td>a</td>
<td>= Clerk identifier assigned to GRC clerk.</td>
</tr>
<tr>
<td>b</td>
<td>= New password for GRC clerk.</td>
</tr>
</tbody>
</table>

4. **SYSTEM RESPONSE**

<table>
<thead>
<tr>
<th>OK</th>
<th>= Good. The input message has been accepted indicating that the action will be taken.</th>
</tr>
</thead>
<tbody>
<tr>
<td>NG</td>
<td>= No good. The request was denied. The GRC:ERROR output message will provide the reason for the failure.</td>
</tr>
</tbody>
</table>

5. **REFERENCES**

Input Message(s):

```
REPT:GRC
```

Output Message(s):

```
GRC:ERROR
```

Other Manual(s):

Where (x) is the release-specific version of the specified manual.

- 235-118-251 *Recent Change Procedures*
- 235-118-25x *Recent Change Reference*
- 235-070-100 *Administration and Engineering Guidelines*
EXC:LIT

**Software Release:** 5E14 and later  
**Command Group:** TRKLN  
**Application:** 5  
**Type:** Input

1. **PURPOSE**

Requests that line insulation testing (LIT) be initiated, altered or verified.

Format 1 initiates a manually requested demand LIT (DLIT) (S) to test a single line or a group of lines.

Format 2 alters the parameters (Q) for the next automatic LIT (ALIT) session.

Format 3 verifies the parameters (V) for the next ALIT session.

2. **FORMAT**

   [1] EXC:LIT:OPT=S[,TYP=a][,RG=b],g 1;
   
   [2] EXC:LIT:OPT=Q[,TYP=a][,RG=b][,TMO=t][,TM=u-v];
   

3. **EXPLANATION OF MESSAGE**

   a  
   = Type of line insulation test to perform. Valid value(s):
     F  = Foreign potential (FEMF) test.
     G  = General. Performs tip and ring-to-ground (TRG), short circuit and ring-to-ground (SRG), and FEMF test.
     S  = SRG test.
     T  = TRG test.

   b  
   = Code denotes threshold resistance that electrical leakage on the line will be compared to. The resistance for each range group depends on the ALIT circuit pack, (TN328, TN329, or TN330) to be used. Depending upon the circuit pack to be used, enter the letter (A - D) that corresponds to the threshold resistance desired for the specific circuit pack to be used (refer to Exhibit A).

<table>
<thead>
<tr>
<th>CODE</th>
<th>TN328</th>
<th>TN329</th>
<th>TN330</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>80K ohms</td>
<td>80K ohms</td>
<td>320K ohms</td>
</tr>
<tr>
<td>B</td>
<td>160K ohms</td>
<td>320K ohms</td>
<td>1.25M ohms</td>
</tr>
<tr>
<td>C</td>
<td>640K ohms</td>
<td>1.25M ohms</td>
<td>2.5M ohms</td>
</tr>
<tr>
<td>D</td>
<td>2.5M ohms</td>
<td>5M ohms</td>
<td>5M ohms</td>
</tr>
</tbody>
</table>

   c  
   = Directory number of the line to be tested.

   d  
   = Member number of the multi-line hunt group (MLHG) or line time slot bridging (LTSB) line. For MLHG the DN specified must be the main DN for the group and the member number specifies which member of the group will be tested. For LTSB a member number of 1 will test the lead line and a member number of 2 will test the associate line. If no member number is specified, for 1-DN LTSB, the lead line will be tested. If no member number is specified, for 2-DN LTSB, the line associated with the DN entered will be tested.

   e  
   = Multi-line hunt group number of the line to be tested. Refer to the APP:RANGES appendix in the
Appendixes section of the Input Messages manual.

f = Multi-line hunt member number. Refer to the APP: RANGES appendix in the Appendixes section of the Input Messages manual.

g = Switching module (SM) number. Refer to the APP: RANGES appendix in the Appendixes section of the Input Messages manual.

h = Line unit number. Refer to the APP: RANGES appendix in the Appendixes section of the Input Messages manual.

i = Grid number. Refer to the APP: RANGES appendix in the Appendixes section of the Input Messages manual.

j = Board number (LU1, LU2, or LU3). Refer to the APP: RANGES appendix in the Appendixes section of the Input Messages manual.

k = Switch number. Refer to the APP: RANGES appendix in the Appendixes section of the Input Messages manual.

l = Level number. Refer to the APP: RANGES appendix in the Appendixes section of the Input Messages manual.

m = Digital carrier line unit number. Refer to the APP: RANGES appendix in the Appendixes section of the Input Messages manual.

n = Remote terminal (RT) number. Refer to the APP: RANGES appendix in the Appendixes section of the Input Messages manual.

o = RT line number. Refer to the APP: RANGES appendix in the Appendixes section of the Input Messages manual.

p = Integrated services line unit number. Refer to the APP: RANGES appendix in the Appendixes section of the Input Messages manual.

q = Line group number. Refer to the APP: RANGES appendix in the Appendixes section of the Input Messages manual.

r = Line card number. Refer to the APP: RANGES appendix in the Appendixes section of the Input Messages manual.

s = IDCU number. Refer to the APP: RANGES appendix in the Appendixes section of the Input Messages manual.

t = Maximum duration for the next automatic LIT. Valid value(s):
   0 = Suppresses the next ALIT.
   1-8 = Number of hours that ALIT is to be run (or until all testable lines have been tested).

u = Hours of 24-hour clock time when ALIT will start.

v = Minutes of 24-hour clock time when ALIT will start.

w = Integrated services line unit 2 (ISLU2) number. Refer to the APP: RANGES appendix in the Appendixes section of the Input Messages manual.
x = Line board number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

y = Line circuit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

z = Line group controller number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

a¹ = Access interface unit equipment number (AIUEN). Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

b¹ = Access interface unit (AIU) pack number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

c¹ = AIU circuit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

d¹ = Digital network unit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

e¹ = Remote terminal (RT) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

f¹ = RT line number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

g¹ = Valid value(s):

<table>
<thead>
<tr>
<th>AIUEN=g-a¹-b¹-c¹</th>
<th>LEN=g-h-i-j-k-l</th>
</tr>
</thead>
<tbody>
<tr>
<td>DN=c[-d]</td>
<td>MLHG=e-f</td>
</tr>
<tr>
<td>ILEN=g-s-n-o</td>
<td>SLEN=g-m-n-o</td>
</tr>
<tr>
<td>INEN=g-d¹-e¹-f¹</td>
<td></td>
</tr>
<tr>
<td>LCEN=g-p-z-r</td>
<td></td>
</tr>
<tr>
<td>LCKEN=g-w-q-x-y</td>
<td></td>
</tr>
</tbody>
</table>

### 4. SYSTEM RESPONSE

- **NG** = No good. The message was not recognized. Valid value(s):
  - DATA OUT OF RANGE = The message was not recognized because the parameter value specified in ALIT request is invalid.
  - INVALID LINE = The message was not recognized because the line identified in DLIT request is invalid.
  - INVALID OPTION SET = The message was not recognized because the option set specified in the request is invalid.

- **PF** = Printout follows. The request has been accepted and is in progress. Followed by the EXC:LIT output message.

- **RL** = Retry later. The request has been denied. Valid value(s):
  - COMMUNICATION FAILURE = The DLIT request has been denied because the request could not be delivered in the system.
  - DEMAND LIT ACTIVE = The DLIT request has been denied because another DLIT session is currently executing.
  - PROCESS CREATION FAILURE = The DLIT request has been denied because a controlling
process could not be created.
- RESOURCE SHORTAGE = The request has been denied because of a resource shortage.
- SYSTEM PROBLEM = The request has been denied because of a system problem such as the administrative module (AM) being in minimum (MIN) mode.

5. REFERENCES

Input Message(s):

DGN:ALIT
DGN:MA
EX:ALIT
EX:MA
OP:LIT
STP:LIT

Output Message(s):

DGN:ALIT
DGN:MA
EX:ALIT
EX:MA
EXC:LIT
EXC:LIT-ABT
EXC:LIT-COMPL
EXC:LIT-NOT
EXC:LIT-SINGLE
EXC:LIT-SKIPPED
EXC:LIT-STARTED
EXC:LIT-STOPPED
EXC:LIT-VERIFY
OP:LIT
STP:LIT-COMPL

Input Appendix(es):

APP:RANGES
EXC:MRVT-PC

**Software Release:** 5E14 and later
**Command Group:** CCS
**Application:** 5
**Type:** Input

1. **PURPOSE**

Requests that the message transfer part (MTP) route verification test (MRVT) be initiated. The requested test is run, and the report is written to the MTCE message class and/or the standard output.

2. **FORMAT**

   EXC:MRVT:PC=a[,STPS=b][,TRACE];

3. **EXPLANATION OF MESSAGE**

   **TRACE**
   
   = Include traces of STPs crossed during the test in the output if the test was a success or partial success. If a failure occurs, and this keyword is present the "trace" will not appear, but some error messages do contain a listing of point codes that is similar to the "trace".

   **a**
   
   = The point code of the terminating node for the test. Must be entered in one of the following formats:

   - dddccceee = ANSI® standard.
   - dddffceee = AT&T standard.

   **NOTE:** Non-local network point codes always use ANSI® standard format.

   **b**
   
   = Value of the parameter N, which is the maximum number of signaling transfer points (STPS) the MRVT is allowed to cross (default 2). Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual

   **c**
   
   = The cluster identifier.

   **d**
   
   = The network identifier.

   **e**
   
   = The member identifier.

   **f**
   
   = The region identifier.

4. **SYSTEM RESPONSE**

   **PF**
   
   = Printout follows. Followed by the EXC:MRVT-PC-STPS output message.

5. **REFERENCES**

   Input Message(s):

   CHG:MRVT
Output Message(s):
    CHG: MRVT
    EXC: MRVT-PC-STPS
    REPT: MRVR

Input Appendix(es):
    APP: RANGES

Other Manual(s):
235-190-120   Common Channel Signaling Service Features
EXC:ODDRCVY

**Software Release:** 5E14 and later
**Command Group:** ODD
**Application:** 5
**Type:** Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Requests reapplication of customer-originated and/or regular recent changes (RCs) from the disk log. This message is used when the backout of recent changes has been requested manually or when an automatic recovery of the recent changes is aborted.

When an administrative module (AM), switching module (SM), or communication module processor (CMP) is in a roll forward and an RC transaction problem exists, the roll forward aborts. To restart the roll forward, reenter this message. With a possible roll forward occurring on either side 0 or 1 of the message switch, this input message requires the use of a message switch side indicator to determine the CMP side to roll forward.

WARNING: Using the SKIPLOG option with this message may result in database inconsistencies (splits) to the processor specified. If the processor is in RC BACKOUT and manual intervention is required, only the ALL option should be used to clear the RC BACKOUT status. Use of the SKIPLOG option will skip applying logged recent changes which will cause splits. Only use SKIPLOG if you are familiar with its operation and understand its consequences. Otherwise, refer to the TECHNICAL ASSISTANCE portion of the INTRODUCTION section of the Input Messages manual.

2. FORMAT

EXC:ODDRCVY={CORC|ALL|SKIPLOG}{[,SM=a[&b]][,CMP=c-d][,AM][,SKIPRC];

3. EXPLANATION OF MESSAGE

**NOTE:** Refer to the Acronym section of the Input Messages manual for the full expansion of acronyms shown in the format.

<table>
<thead>
<tr>
<th>Option</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>ALL</td>
<td>Reapply both recent changes and customer-originated recent changes.</td>
</tr>
<tr>
<td>CORC</td>
<td>Reapply only customer-originated recent changes.</td>
</tr>
<tr>
<td>SKIPLOG</td>
<td>Does not reapply any changes. Convert RC BACKOUT lamp to off. Caution: This may cause database splits.</td>
</tr>
<tr>
<td>SKIPRC</td>
<td>Skip the current RC which has the problem and restart the RC roll forward on the next RC tuple. Default is to stop the current RC with the problem.</td>
</tr>
</tbody>
</table>

a = SM number or the lower limit of a range of SM numbers.
b = The upper limit of a range of SM numbers.
c = Message switch side of the CM with the desired CMP. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
d = CMP number or peripheral control number.

4. SYSTEM RESPONSE

NG = No good. The input request is invalid.

PF = Printout follows. The request was accepted. Followed by the EXC:ODDRCVY output message.

RL = Retry later. The input request is blocked by a previous request that is not completed or because the system is not yet stabilized from initialization.

5. REFERENCES

Input Message(s):

   EXC:RCDECODE

Output Message(s):

   EXC:ODDRCVY
   REPT:RCDECODE

Input Appendix(es):

   APP:RANGES

Other Manual(s):

235-105-250  System Recovery
235-105-210  Routine Operations and Maintenance
EXC:OFLBOOT

Software Release: 5E14 and later
Command Group: MAINT
Application: 5,3B
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Initiates the off-line boot procedure. This may be used to verify the integrity of boot files and data, or as the prelude for the side switch.

There are some restrictions the user must follow for this input message to execute successfully:

- The primary or secondary disk must be selected manually.
- Input/output processors (IOPs) 0 and 1 cannot both be selected for the off-line side.
- There should be no recent change/verify (RCV) activities running.
- There should be no diagnostic activities running.
- The maintenance teletypewriter (MTTY) and receive-only printer (ROP) port selector switches must be in the AUTO position and the portswitch controller must be powered on.

WARNING: Incorrect use of this input message may interrupt operations of the system, or degrade its performance or availability.

Off-line boot requires a logical split of the system during which one control unit (CU) and all its subunits will not be available. Off-line boot should never be used if CCS6 links are equipped on the CNI ring.

Note that the boot signal generated in the offline side will result in the yellow critical alarm indicator being lit. This is the expected behavior of the indicator in all bootstraps (including the offline boot). The indicator will be cleared automatically within 30 seconds.

2. FORMAT

EXC:OFLBOOT:[,TTY=a][,APARM=b][,INITLVL=c][,IOPx[MAX]][,HDWCHK][,SFTCHK][,ERRINT][,BROOT][,MINCONFIG][,UCL=d][,MONITOR][,RETROFIT][,OOS][,TRACE];

3. EXPLANATION OF MESSAGE

NOTE: Refer to the Acronym section of the Input Messages manual for the full expansion of acronyms shown in the format.

BROOT = Back up partitions will be used for the off-line side. The default is the primary partitions.
Caution: If a side switch is done and then the OFLBOOT procedure stopped, the system will be running on the backup partitions. A boot will be needed afterward to return to the primary (ROOT) partition.

ERRINT = Error interrupts will be inhibited for the off-line side. The default is allowed.
HDWCHK = Hardware checks will be inhibited for the off-line side. The default is allowed.

IOPx = The IOP will be removed from service in the on-line side and remain on the original off-line side until OFLBOOT is stopped. Side switching does not affect this assignment. The range can be 0 through 7.

If MAX is specified, all devices under this IOP will be equipped and made available to the off-line side except the ROP, MTTY, and Switching Control Center (SCC). The ROP, MTTY, and SCC will be unequipped on the off-line side.

Caution: Even with the SCC unequipped, it may perform a link switch. In this case, all emergency action interface (EAI) capabilities are function.

If MAX is not specified, only peripheral controllers under this IOP will be equipped. Peripheral units under this IOP will not be equipped.

If the default option and the TTY=a option is selected, only TTY=a will be equipped under this IOP in addition to the peripheral controllers.

If OFLBOOT is a prelude to the software release transition procedure, ‘x’ has to be either 0 or 1.

The default is IOPx without MAX.

MINCONFIG = Minimum configuration database will be used for the off-line side. Any subsequent side switch will not be allowed. The default is the full configuration database.

MONITOR = All off-line process recovery messages (PRMs) will be directed to the on-line ROP.

The default case will have only off-line PRMs up to step 4 (KBOOT) directed to the on-line ROP.

OOS = If specified, units selected for the off-line side may be initially OOS. The default requires those units be active (ACT) or standby (STBY).

RETROFIT = Recovery strategy will be modified to accommodate the software release transition. The default is normal recovery strategy. The RETROFIT option should only be used during a manual software release transition scenario. It has a strong impact during the side switch. It allows the side switch to occur even if the switch precheck fails. This can result in a level 3 boot depending on the nature of switch precheck failure. Misuse of this option can cause call processing downtime.

SFTCHK = Software checks will be inhibited for the off-line side. The default is allowed.

TRACE = This option is used by authorized technical personnel only. It is for trouble shooting purposes and generates a significant amount of undocumented trace messages. The default is no trace message generated.

a = The teletypewriter (TTY) option is used as a pseudo ROP on the off-line side. All of the off-line side output directed to the ROP is sent to this TTY. The valid range is 0 to 254. If the selected TTY is a UNIX® system TTY, the output sent to it may be unformatted until someone logs in. The default is no TTY; the off-line ROP output will not be sent to any output device.

Caution: By selecting the TTY option, the IOP associated with it is implicitly assigned to the off-line side.

b = Application parameter for the off-line side. The range is a single alphanumeric character. This is equivalent to the function of poke 42 on the EAI page during normal boot. The default is no APARM.
option set for the off-line side.

\( c \)

\( = \) UNIX® RTR bootstrap initialization level for the off-line side. Valid value(s):
2 \( = \) The initial CU system configuration must be ACT or STBY. The out-of-service (OOS) option will not override this requirement.
3 \( = \) Boot and load new equipment configuration database (ECD).
4 \( = \) Boot and load new ECD and clear the protected application segment (PAS) (default).

Caution: These levels apply to UNIX® RTR initialization. Different applications may or may not support all of them.

\( d \)

\( = \) By selecting the UCL option, some application prechecks will be overridden. The default enforces all prechecks. Application initiated aborts will be ignored. Because the UCL option inhibits system recover actions, it should be used only in a software release transition procedure under technical guidance. Misuse can cause call processing downtime.

\textbf{NOTE:} Using the UCL option requires a password (’d’); to obtain it, refer to the TECHNICAL ASSISTANCE portion of the INTRODUCTION section of the Input Messages manual. The value of ’d’ will change every time the UCL option is entered. Using the UCL option always requires contacting technical assistance.

4. SYSTEM RESPONSE

\( \text{IP} \) \( = \) In progress.

\( \text{NG} \) \( = \) No good.

\( \text{RL} \) \( = \) Retry later. Some activity is running that is incompatible with EXC:OFLBOOT (for example, rcvecd).

5. REFERENCES

Input Message(s):

\texttt{STOP:OFLBOOT}
\texttt{SW:OFLBOOT}

Output Message(s):

\texttt{EXC:OFLBOOT}
\texttt{REPT:OFLBOOT}
\texttt{STOP:OFLBOOT}
\texttt{SW:OFLBOOT}
EXC:PING-A

**Software Release:** 5E14 - 5E16(1)

**Command Group:** TRKLN

**Application:** 5

**Type:** Input

1. **PURPOSE**

The Packet Internet Grooper (PING) is used to verify a Transmission Control Protocol/Internet Protocol (TCP/IP) connection between the Source Internet Protocol (SRCIP) address and the Internet Protocol Destination (IPDEST) address. PING sends a request message with data to the IPDEST address and expects a reply from IPDEST, returning the data sent in the request.

Note: Only one EXC:PING input message is allowed per SM or CHNG until the EXC:PING processing is complete. The system response will indicate when the EXC:PING is still in progress. The response message is RL - PING IN PROGRESS. To enter a valid EXC:PING, repeat the input message after an EXC:PING output.

2. **FORMAT**

[1] EXC:PING,SM=a[,SRCIP=e-f-g-h][,BYTES=i]...
   ...[,TIMEOUT=j][,REPEAT=k],IPDEST=l-m-n-o;

[2] EXC:PING,CHNG=a-b-c-d[,SRCIP=e-f-g-h][,BYTES=i]...
   ...[,TIMEOUT=j][,REPEAT=k],IPDEST=l-m-n-o;

3. **EXPLANATION OF MESSAGE**

Note: Refer to the Acronym section of the Input Messages manual for the full expansion of acronyms shown in the format.

- **a** = SM number.

- **b** = PSU unit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

- **c** = PSU shelf number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

- **d** = Channel group (CHNG) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

Note: SRCIP is the address the PING is sent from. Each entry (e-h) is part of the SRCIP address. The default is the SRCIP of the SM or CHNG.

- **e** = SRCIP. The range is 0-255.

- **f** = SRCIP. The range is 0-255.

- **g** = SRCIP. The range is 0-255.

- **h** = SRCIP. The range is 0-255.

- **i** = BYTES to send in PING Message. This is the number of bytes that will be sent to the IPDEST and...
the same number of bytes received from the IPDEST. The range is 1-126. The default is 126.

\[ j \] = TIMEOUT in seconds waiting from a reply from IPDEST. The range is 1-10. The default is 5.

\[ k \] = REPEAT the number of times to send the message to IPDEST. The range is 1-5. The default is 3.

Note: IPEST is the address the PING is sent to. Each entry (l-o) is part of the IPDEST address.

\[ l \] = IPDEST. The range is 0-255.

\[ m \] = IPDEST. The range is 0-255.

\[ n \] = IPDEST. The range is 0-255.

\[ o \] = IPDEST. The range is 0-255.

4. SYSTEM RESPONSE

\[ \text{NG} \] = No good. The message was not accepted because the SM is isolated or the equipment does not exist. May also include:
- NOT VALID FOR PH = The EXC:PING is not valid for this PH. The feature is not equipped on this PH.
- NOT VALID FOR SM = The EXC:PING is not valid for this SM. The feature is not equipped for this SM.
- NOT VALID PROCESSOR = A invalid processor type was requested, other than SM or PH.

\[ \text{PF} \] = Printout follows. The message was accepted and a printout will follow.

\[ \text{RL} \] = Retry later. May also include:
- PING IN PROGRESS = Only one ping input message is allowed to execute on the same SM or PH.
- CREATE PING TP FAILED = Failed to create the PING Terminal Process.
- MESSAGE TO PING TP FAILED = Message sent to the PING Terminal Process Failed.
- TIMEOUT WAITING TO PROCESS PINGDATA = A timeout occurred waiting for the PING DATA message in the PING Terminal Process.
- BAD DEFAULT = An incorrect message was received in the PING Terminal Process.
- SOCKET NOT CREATED = A socket could not be created.
- BIND FAILED = A BIND to the socket could not be completed.
- SOCKOPT FAILED (BLKING) = When setting BLOCKING for this application, a failure occurred.
- SOCKOPT FAILED (TO) = When setting the TIMEOUT for this application, a failure occurred.

5. REFERENCES

Input Message(s):

NA

Output Message(s):

EXC:PING
1. PURPOSE

The packet internet groper (PING) is used to verify a transmission control protocol/internet protocol (TCP/IP) connection between the source internet protocol (SRCIP) address and the internet protocol destination (IPDEST) address. PING sends a request message with data to the IPDEST address and expects a reply from IPDEST, returning the data sent in the request.

Only one EXC:PING input message is allowed per SM, CHNG, or OFI until the EXC:PING processing is complete. The system response will indicate when the EXC:PING is still in progress. The response message is RL - PING IN PROGRESS. To enter a valid EXC:PING, repeat the input message after a EXC:PING output.

2. FORMAT

[1] EXC:PING,SM=a[,SRCIP=e-e-e-e][,BYTES=i][,TIMEOUT=j][,REPEAT=k],IPDEST=l-l-l-l;

[2] EXC:PING,CHNG=a-b-c-d[,SRCIP=e-e-e-e][,BYTES=i][,TIMEOUT=j][,REPEAT=k],IPDEST=l-l-l-l;

[3] EXC:PING,OFI=a-m-n-o[,SRCIP=e-e-e-e|BROADCAST][,BYTES=i][,TIMEOUT=j][,REPEAT=k],IPDEST=l-l-l-l;

3. EXPLANATION OF MESSAGE

NOTE: Refer to the Acronym section of the Input Messages manual for the full expansion of acronyms shown in the format.

a = SM number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

b = PSU unit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

c = PSU shelf number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

d = Channel group (CHNG) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

Note: SRCIP is the address the PING is sent from. Each entry (variable `e`) is part of the SRCIP address. The default is the SRCIP of the SM or CHNG.

e = SRCIP number. The range is 0-255.

i = Bytes to send in the PING message. This is the number of bytes that will be sent to the IPDEST and the same number of bytes received from the IPDEST. The range is 1-126. The default is 126.
j = Timeout in seconds waiting from a reply from IPDEST. The range is 1-10. The default is 5.
k = Repeat the number of times to send the message to IPDEST. The range is 1-5. The default is 3.

IPDEST is the address the PING is sent to. Each entry (variable ‘i’) is part of the IPDEST address. If the BROADCAST option is used, it is only valid with the OFI identifier. BROADCAST can be used to obtain the IP address of the router associated with the OFI when that IP address is unknown.
l = IPDEST number. The range is 0-255.
m = Optical interface unit (OIU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
n = Protection group (PG) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
o = Side number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

NG = No good. The message was not accepted because the SM is isolated or the equipment does not exist. May also include:
   - NOT VALID FOR PH = The EXC:PING is not valid for this PH. The feature is not equipped on this PH.
   - NOT VALID FOR OFI = The EXC:PING is not valid for this OFI. The feature is not equipped for this OFI.
   - NOT VALID FOR NON-SELECTED OFI = The OFI side specified is the non-selected side. The selected side needs to be chosen.
   - NOT VALID FOR SM = The EXC:PING is not valid for this SM. The feature is not equipped for this SM.
   - NOT VALID PROCESSOR = A invalid processor type was requested, other than SM or PH.
   - NOT VALID OPTION = The BROADCAST option can only be used with the OFI identifier.
   - OFI IS OOS = The specified OFI is out-of-service.
   - OFI NOT AVAILABLE = The OFI chosen is not available.
   - UNIT DOES NOT EXIST = An invalid OFI was specified.

PF = Printout follows. The message was accepted and a printout will follow.

RL = Retry later. May also include:
   - BAD DEFAULT = An incorrect message was received in the PING terminal process.
   - BIND FAILED = A BIND to the socket could not be completed.
   - CREATE PING TP FAILED = Failed to create the PING terminal process.
   - MESSAGE TO PING TP FAILED = Message sent to the PING terminal process failed.
   - PING IN PROGRESS = Only one ping input message is allowed to execute on the same SM or PH.
   - SOCKET NOT CREATED = A socket could not be created.
   - SOCKOPT FAILED(BLKING) = When setting BLOCKING for this application, a failure occurred.
   - SOCKOPT FAILED(TO) = When setting the TIMEOUT for this application, a failure occurred.
   - TIMEOUT WAITING TO PROCESS PINGDATA = A timeout occurred waiting for the PING DATA message in the PING terminal process.
5. REFERENCES

Output Message(s):

EXC: PING

Input Appendix(es):

APP: RANGES

Other Manual(s):
235-105-110  System Maintenance Requirements and Tools
EXC:PM-A

Software Release: 5E14 only
Command Group: TRKLN
Application: 5
Type: Input

1. PURPOSE

Requests the monitoring of a particular level 2 or level 3 or level 7 protocol on a given interface terminating on the switch provided the protocol stack to be monitored is supported on the interface.

The monitoring function records frames or packets or messages transmitted or received for the requested recording protocol level. The frames or packets or messages recorded are those surrounding a particular specified event, either a particular frame or packet or message or a particular protocol error record (PER). Refer to the Protocol Error Record Descriptions manual for additional information about a specific PER. Depending on the protocol, the protocol monitoring session will be recorded on either an SM or a PH. The following table indicates which processor records the protocol exchange. The number of sessions which can concurrently record on a given processor are:

- 8 per office.
- 2 per SM and 4 per SM 2000.
- 2 per PH and PH2.
- 3 per PH3 and PH4.
- 2 per PHV1, PHV2, and PHV3.
- 1 per PH4 connected to Frame Relay Bearer Channels (FRBCs).

Note: It is very important for the user to understand that when protocol monitoring is turned on to monitor a Frame Relay Bearer Channel connected to a PH4, it will result in real time performance degradation of the PH4. Therefore, the user is strongly urged to limit the duration of protocol monitoring session on a Frame Relay Bearer Channel to the absolute bare minimum.

PROTOCOL RECORDING PROCESSOR

<table>
<thead>
<tr>
<th>Protocol</th>
<th>Processor</th>
</tr>
</thead>
<tbody>
<tr>
<td>LAPD</td>
<td>PH</td>
</tr>
<tr>
<td>LAPF</td>
<td>PH</td>
</tr>
<tr>
<td>LAPB</td>
<td>PH</td>
</tr>
<tr>
<td>X25</td>
<td>PH (B-channel) SM (D-channel)</td>
</tr>
<tr>
<td>X75P</td>
<td>PH</td>
</tr>
<tr>
<td>Q931</td>
<td>SM</td>
</tr>
<tr>
<td>X75</td>
<td>PH</td>
</tr>
<tr>
<td>TMC</td>
<td>SM</td>
</tr>
<tr>
<td>V120</td>
<td>SM</td>
</tr>
<tr>
<td>CESHL2</td>
<td>PHV</td>
</tr>
<tr>
<td>CESHL3</td>
<td>PHV</td>
</tr>
<tr>
<td>RLP</td>
<td>PHV</td>
</tr>
<tr>
<td>ISLP</td>
<td>PHV</td>
</tr>
</tbody>
</table>

Up to eighty frames or packets or messages can be saved; the total number saved is dependent on the length of each frame or packet or message.

Format 1 is specified when a recording session is to be terminated upon the occurrence of either any PER or a specific PER found on the monitored channel.

Format 2 is specified when a recording session is to be terminated upon the occurrence of a particular frame or packet or message traveling in the specified direction between switch and customer premises equipment (CPE).

2. FORMAT
3. EXPLANATION OF MESSAGE

Note: Refer to the Acronym section of the Input Messages manual for the full expansion of acronyms shown in the format.

**PER**
- Terminate the recording session if a valid PER occurs on the channel for the specified trigger protocol. If a protocol error code (PEC) is not specified, then any valid PER for the trigger protocol will terminate the session.

**PRINT**
- Print the output on the receive-only printer (ROP).

Note: If the request is initiated from the Master Control Center (MCC) or a supplemental trunk and line workstation (STLWS), the output is automatically printed on the ROP. Any other device requires this option for printing output on the ROP.

**XLATE**
- Translate the hexadecimal data messages of the recording session into ASCII and store the translated output in a file on the moving head disk (MHD) of the administrative module (AM). Translation capability is a "secured feature". If the feature is not activated, the information will be reported in hex format. Translation is not available for all protocols.

The base translation capability is controlled by "special feature" #32. Enhancements to the base translation capability are built on top of the base translation capability. Currently, the translator has one translation enhancement. The "special feature" #151 enhancement allows translation of the National ISDN (NI) protocol changes. The base translation capability "special feature" #32 supports translation for LAPB, LAPD, LAPF, Q.931 (custom only), X.25, X.75, and RLP protocols. The NI translation capability "special feature" #151 adds translation for Q.931 (National ISDN) protocol, and also to a lesser extent for the X.25 and X.75 (National ISDN changes) protocols.

If the translation of the protocol is not supported, the information will be reported in hex format. The file name will be formatted as atf.xxx where xxx corresponds to the session number of the protocol monitoring session. The protocol translator will store the ASCII translation file (ATF) in a predetermined location. The location is presently /unixa/users/pmtran/atf.xxx. The full path name of the ATF will appear in the ROP output.

**a**
- Line identification. Valid value(s):
  - AIUEN=c-1^1-m^1-n^1
  - DEN=c-m-n-o
  - DN=b
  - DNUSEOC=c-f^1-r-t
  - DNUSTMC=c-f^1-r-t
  - DSLGM=c-d-e
  - IDCUEOC=c-q-r-t
  - IDCUTMC=c-q-r-t
  - ILEN=c-q-r-s
INEN=c-f\textsuperscript{1}-r-s
LCEN=c-j-k-l
LCKEN=c-c\textsuperscript{1}-k\textsuperscript{1}-d\textsuperscript{1}-e\textsuperscript{1}
MLHG=h-i
NEN=c-f\textsuperscript{1}-g\textsuperscript{1}-u\textsuperscript{1}-h\textsuperscript{1}-i\textsuperscript{1}-v\textsuperscript{1}-j\textsuperscript{1}
PKTDN=b
PLTEN=c-w\textsuperscript{1}-x\textsuperscript{1}-y\textsuperscript{1}-z\textsuperscript{1}
PORT=c-p
TKGMN=f-g
PSUEN=c-q\textsuperscript{1}-r\textsuperscript{1}-t\textsuperscript{1}-e

b = The directory number.
c = Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
d = Protocol handler (PH) channel group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
e = PH channel member number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
f = Trunk group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
g = Trunk group member number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
h = Multi-line hunt group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
i = Multi-line hunt group member number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
j = Integrated services line unit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
k = Line group controller number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
l = Line card number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
m = Digital line and trunk unit (DLTU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
n = Digital facility interface number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
o = Digital channel number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
p = Logical port number.
q = Integrated digital carrier unit. Refer to the APP:RANGES appendix in the Appendixes section of
the Input Messages manual.

r = Remote terminal (RT) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

s = RT Line number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

t = Primary/protection identifier. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

u = Channel to be monitored (applies only to basic rate interfaces). The default channel will be based on the method of line identification and, optionally, the protocol level to be monitored. The channel option will be required when invoked with the DN or multi-line hunt group line identifiers, and these identifiers reflect multiple packet services. In other words, if a channel cannot be determined (such as, a user has a circuit service on the D-channel, a packet service on the D-channel, and a packet service on the B-channel and all services use the same DN), the request will be denied. It will, however, be accepted if the input message included the appropriate channel option.

D = D-channel.

B1 = B1-channel. This option can only be used with permanent packet B-channel (PPB).

B2 = B2-channel. This option can only be used with PPB.

ODPRI = Primary on-demand packet B-channel (valid for single and multiple on-demand B-channel packet switching). This option can only be used with on-demand B-channel services. With on-demand packet services, either B-channel is available for use by the on-demand packet service. There is no direct relationship between the on-demand packet service and a B-channel. The first B-channel used by the on-demand packet service is considered the primary channel.

ODPSEC = Secondary on-demand packet B-channel (valid for multiple on-demand B-channel packet switching only). This option can only be used with on-demand B-channel services. The second B-channel used by the on-demand packet service is considered the secondary channel.

v = Protocol level (PROT). Valid value(s):

LAPD = Monitor the LAPD protocol (default, if determined/requested channel is D).

LAPB = Monitor the LAPB protocol (default, if determined/requested channel is other than D).

LAPF = Monitor the LAPF protocol

Q931 = Monitor the Q.931 protocol.

TMC = Monitor the TMC protocol.

V120 = Monitor the V.120 protocol.

X25 = Monitor the X.25 protocol.
X75  = Monitor the X.75 protocol.
X75P = Monitor the X.75' protocol.
CESHL2 = Monitor the CESHL2 protocol.
CESHL3 = Monitor the CESHL3 protocol.
RLP  = Monitor the RLP protocol.
ISLP = Monitor the ISLP protocol.

w = Protocol's trigger level (TRIGLVL). The default depends on PROT. Valid value(s):

<table>
<thead>
<tr>
<th>PROTOCOL</th>
<th>TRIGLVL</th>
</tr>
</thead>
<tbody>
<tr>
<td>LAPD</td>
<td>LEVEL2</td>
</tr>
<tr>
<td>LAPF</td>
<td>LEVEL2</td>
</tr>
<tr>
<td>LAPB</td>
<td>LEVEL2</td>
</tr>
<tr>
<td>X25</td>
<td>LEVEL3</td>
</tr>
<tr>
<td>X75P</td>
<td>LEVEL3</td>
</tr>
<tr>
<td>Q931</td>
<td>LEVEL3</td>
</tr>
<tr>
<td>X75</td>
<td>LEVEL3</td>
</tr>
<tr>
<td>TMC</td>
<td>LEVEL3</td>
</tr>
<tr>
<td>V120</td>
<td>LEVEL3</td>
</tr>
<tr>
<td>IDLC</td>
<td>LEVEL7</td>
</tr>
<tr>
<td>ATS</td>
<td>LEVEL7</td>
</tr>
<tr>
<td>CESHL2</td>
<td>LEVEL2</td>
</tr>
<tr>
<td>CESHL3</td>
<td>LEVEL3</td>
</tr>
<tr>
<td>RLP</td>
<td>LEVEL7</td>
</tr>
<tr>
<td>ISLP</td>
<td>LEVEL2</td>
</tr>
</tbody>
</table>

Note: The trigger level/protocol must be terminated on the same processor as the recording protocol.

Note: For CESHL2, CESHL3, ISLP, and RLP protocols there is only one triggering level which is the above indicated default value.

x = Specific PEC to trigger session termination. Refer to the 235-600-755 for details.

Note: This field must be enclosed in double quotation marks.

y = TRIGVAL that terminates the recording session. Valid value(s):

<table>
<thead>
<tr>
<th>Protocols</th>
<th>Value(s):</th>
</tr>
</thead>
<tbody>
<tr>
<td>LAPD</td>
<td>DISC = LAPD disconnect frame.</td>
</tr>
<tr>
<td></td>
<td>DM = LAPD disconnected mode frame.</td>
</tr>
<tr>
<td></td>
<td>FRMR = LAPD frame reject frame.</td>
</tr>
<tr>
<td></td>
<td>I = LAPD information frame.</td>
</tr>
<tr>
<td></td>
<td>REJ = LAPD reject frame.</td>
</tr>
<tr>
<td></td>
<td>RNR = LAPD receive not ready frame.</td>
</tr>
<tr>
<td></td>
<td>RR = LAPD receive ready frame.</td>
</tr>
<tr>
<td></td>
<td>SABM = LAPD set asynchronous balanced mode frame.</td>
</tr>
<tr>
<td>LAPD</td>
<td>Description</td>
</tr>
<tr>
<td>--------------</td>
<td>--------------------------------------------------</td>
</tr>
<tr>
<td>SABME</td>
<td>LAPD set asynchronous balanced mode extended frame.</td>
</tr>
<tr>
<td>UA</td>
<td>LAPD unnumbered acknowledgment frame.</td>
</tr>
<tr>
<td>UI</td>
<td>LAPD unnumbered information frame.</td>
</tr>
<tr>
<td>XID</td>
<td>LAPD identification frame.</td>
</tr>
<tr>
<td>LAPB</td>
<td></td>
</tr>
<tr>
<td>DISC</td>
<td>LAPB disconnect frame.</td>
</tr>
<tr>
<td>DM</td>
<td>LAPB disconnected mode frame.</td>
</tr>
<tr>
<td>FRMR</td>
<td>LAPB frame reject frame.</td>
</tr>
<tr>
<td>I</td>
<td>LAPB information frame.</td>
</tr>
<tr>
<td>REJ</td>
<td>LAPB reject frame.</td>
</tr>
<tr>
<td>RNR</td>
<td>LAPB receive not ready frame.</td>
</tr>
<tr>
<td>RR</td>
<td>LAPB receive ready frame.</td>
</tr>
<tr>
<td>SABM</td>
<td>LAPB set asynchronous balanced mode frame.</td>
</tr>
<tr>
<td>SABME</td>
<td>LAPB set asynchronous balanced mode extended frame.</td>
</tr>
<tr>
<td>UA</td>
<td>LAPB unnumbered acknowledgment frame.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Q.931</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>ALERTING</td>
<td>Q.931 alerting message.</td>
</tr>
<tr>
<td>ASSOCIATED</td>
<td>Q.931 associate message.</td>
</tr>
<tr>
<td>ASSOCIATEDACK</td>
<td>Q.931 associate acknowledgment message.</td>
</tr>
<tr>
<td>CALLPROCEED</td>
<td>Q.931 call proceeding message.</td>
</tr>
<tr>
<td>CONFERENCE</td>
<td>Q.931 conference message.</td>
</tr>
<tr>
<td>CONFERENCEACK</td>
<td>Q.931 conference acknowledgment message.</td>
</tr>
<tr>
<td>CONFERENCEREJ</td>
<td>Q.931 conference reject message.</td>
</tr>
<tr>
<td>CONNECT</td>
<td>Q.931 connect message.</td>
</tr>
<tr>
<td>CONNECTACK</td>
<td>Q.931 connect acknowledgment message.</td>
</tr>
<tr>
<td>DISCONNECT</td>
<td>Q.931 disconnect message.</td>
</tr>
<tr>
<td>DROP</td>
<td>Q.931 drop message.</td>
</tr>
<tr>
<td>DROPACK</td>
<td>Q.931 drop acknowledgment message.</td>
</tr>
<tr>
<td>DROPREJECT</td>
<td>Q.931 drop reject message.</td>
</tr>
<tr>
<td>FACILITY</td>
<td>Q.931 facility message.</td>
</tr>
<tr>
<td>HOLD</td>
<td>Q.931 hold message.</td>
</tr>
<tr>
<td>HOLDACK</td>
<td>Q.931 hold acknowledgment message.</td>
</tr>
<tr>
<td>HOLDREJECT</td>
<td>Q.931 hold reject message.</td>
</tr>
<tr>
<td>INFORMATION</td>
<td>Q.931 information message.</td>
</tr>
<tr>
<td>KEYHOLD</td>
<td>Q.931 key hold message.</td>
</tr>
<tr>
<td>KEYRELEASE</td>
<td>Q.931 key release message.</td>
</tr>
<tr>
<td>KEYSETUP</td>
<td>Q.931 key setup message.</td>
</tr>
<tr>
<td>KEYSETUPACK</td>
<td>Q.931 key setup acknowledge message.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Q.931</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>MGMTINFO</td>
<td>Q.931 management information message.</td>
</tr>
<tr>
<td>NOTIFY</td>
<td>Q.931 notify message.</td>
</tr>
<tr>
<td>PROGRESS</td>
<td>Q.931 progress message.</td>
</tr>
<tr>
<td>RECONNECT</td>
<td>Q.931 reconnect message.</td>
</tr>
<tr>
<td>RECONNECTACK</td>
<td>Q.931 reconnect acknowledgment message.</td>
</tr>
<tr>
<td>RECONNECTREJ</td>
<td>Q.931 reconnect reject message.</td>
</tr>
<tr>
<td>REDIRECT</td>
<td>Q.931 redirect message.</td>
</tr>
<tr>
<td>REGISTER</td>
<td>Q.931 register message.</td>
</tr>
<tr>
<td>RELEASE</td>
<td>Q.931 release message.</td>
</tr>
<tr>
<td>RELEASECOMP</td>
<td>Q.931 release complete message.</td>
</tr>
<tr>
<td>RESTART</td>
<td>Q.931 restart message.</td>
</tr>
<tr>
<td>RESTARTACK</td>
<td>Q.931 restart acknowledgment message.</td>
</tr>
<tr>
<td>RETRIEVE</td>
<td>Q.931 retrieve message.</td>
</tr>
<tr>
<td>RETRIEVEACK</td>
<td>Q.931 retrieve acknowledge message.</td>
</tr>
</tbody>
</table>
INTR = X.75' or X75 interrupt packet.
INTRCNF = X.75' or X75 interrupt confirmation packet.
RESET = X.75' or X75 reset request packet.
RESETCNF = X.75' or X75 reset confirmation packet.
RESTART = X.75' or X75 restart request packet.
RESTARTCNF = X.75' or X75 restart confirmation packet.
RNR = X.75' or X75 receiver not ready packet.
RR = X.75' or X75 receiver ready packet.

**CESHL2**

DISC = CESHL2 disconnect frame.
DM = CESHL2 disconnect mode frame.
FRMR = CESHL2 S type reject frame.
I = CESHL2 information frame.
RR = CESHL2 receive ready frame.
RNR = CESHL2 receive not ready frame.
REJ = CESHL2 U type reject frame.
SABME = CESHL2 set asynchronous balanced mode extended frame.
UA = CESHL2 unnumbered acknowledgment frame.
UI = CESHL2 unnumbered information frame.
XID = CESHL2 identification frame.

**CESHL3**

BURST DTMF = CESHL3 general burst Dual Tone Multi-Frequency (DTMF) message.
START DTMF = CESHL3 start continuous DTMF message.
STOP DTMF = CESHL3 stop continuous DTMF message.
CLK ADJUST = CESHL3 clock adjust message.
CONNECT = CESHL3 connect message.
JOIN = CESHL3 join message.
REMOVE = CESHL3 remove message.
ACK = CESHL3 acknowledgment message.
NACK = CESHL3 negative acknowledgment message.
DROP = CESHL3 drop message.
REV VOICE = CESHL3 reverse voice traffic message.
REV MIXED = CESHL3 reverse mixed traffic message.
FWD VOICE = CESHL3 forward voice traffic message.
FWD VIXED = CESHL3 forward mixed traffic message.

**RLP**

INV = RLP invalid message.
UNSEG = RLP unsegmented data message.
FIRST SEG = RLP first segmented data message.
SECOND SEG = RLP second segmented data message.
LAST SEG = RLP last segmented data message.
IDLE = RLP idle message.
ISFF = RLP intersegment fill message.
NAK = RLP negative acknowledgment fill message.
SYNC = RLP synchronous message.
ACK = RLP acknowledgment message.
SYNC ACK = RLP synchronous acknowledgment message.

*z* = Direction (DIR) of frame or packet or message to trigger upon. Valid value(s):
RCV = Trigger if the frame or packet or message is received by the switch from the CPE.
   RCV is the default.
XMT = Trigger if the frame or packet or message is transmitted from the switch to the
CPE.

a \= Offset (OFF) of the number of frames to be recorded after detection of the trigger event (default is 0). Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

b \= Duration (DUR) of the recording session in seconds (default is 3600). Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

c \= Integrated service line unit 2 (ISLU2) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

d \= Line board number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

e \= Line circuit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

f \= Digital networking unit - synchronous optical network (SONET) (DNU-S) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

g \= Data group (DG) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

h \= Synchronous transport signal (STS) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

i \= Virtual tributary group (VTG) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

j \= Digital signal level 0 (DS0) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

k \= Line group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

l \= Access interface unit (AIU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

m \= AIU pack number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

n \= AIU circuit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

p \= Allows the user to optionally specify the type of messages to be recorded when monitoring LAP D protocol on a Frame Relay Bearer Channel. User can request specifically to monitor either control messages or user data. However, if user data recording is requested, only a summary of the user data frame will be recorded, due to the sheer volume of the user data. The summary of the user data frame will contain the address information and the length of the actual user data frame transmitted or received.

Valid value(s):
CTRL \= record only control messages. CTRL is the default value.
DATA \= record only a summary of the transmitted or received user data frame.
ALL \= record both control messages and a summary of the transmitted or received
user data frame.

= Allows the user to optionally specify the type of messages or frames to be recorded when protocol monitoring is on a Speech Handler or an Autoplex® Data Trunk. This option can be used with CESHL2 or CESHL3 or RLP protocol.

Valid value(s):
CTRL = requesting recording of control frames (S and I) for CESHL2 protocol. Default value for CESHL2 protocol at level 2 recording.
TRAF = requesting recording of UI traffic messages for CESHL3 protocol.
IP = requesting recording of Inter-Processor messages for CESHL3 protocol. Default value for CESHL3 protocol at level 3 recording.
RLP = requesting recording of non-idle RLP frames for RLP protocol. Default value for RLP protocol at level 7 recording.
ALL = requesting recording of all messages for CESHL2 or CESHL3 or RLP protocol. This will result in recording S, I, XID, and UI frames for CESHL2 protocol, or UI plus IP frames for CESHL3 protocol, or RLP plus idle frames for RLP protocol.

= Packet Switching Unit (PSU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

= PSU shelf number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

= PSU channel group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

= SONET termination equipment (STE) facility number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

= Virtual tributary member (VTM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

= Peripheral Control and Timing (PCT) Line and Trunk Unit number (PLTU). Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

= PCT Facility Interface (PCTFI) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

= Tributary number (T1FAC). Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

= Channel number (CHAN.) Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

NG = No good. The message was not recognized or was not acceptable.
PF = Printout follows. The request has been accepted and is in progress. Followed by the EXC:PM output message.
RL = Retry later. The system is busy.

5. REFERENCES

Input Message(s):

OP: PM
STP: PM

Output Message(s):

EXC: PM
OP: PM
STP: PM

Input Appendix(es):

APP: RANGES

Other Manual(s):

235-105-220 Corrective Maintenance
235-190-105 ISDN Feature Descriptions
235-190-120 Common Channel Signaling Service Features
235-600-755 Protocol Error Record Descriptions
235-900-341 National ISDN Basic Rate Interface Specification
1. PURPOSE

Requests the monitoring of a particular level 2 or level 3 or level 7 protocol on a given interface terminating on the switch provided the protocol stack to be monitored is supported on the interface.

The monitoring function records frames or packets or messages transmitted or received for the requested recording protocol level. The frames or packets or messages recorded are those surrounding a particular specified event, either a particular frame or packet or message or a particular protocol error record (PER). Refer to the Protocol Error Record Descriptions manual for additional information about a specific PER. Depending on the protocol, the protocol monitoring session will be recorded on either an SM or a PH. The following table indicates which processor records the protocol exchange. The number of sessions which can concurrently record on a given processor are:

- 8 per office.
- 2 per SM and 4 per SM 2000.
- 2 per PH and PH2.
- 3 per PH3 and PH4.
- 2 per PHV1, PHV2, and PHV3.
- 1 per PH4 connected to frame relay bearer channels (FRBCs).

It is very important for the user to understand that when protocol monitoring is turned on to monitor a frame relay bearer channel connected to a PH4, it will result in real time performance degradation of the PH4. Therefore, the user is strongly urged to limit the duration of protocol monitoring session on a frame relay Bearer channel to the absolute bare minimum.

Up to eighty frames or packets or messages can be saved; the total number saved is dependent on the length of each frame or packet or message.

Format 1 is specified when a recording session is to be terminated upon the occurrence of either any PER or a specific PER found on the monitored channel.

Format 2 is specified when a recording session is to be terminated upon the occurrence of a particular frame or packet or message traveling in the specified direction between switch and customer premises equipment (CPE).

2. FORMAT

[1] EXC:PM,a,[,CH=u][,PROT=v][,TRIGLVL=w][,PLANE=p1][,MSGGRP=o1]...PER[="x"][,OFF=a1][,DUR=b1][,PRINT][,XLATE];

[2] EXC:PM,a,[,CH=u][,PROT=v][,TRIGLVL=w][,PLANE=p1][,MSGGRP=o1]...TRIGVAL=y[,DIR=z][,OFF=a1][,DUR=b1][,PRINT][,XLATE];

3. EXPLANATION OF MESSAGE

Refer to the Acronym section of the Input Messages manual for the full expansion of acronyms shown in the format.
PER = Terminate the recording session if a valid PER occurs on the channel for the specified trigger protocol. If a protocol error code (PEC) is not specified, then any valid PER for the trigger protocol will terminate the session.

PRINT = Print the output on the ROP. If the request is initiated from the Master Control Center (MCC) or a supplemental trunk and line workstation (STLWS), the output is automatically printed on the ROP. Any other device requires this option for printing output on the ROP.

Xlate = Translate the hexadecimal data messages of the recording session into ASCII and store the translated output in a file on the moving head disk (MHD) of the administrative module (AM). Translation capability is a "secured feature". If the feature is not activated, the information will be reported in hex format. Translation is not available for all protocols.

The base translation capability is controlled by "special feature" #32. Enhancements to the base translation capability are built on top of the base translation capability. Currently, the translator has one translation enhancement. The "special feature" #151 enhancement allows translation of the national ISDN (NI) protocol changes. The base translation capability "special feature" #32 supports translation for LAPB, LAPD, LAPF, Q.931 (custom only), X.25, X.75, and RLP protocols. The NI translation capability "special feature" #151 adds translation for Q.931 (National ISDN) protocol, and also to a lesser extent for the X.25 and X.75 (National ISDN changes) protocols.

If the translation of the protocol is not supported, the information will be reported in hex format. The file name will be formatted atf.xxx where xxx corresponds to the session number of the protocol monitoring session. The protocol translator will store the ASCII translation file (ATF) in a predetermined location. The location is presently /unixa/users/pmtran/atf.xxx. The full path name of the ATF will appear in the ROP output.

a = Line identification. Valid value(s):
AIUEN=c-l^1-m^1-n^1
DEN=c-m-n-o
DN=b
DNUSEOC=c-f^1-r-t
DNUSTMC=c-f^1-r-t
DSLGM=c-q-d-e
IDCUEOC=c-q-r-t
IDCUTMC=c-q-r-t
ILEN=c-q-r-s
INEN=c-f^1-r-s
LCEN=c-j-k-l
LCKEN=c-c^1-k^1-d^1-e^1
MLHG=h-l
NEN=c-f^1-g^1-u^1-h^1-l^1-v^1-j^1
PSTDN=b
PLTEN=c-w^1-x^1-y^1-z^1
PORT=c-p
TKGMN=f-g
PSUEN=c-q^1-r^1-t^1-e
VBRI=c-a^2
VTRK=c-b^2-c^2

b = The directory number.
c  = Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

d  = Protocol handler (PH) channel group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

e  = PH channel member number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

f  = Trunk group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

g  = Trunk group member number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

h  = Multi-line hunt group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

i  = Multi-line hunt group member number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

j  = Integrated services line unit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

k  = Line group controller number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

l  = Line card number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

m  = Digital line and trunk unit (DLTU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

n  = Digital facility interface number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

o  = Digital channel number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

p  = Logical port number.

q  = Integrated digital carrier unit. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

r  = Remote terminal (RT) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

s  = RT Line number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

t  = Primary/protection identifier. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

u  = Channel to be monitored (applies only to basic rate interfaces). The default channel will be based on the method of line identification and, optionally, the protocol level to be monitored. The channel
option will be required when invoked with the DN or multi-line hunt group line identifiers, and these identifiers reflect multiple packet services. In other words, if a channel cannot be determined (such as, a user has a circuit service on the D-channel, a packet service on the D-channel, and a packet service on the B-channel and all services use the same DN), the request will be denied. It will, however, be accepted if the input message included the appropriate channel option.

\[ \text{D} = \text{D-channel}. \]
\[ \text{B1} = \text{B1-channel}. \] This option can only be used with permanent packet B-channel (PPB).
\[ \text{B2} = \text{B2-channel}. \] This option can only be used with PPB.
\[ \text{ODPPRI} = \text{Primary on-demand packet B-channel (valid for single and multiple on-demand B-channel packet switching). This option can only be used with on-demand B-channel services. With on-demand packet services, either B-channel is available for use by the on-demand packet service. There is no direct relationship between the on-demand packet service and a B-channel. The first B-channel used by the on-demand packet service is considered the primary channel.} \]
\[ \text{ODPSEC} = \text{Secondary on-demand packet B-channel (valid for multiple on-demand B-channel packet switching only). This option can only be used with on-demand B-channel services. The second B-channel used by the on-demand packet service is considered the secondary channel.} \]

\[ \text{v} = \text{Protocol level (PROT). Valid value(s):} \]
\[ \text{CESHL2} = \text{Monitor the CESHL2 protocol.} \]
\[ \text{CESHL3} = \text{Monitor the CESHL3 protocol.} \]
\[ \text{ISLP} = \text{Monitor the ISLP protocol.} \]
\[ \text{LAPD} = \text{Monitor the LAPD protocol (default, if determined/requested channel is D).} \]
\[ \text{LAPB} = \text{Monitor the LAPB protocol (default, if determined/requested channel is other than D).} \]
\[ \text{LAPF} = \text{Monitor the LAPF protocol} \]
\[ \text{Q931} = \text{Monitor the Q.931 protocol.} \]
\[ \text{RLP} = \text{Monitor the RLP protocol.} \]
\[ \text{TMC} = \text{Monitor the TMC protocol.} \]
\[ \text{V120} = \text{Monitor the V.120 protocol.} \]
\[ \text{X25} = \text{Monitor the X.25 protocol.} \]
\[ \text{X75} = \text{Monitor the X.75 protocol.} \]
\[ \text{X75P} = \text{Monitor the X.75' protocol.} \]

\[ \text{w} = \text{Protocol's trigger level (TRIGLVL). The default depends on PROT. Valid value(s):} \]
\[ \text{PROTOCOL} \quad \text{TRIGLVL} \]
\[ \text{LAPD} \quad \text{LEVEL2} \]
\[ \text{LAPF} \quad \text{LEVEL2} \]
\[ \text{LAPB} \quad \text{LEVEL2} \]
\[ \text{X25} \quad \text{LEVEL3} \]
\[ \text{X75P} \quad \text{LEVEL3} \]
\[ \text{Q931} \quad \text{LEVEL3} \]
\[ \text{X75} \quad \text{LEVEL3} \]
\[ \text{TMC} \quad \text{LEVEL3} \]
\[ \text{V120} \quad \text{LEVEL3} \]
\[ \text{IDLC} \quad \text{LEVEL7} \]
\[ \text{ATS} \quad \text{LEVEL7} \]
\[ \text{CESHL2} \quad \text{LEVEL2} \]
\[ \text{CESHL3} \quad \text{LEVEL3} \]
RLP LEVEL7  
ISLP LEVEL2  

Note: The trigger level/protocol must be terminated on the same processor as the recording protocol.  
Note: For CESHL2, CESHL3, ISLP, and RLP protocols there is only one triggering level which is the above indicated default value.  

\* = Specific PEC to trigger session termination. Refer to the 235-600-755 for details.  
This field must be enclosed in double quotation marks.  

\( y \) = TRIGVAL that terminates the recording session. Valid value(s):  

<table>
<thead>
<tr>
<th>Protocols</th>
<th>Value(s):</th>
</tr>
</thead>
</table>
| LAPD | DISC  
DM = LAPD disconnected mode frame.  
FRMR = LAPD frame reject frame.  
I = LAPD information frame.  
REJ = LAPD reject frame.  
RNR = LAPD receive not ready frame.  
RR = LAPD receive ready frame.  
SABM = LAPD set asynchronous balanced mode frame.  
SABME = LAPD set asynchronous balanced mode extended frame.  
UA = LAPD unnumbered acknowledgment frame.  
UI = LAPD unnumbered information frame.  
XID = LAPD identification frame.  |
| LAPF | DISC = LAPF disconnect frame.  
DM = LAPF disconnected mode frame.  
FRMR = LAPF frame reject frame.  
I = LAPF information frame.  
REJ = LAPF reject frame.  
RNR = LAPF receive not ready frame.  
RR = LAPF receive ready frame.  
SABM = LAPF set asynchronous balanced mode frame.  
SABME = LAPF set asynchronous balanced mode extended frame.  
UA = LAPF unnumbered acknowledgment frame.  
UI = LAPF unnumbered information frame.  
XID = LAPF identification frame.  |
| LAPB | DISC = LAPB disconnect frame.  
DM = LAPB disconnected mode frame.  
FRMR = LAPB frame reject frame.  
I = LAPB information frame.  
REJ = LAPB reject frame.  
RNR = LAPB receive not ready frame.  
RR = LAPB receive ready frame.  
SABM = LAPB set asynchronous balanced mode frame.  
SABME = LAPB set asynchronous balanced mode extended frame.  
UA = LAPB unnumbered acknowledgment frame.  |
| Q931 | ALERTING = Q.931 alerting message.  
ASSOCIATED = Q.931 associate message.  |
ASSOCIATEDACK = Q.931 associate acknowledgment message.
CALLPROCEED = Q.931 call proceeding message.
CONFERENCE = Q.931 conference message.
CONFERENCEACK = Q.931 conference acknowledgment message.
CONFERENCEREJ = Q.931 conference reject message.
CONNECT = Q.931 connect message.
CONNECTACK = Q.931 connect acknowledgment message.
DISCONNECT = Q.931 disconnect message.
DROP = Q.931 drop message.
DROPACK = Q.931 drop acknowledgment message.
DROPREJECT = Q.931 drop reject message.
FACILITY = Q.931 facility message.
HOLD = Q.931 hold message.
HOLDACK = Q.931 hold acknowledgment message.
HOLDDREJ = Q.931 hold reject message.
INFORMATION = Q.931 information message.
KEYHOLD = Q.931 key hold message.
KEYRELEASE = Q.931 key release message.
KEYSETUP = Q.931 key setup message.
KEYSETUPACK = Q.931 key setup acknowledge message.
MGMTINFO = Q.931 management information message.
NOTIFY = Q.931 notify message.
PROGRESS = Q.931 progress message.
RECONNECT = Q.931 reconnect message.
RECONNECTACK = Q.931 reconnect acknowledgment message.
RECONNECTREJ = Q.931 reconnect reject message.
REDIRECT = Q.931 redirect message.
REGISTER = Q.931 register message.
RELEASE = Q.931 release message.
RELEASECOMP = Q.931 release complete message.
RESTART = Q.931 restart message.
RESTARTACK = Q.931 restart acknowledgment message.
RETRIEVE = Q.931 retrieve message.
RETRIEVEACK = Q.931 retrieve acknowledge message.
RETRIEVEREJ = Q.931 retrieve reject message.
SEGMENT = Q.931 segment message.
SERVICE = Q.931 service message.
SERVICEACK = Q.931 service acknowledgment message.
SETUP = Q.931 setup message.
SETUPACK = Q.931 setup acknowledgment message.
STATUS = Q.931 status message.
STATUSINQ = Q.931 status inquiry message.
TRANSFER = Q.931 transfer message.
TRANSFERACK = Q.931 transfer acknowledgment message.
TRANSFERREJ = Q.931 transfer reject message.

CLEAR = X.25 clear request packet.
CLEARCNF = X.25 clear confirmation packet.
CONN = X.25 call accepted packet.
DATA = X.25 data packet.
DIAG = X.25 diagnostic packet.
INCCALL = X.25 incoming call request packet.
| **INTR** | X.25 interrupt packet. |
| **INTRCNF** | X.25 interrupt confirmation packet. |
| **RESET** | X.25 reset request packet. |
| **RESETCNF** | X.25 reset confirmation packet. |
| **RESTART** | X.25 restart request packet. |
| **RESTARTCNF** | X.25 restart confirmation packet. |
| **RNR** | X.25 receiver not ready packet. |
| **RR** | X.25 receiver ready packet. |

| **TMC** | CONNECT = TMC connect message. |
| **CONNECTACK** | TMC connect acknowledgment message. |
| **DISCONNECT** | TMC disconnect message. |
| **INFORMATION** | TMC information message. |
| **RELEASE** | TMC release message. |
| **RELEASECOMP** | TMC release complete message. |
| **SETUP** | TMC setup message. |
| **STATUS** | TMC status message. |
| **STATUSREQP** | TMC status inquiry message. |
| **RESUME** | Resume. |
| **RESUME-ACK** | Resume acknowledge. |
| **SUSPEND** | Suspend. |
| **SUSPEND-ACK** | Suspend acknowledge. |

| **V120** | **ABORT** = V.120 abort segment. |
| **BEGIN** | V.120 begin segment. |
| **MIDDLE** | V.120 middle segment. |
| **FINAL** | V.120 final segment. |
| **SINGLE** | V.120 single segment. |

| **X75 or X75P** | **CLEAR** = X.75’ or X75 clear request packet. |
| **CLEARCNF** | X.75’ or X75 clear confirmation packet. |
| **CONN** | X.75’ or X75 call accepted packet. |
| **DATA** | X.75’ or X75 data packet. |
| **DIAG** | X.75’ or X75 diagnostic packet. |
| **INCCALL** | X.75’ or X75 incoming call request packet. |
| **INTR** | X.75’ or X75 interrupt packet. |
| **INTRCNF** | X.75’ or X75 interrupt confirmation packet. |
| **RESET** | X.75’ or X75 reset request packet. |
| **RESETCNF** | X.75’ or X75 reset confirmation packet. |
| **RESTART** | X.75’ or X75 restart request packet. |
| **RESTARTCNF** | X.75’ or X75 restart confirmation packet. |
| **RNR** | X.75’ or X75 receiver not ready packet. |
| **RR** | X.75’ or X75 receiver ready packet. |

| **CESHL2** | DISC = CESHL2 disconnect frame. |
| **DM** | CESHL2 disconnect mode frame. |
| **FRMR** | CESHL2 S type reject frame. |
| **I** | CESHL2 information frame. |
| **RR** | CESHL2 receive ready frame. |
| **RNR** | CESHL2 receive not ready frame. |
| **REJ** | CESHL2 U type reject frame. |
| **SABME** | CESHL2 set asynchronous balanced mode extended frame. |
| **UA** | CESHL2 unnumbered acknowledgment frame. |
UI = CESHL2 unnumbered information frame.
XID = CESHL2 identification frame.

CESHL3

BURST DTMF = CESHL3 general burst dual tone multi-frequency (DTMF) message.
START DTMF = CESHL3 start continuous DTMF message.
STOP DTMF = CESHL3 stop continuous DTMF message.
CLK ADJUST = CESHL3 clock adjust message.
CONNECT = CESHL3 connect message.
JOIN = CESHL3 join message.
REMOVE = CESHL3 remove message.
ACK = CESHL3 acknowledgment message.
NACK = CESHL3 negative acknowledgment message.
DROP = CESHL3 drop message.
REV VOICE = CESHL3 reverse voice traffic message.
REV MIXED = CESHL3 reverse mixed traffic message.
FWD VOICE = CESHL3 forward voice traffic message.
FWD MIXED = CESHL3 forward mixed traffic message.
PWRCNTL = CESHL3 Power Control Config.
ANCSETUP = CESHL3 anchor setup message.
FSCHREQ = CESHL3 forward supplementary channel request.
FSCHRESP = CESHL3 forward supplementary channel response.
FSCHREL = CESHL3 forward supplementary channel release.
RSCHREL = CESHL3 reverse supplementary channel release.
FSCHABT = CESHL3 forward supplementary channel abort.
RSCHREQ = CESHL3 reverse supplementary channel request.
RSCHRSP = CESHL3 reverse supplementary channel response.
RSCHASN = CESHL3 reverse supplemental channel assign.
ANCREL = CESHL3 anchor release.
RSCHABT = CESHL3 reverse supplemental channel abort.

RLP

INV = RLP invalid message.
UNSEG = RLP unsegmented data message.
FIRST SEG = RLP first segmented data message.
SECOND SEG = RLP second segmented data message.
LAST SEG = RLP last segmented data message.
IDLE = RLP idle message.
ISFF = RLP intersegment fill message.
NAK = RLP negative acknowledgment fill message.
SYNC = RLP synchronous message.
ACK = RLP acknowledgment message.
SYNC ACK = RLP synchronous acknowledgment message.
NULL = RLP3 null message.
SACK = RLP3 synchronous acknowledgment message.
SEG = RLP3 segmented data message.
FILL = RLP3 fill frame message.

ISLP

UI = ISLP unnumbered information frame.

\(a^1\) = Offset (OFF) of the number of frames to be recorded after detection of the trigger event (default is 0). Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

\(b^1\) = Duration (DUR) of the recording session in seconds (default is 3600). Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
c\(^1\) = Integrated service line unit 2 (ISLU2) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

d\(^1\) = Line board number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

e\(^1\) = Line circuit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

f\(^1\) = Digital networking unit - synchronous optical network (SONET) (DNU-S) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

g\(^1\) = Data group (DG) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

h\(^1\) = Synchronous transport signal (STS) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

i\(^1\) = Virtual tributary group (VTG) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

j\(^1\) = Digital signal level 0 (DS0) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

k\(^1\) = Line group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

l\(^1\) = Access interface unit (AIU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

m\(^1\) = AIU pack number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

n\(^1\) = AIU circuit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

p\(^1\) = Allows the user to optionally specify the type of messages to be recorded when monitoring LAP D protocol on a frame relay bearer channel. User can request specifically to monitor either control messages or user data. However, if user data recording is requested, only a summary of the user data frame will be recorded, due to the sheer volume of the user data. The summary of the user data frame will contain the address information and the length of the actual user data frame transmitted or received. Valid value(s):

CTRL = Record only control messages. CTRL is the default value.

DATA = Record only a summary of the transmitted or received user data frame.

ALL = Record both control messages and a summary of the transmitted or received user data frame.

o\(^1\) = Allows the user to optionally specify the type of messages or frames to be recorded when protocol monitoring is on a speech handler or an Autoplex\textsuperscript® data trunk. This option can be used with CESHL2 or CESHL3 or RLP protocol. Valid value(s):
CTRL = Requesting recording of control frames (S and I) for CESHL2 protocol. Default value for CESHL2 protocol at level 2 recording.

TRAF = Requesting recording of UI traffic messages for CESHL3 protocol.

IP = Requesting recording of inter-processor messages for CESHL3 protocol. Default value for CESHL3 protocol at level 3 recording.

RLP = Requesting recording of non-idle RLP frames for RLP protocol. Default value for RLP protocol at level 7 recording.

ALL = Requesting recording of all messages for CESHL2 or CESHL3 or RLP protocol. This will result in recording S, I, XID, and UI frames for CESHL2 protocol, or UI plus IP frames for CESHL3 protocol, or RLP plus idle frames for RLP protocol.

q^1 = Packet switching unit (PSU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

r^1 = PSU shelf number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

t^1 = PSU channel group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

u^1 = SONET termination equipment (STE) facility number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

v^1 = Virtual tributary member (VTM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

w^1 = Peripheral control and timing (PCT) line and trunk unit (PLTU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

x^1 = PCT facility interface (PCTFI) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

y^1 = Tributary number (T1FAC). Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

z^1 = Channel number (CHAN.). Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

a^2 = Virtual BRI line number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

b^2 = Virtual trunk facility number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

c^2 = Virtual trunk channel number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE
NG = No good. The message was not recognized or was not acceptable.

PF = Printout follows. The request has been accepted and is in progress. Followed by the EXC:PM output message.

RL = Retry later. The system is busy.

5. REFERENCES

Input Message(s):

OP:PM
STP:PM

Output Message(s):

EXC:PM
OP:PM
STP:PM

Input Appendix(es):

APP:RANGES

Other Manual(s):
235-105-220 Corrective Maintenance
235-190-104 ISDN Feature Descriptions
235-200-115 CNI Common Channel Signaling
235-200-116 Signaling Gateway Common Channel Signaling
235-600-755 Protocol Error Record Descriptions
235-900-341 National ISDN Basic Rate Interface Specification
**EXC:PM-C**

**Software Release:** 5E16(1) - 5E17(1)
**Command Group:** TRKLN
**Application:** 5
**Type:** Input

### 1. PURPOSE

Requests the monitoring of a particular level 2 or level 3 or level 7 protocol on a given interface terminating on the switch provided the protocol stack to be monitored is supported on the interface.

The monitoring function records frames or packets or messages transmitted or received for the requested recording protocol level. The frames or packets or messages recorded are those surrounding a particular specified event, either a particular frame or packet or message or a particular protocol error record (PER). Refer to the Protocol Error Record Descriptions manual for additional information about a specific PER.

Depending on the protocol, the protocol monitoring session will be recorded on either an SM or a PH. The following table indicates which processor records the protocol exchange. The number of sessions which can concurrently record on a given processor are:

- — 8 per office.
- — 2 per SM and 4 per SM 2000.
- — 2 per PH and PH2.
- — 3 per PH3 and PH4.
- — 2 per PHV1, PHV2, and PHV3.
- — 1 per PH4 connected to frame relay bearer channels (FRBCs).
- — 3 per PHE2.

It is very important for the user to understand that when protocol monitoring is turned on to monitor a frame relay bearer channel connected to a PH4, it will result in real time performance degradation of the PH4. Therefore, the user is strongly urged to limit the duration of protocol monitoring session on a frame relay Bearer channel to the absolute bare minimum.

<table>
<thead>
<tr>
<th>PROTOCOL</th>
<th>RECORDING PROCESSOR</th>
</tr>
</thead>
<tbody>
<tr>
<td>LAPD</td>
<td>PH</td>
</tr>
<tr>
<td>LAPF</td>
<td>PH</td>
</tr>
<tr>
<td>LAPB</td>
<td>PH</td>
</tr>
<tr>
<td>X25</td>
<td>PH (B-channel) SM (D-channel)</td>
</tr>
<tr>
<td>X75P</td>
<td>PH</td>
</tr>
<tr>
<td>Q931</td>
<td>SM</td>
</tr>
<tr>
<td>X7S</td>
<td>PH</td>
</tr>
<tr>
<td>TMC</td>
<td>SM</td>
</tr>
<tr>
<td>V120</td>
<td>SM</td>
</tr>
<tr>
<td>CESHL2</td>
<td>PHV</td>
</tr>
<tr>
<td>CESHL3</td>
<td>PHV</td>
</tr>
<tr>
<td>RLP</td>
<td>PHV</td>
</tr>
<tr>
<td>ISLP</td>
<td>PHV</td>
</tr>
<tr>
<td>A10</td>
<td>PHE</td>
</tr>
<tr>
<td>A11</td>
<td>PHE</td>
</tr>
</tbody>
</table>

Up to eighty frames or packets or messages can be saved; the total number saved is dependent on the length of each frame or packet or message.
Format 1 is specified when a recording session is to be terminated upon the occurrence of either any PER or a specific PER found on the monitored channel.

Format 2 is specified when a recording session is to be terminated upon the occurrence of a particular frame or packet or message traveling in the specified direction between switch and customer premises equipment (CPE).

Format 3 is introduced with the PCF on PHE2 feature. It is specified when a recording session is to be terminated upon the occurrence of a particular frame or packet or message traveling in the specified direction between switch and the mobile station (MS).

Format 4 is specified when a recording session is to be terminated upon the occurrence of either any PER or a specific PER found on the monitored PCF trunk.

2. FORMAT

[1] EXC:PM,a[,CH=u][,PROT=v][,TRIGLVL=w][,PLANE=p1] . . .
   . . .[,MSGGRP=o1]PER[="x"][,OFF=a1] . . .
   . . .[,DUR=b1][,PRINT][,XLATE];

   . . .[,MSGGRP=o1]TRIGVAL=y[,DIR=z][,OFF=a1] . . .
   . . .[,DUR=b1][,PRINT][,XLATE];

   . . .[,PDSNIP=d2-d2-d2-d2] . . .
   . . .[,PROT=e2][,TRIGLVL=f2],TRIGVAL=g2 . . .
   . . .[,DIR=z][,OFF=a1][,DUR=b1][,PRINT][,XLATE];

   . . .[,PDSNIP=d2-d2-d2-d2] . . .
   . . .[,PROT=e2][,TRIGLVL=f2],PER[="x"] . . .
   . . .[,OFF=a1][,DUR=b1][,PRINT][,XLATE];

3. EXPLANATION OF MESSAGE

**NOTE:** Refer to the Acronym section of the Input Messages manual for the full expansion of acronyms shown in the format.

**PER** = Terminate the recording session if a valid PER occurs on the channel for the specified trigger protocol. If a protocol error code (PEC) is not specified, then any valid PER for the trigger protocol will terminate the session.

**PRINT** = Print the output on the ROP.

If the request is initiated from the Master Control Center (MCC) or a supplemental trunk and line workstation (STLWS), the output is automatically printed on the ROP. Any other device requires this option for printing output on the ROP.

**XLATE** = Translate the hexadecimal data messages of the recording session into ASCII and store the
translated output in a file on the moving head disk (MHD) of the administrative module (AM). Translation capability is a "secured feature". If the feature is not activated, the information will be reported in hex format. Translation is not available for all protocols.

The base translation capability is controlled by "special feature" #32. Enhancements to the base translation capability are built on top of the base translation capability. Currently, the translator has one translation enhancement. The "special feature" #151 enhancement allows translation of the national ISDN (NI) protocol changes. The base translation capability "special feature" #32 supports translation for LAPB, LAPD, LAPF, Q.931 (custom only), X.25, X.75, and RLP protocols. The NI translation capability "special feature" #151 adds translation for Q.931 (national ISDN) protocol, and also to a lesser extent for the X.25 and X.75 (national ISDN changes) protocols.

After the introduction of PCF on PHE2 feature, the translator also allows the translation of A10 and A11 protocols.

If the translation of the protocol is not supported, the information will be reported in hex format. The file name will be formatted atf.xxx where xxx corresponds to the session number of the protocol monitoring session. The protocol translator will store the ASCII translation file (ATF) in a predetermined location. The location is presently /unixa/users/pmtran/atf.xxx. The full path name of the ATF will appear in the ROP output.

a = Line identification. Valid value(s):

AIUEN=c-11-m1-n1
DEN=c-m-n-o
DN=b
DNUSEOC=c-f1-r-t
DNUSTMC=c-f1-r-t
DSLGM=c-q-d-e
IDCUEOC=c-q-r-t
IDCUTMC=c-q-r-t
ILEN=c-q-r-s
INEN=c-f1-r-s
LCEN=c-j-k-l
LCKEN=c-c1-k1-d1-e1
MLHG=h-i
NEN=c-f1-g1-u1-h1-i1-v1-j1
OIUEN=c-h2-i2-j2-k2-l1-v1-j1
PKTDN=b
PLTEN=c-w1-x1-y1-z1
PORT=c-p
TKGMN=f-g
PSUEN=c-q1-r1-t1-e
VBRI=c-a2
VTRK=c-b2-c2

b = The directory number.

c = Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

d = Protocol handler (PH) channel group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
= PH channel member number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

f = Trunk group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

g = Trunk group member number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

h = Multi-line hunt group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

i = Multi-line hunt group member number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

j = Integrated services line unit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

k = Line group controller number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

l = Line card number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

m = Digital line and trunk unit (DLTU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

n = Digital facility interface number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

o = Digital channel number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

p = Logical port number.

q = Integrated digital carrier unit. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

r = Remote terminal (RT) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

s = RT Line number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

t = Primary/protection identifier. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

u = Channel to be monitored (applies only to basic rate interfaces). The default channel will be based on the method of line identification and, optionally, the protocol level to be monitored. The channel option will be required when invoked with the DN or multi-line hunt group line identifiers, and these identifiers reflect multiple packet services. In other words, if a channel cannot be determined (such as, a user has a circuit service on the D-channel, a packet service on the D-channel, and a packet service on the B-channel and all services use the same DN), the request will be denied. It will, however, be accepted if the input message included the appropriate channel option.

D = D-channel.
**B1**  = B1-channel. This option can only be used with permanent packet B-channel (PPB).
**B2**  = B2-channel. This option can only be used with PPB.
**ODPPRI**  = Primary on-demand packet B-channel (valid for single and multiple on-demand B-channel packet switching). This option can only be used with on-demand B-channel services. With on-demand packet services, either B-channel is available for use by the on-demand packet service. There is no direct relationship between the on-demand packet service and a B-channel. The first B-channel used by the on-demand packet service is considered the primary channel.
**ODPSEC**  = Secondary on-demand packet B-channel (valid for multiple on-demand B-channel packet switching only). This option can only be used with on-demand B-channel services. The second B-channel used by the on-demand packet service is considered the secondary channel.

\[v\]  = Protocol level (PROT). Valid value(s):
- CESHL2 = Monitor the CESHL2 protocol.
- CESHL3 = Monitor the CESHL3 protocol.
- ISLP = Monitor the ISLP protocol.
- LAPD = Monitor the LAPD protocol (default, if determined/requested channel is D).
- LAPB = Monitor the LAPB protocol (default, if determined/requested channel is other than D).
- LAPF = Monitor the LAPF protocol
- Q931 = Monitor the Q.931 protocol.
- RLP = Monitors the RLP protocol.
- TMC = Monitor the TMC protocol.
- V120 = Monitor the V.120 protocol.
- X25 = Monitor the X.25 protocol.
- X75 = Monitor the X.75 protocol.
- X75P = Monitor the X.75' protocol.

\[w\]  = Protocol's trigger level (TRIGLVL). The default depends on PROT. Valid value(s):

<table>
<thead>
<tr>
<th>PROTOCOL</th>
<th>TRIGLVL</th>
</tr>
</thead>
<tbody>
<tr>
<td>LAPD</td>
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</tr>
<tr>
<td>LAPF</td>
<td>LEVEL2</td>
</tr>
<tr>
<td>LAPB</td>
<td>LEVEL2</td>
</tr>
<tr>
<td>X25</td>
<td>LEVEL3</td>
</tr>
<tr>
<td>X75P</td>
<td>LEVEL3</td>
</tr>
<tr>
<td>Q931</td>
<td>LEVEL3</td>
</tr>
<tr>
<td>X75</td>
<td>LEVEL3</td>
</tr>
<tr>
<td>TMC</td>
<td>LEVEL3</td>
</tr>
<tr>
<td>V120</td>
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</tr>
<tr>
<td>IDLC</td>
<td>LEVEL7</td>
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<td>ATS</td>
<td>LEVEL7</td>
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<tr>
<td>CESHL2</td>
<td>LEVEL2</td>
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<tr>
<td>CESHL3</td>
<td>LEVEL3</td>
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<tr>
<td>RLP</td>
<td>LEVEL7</td>
</tr>
<tr>
<td>ISLP</td>
<td>LEVEL2</td>
</tr>
</tbody>
</table>

\[x\]  = Specific PEC to trigger session termination. Refer to the 235-600-755 for details.
This field must be enclosed in double quotation marks.

\[y\]  = TRIGVAL that terminates the recording session. Valid value(s)
| LAPD | DISC = LAPD disconnect frame.  
| | DM = LAPD disconnected mode frame.  
| | FRMR = LAPD frame reject frame.  
| | I = LAPD information frame.  
| | REJ = LAPD reject frame.  
| | RNR = LAPD receive not ready frame.  
| | RR = LAPD receive ready frame.  
| | SABM = LAPD set asynchronous balanced mode frame.  
| | SABME = LAPD set asynchronous balanced mode extended frame.  
| | UA = LAPD unnumbered acknowledgment frame.  
| | UI = LAPD unnumbered information frame.  
| | XID = LAPD identification frame.  |
| LAPF | DISC = LAPF disconnect frame.  
| | DM = LAPF disconnected mode frame.  
| | FRMR = LAPF frame reject frame.  
| | I = LAPF information frame.  
| | REJ = LAPF reject frame.  
| | RNR = LAPF receive not ready frame.  
| | RR = LAPF receive ready frame.  
| | SABM = LAPF set asynchronous balanced mode frame.  
| | SABME = LAPF set asynchronous balanced mode extended frame.  
| | UA = LAPF unnumbered acknowledgment frame.  
| | UI = LAPF unnumbered information frame.  
| | XID = LAPF identification frame.  |
| LAPB | DISC = LAPB disconnect frame.  
| | DM = LAPB disconnected mode frame.  
| | FRMR = LAPB frame reject frame.  
| | I = LAPB information frame.  
| | REJ = LAPB reject frame.  
| | RNR = LAPB receive not ready frame.  
| | RR = LAPB receive ready frame.  
| | SABM = LAPB set asynchronous balanced mode frame.  
| | SABME = LAPB set asynchronous balanced mode extended frame.  
| | UA = LAPB unnumbered acknowledgment frame.  |
| Q931 | ALERTING = Q.931 alerting message.  
| | ASSOCIATED = Q.931 associate message.  
| | ASSOCIATEDACK = Q.931 associate acknowledgment message.  
| | CALLPROCEED = Q.931 call proceeding message.  
| | CONFERENCE = Q.931 conference message.  
| | CONFERENCEACK = Q.931 conference acknowledgment message.  
| | CONFERENCEREJ = Q.931 conference reject message.  
| | CONNECT = Q.931 connect message.  
| | CONNECTACK = Q.931 connect acknowledgment message.  
| | DISCONNECT = Q.931 disconnect message.  
| | DROP = Q.931 drop message.  
| | DROPACK = Q.931 drop acknowledgment message.  
| | DROPREJECT = Q.931 drop reject message.  
| | FACILITY = Q.931 facility message.  
| | HOLD = Q.931 hold message.  
| | HOLDACK = Q.931 hold acknowledgment message.  |
| HOLDREJECT  | Q.931 hold reject message. |
| INFORMATION | Q.931 information message.  |
| KEYHOLD    | Q.931 key hold message.    |
| KEYRELEASE | Q.931 key release message. |
| KEYSETUP   | Q.931 key setup message.   |
| KEYSETUPACK| Q.931 key setup acknowledge message. |
| MGMTINFO   | Q.931 management information message. |
| NOTIFY     | Q.931 notify message.      |
| PROGRESS   | Q.931 progress message.    |
| RECONNECT  | Q.931 reconnect message.   |
| RECONNECTACK| Q.931 reconnect acknowledgment message. |
| RECONNECTREJ| Q.931 reconnect reject message. |
| REDIRECT   | Q.931 redirect message.    |
| REGISTER   | Q.931 register message.    |
| RELEASE    | Q.931 release message.     |
| RELEASECOMP| Q.931 release complete message. |
| RESTART    | Q.931 restart message.     |
| RESTARTACK | Q.931 restart acknowledgment message. |
| RETRIEVE   | Q.931 retrieve message.    |
| RETRIEVEACK| Q.931 retrieve acknowledge message. |
| RETRIEVEREJ| Q.931 retrieve reject message. |
| SEGMENT    | Q.931 segment message.     |
| SERVICE    | Q.931 service message.     |
| SERVICEACK | Q.931 service acknowledgment message. |
| SETUP      | Q.931 setup message.       |
| SETUPACK   | Q.931 setup acknowledgment message. |
| STATUS     | Q.931 status message.      |
| STATUSINQ  | Q.931 status inquiry message. |
| TRANSFER   | Q.931 transfer message.    |
| TRANSFERACK| Q.931 transfer acknowledgment message. |
| TRANSFERREJ| Q.931 transfer reject message. |

<table>
<thead>
<tr>
<th>X25</th>
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</thead>
<tbody>
<tr>
<td>CLEAR</td>
</tr>
<tr>
<td>CLEARCNF</td>
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<tr>
<td>CONN</td>
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<tr>
<td>DATA</td>
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<tr>
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<td><strong>RESUME-ACK</strong></td>
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<tr>
<td><strong>SUSPEND</strong></td>
</tr>
<tr>
<td><strong>SUSPEND-ACK</strong></td>
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</tbody>
</table>

**V120**
- **ABORT** = V.120 abort segment.
- **BEGIN** = V.120 begin segment.
- **MIDDLE** = V.120 middle segment.
- **FINAL** = V.120 final segment.
- **SINGLE** = V.120 single segment.

**X75 or X75P**
- **CLEAR** = X.75’ or X75 clear request packet.
- **CLEARCNF** = X.75’ or X75 clear confirmation packet.
- **CONN** = X.75’ or X75 call accepted packet.
- **DATA** = X.75’ or X75 data packet.
- **DIAG** = X.75’ or X75 diagnostic packet.
- **INCCALL** = X.75’ or X75 incoming call request packet.
- **INTR** = X.75’ or X75 interrupt packet.
- **INTRCNF** = X.75’ or X75 interrupt confirmation packet.
- **RESET** = X.75’ or X75 reset request packet.
- **RESETCNF** = X.75’ or X75 reset confirmation packet.
- **RESTART** = X.75’ or X75 restart request packet.
- **RESTARTCNF** = X.75’ or X75 restart confirmation packet.
- **RNR** = X.75’ or X75 receiver not ready packet.
- **RR** = X.75’ or X75 receiver ready packet.

**CESHL2**
- **DISC** = CESHL2 disconnect frame.
- **DM** = CESHL2 disconnect mode frame.
- **FRMR** = CESHL2 S type reject frame.
- **I** = CESHL2 information frame.
- **RR** = CESHL2 receive ready frame.
- **RNR** = CESHL2 receive not ready frame.
- **REJ** = CESHL2 U type reject frame.
- **SABME** = CESHL2 set asynchronous balanced mode extended frame.
- **UA** = CESHL2 unnumbered acknowledgment frame.
- **UI** = CESHL2 unnumbered information frame.
- **XID** = CESHL2 identification frame.

**CESHL3**
- **BURST DTMF** = CESHL3 general burst dual tone multi-frequency (DTMF) message.
- **START DTMF** = CESHL3 start continuous DTMF message.
- **STOP DTMF** = CESHL3 stop continuous DTMF message.
- **CLK ADJUST** = CESHL3 clock adjust message.
- **CONNECT** = CESHL3 connect message.
- **JOIN** = CESHL3 join message.
- **REMOVE** = CESHL3 remove message.
- **ACK** = CESHL3 acknowledgment message.
- **NACK** = CESHL3 negative acknowledgment message.
- **DROP** = CESHL3 drop message.
- **REV VOICE** = CESHL3 reverse voice traffic message.
- **REV MIXED** = CESHL3 reverse mixed traffic message.
<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>FWD VOICE</td>
<td>CESHL3 forward voice traffic message.</td>
</tr>
<tr>
<td>FWD VIXED</td>
<td>CESHL3 forward mixed traffic message.</td>
</tr>
<tr>
<td>PWRCNTL</td>
<td>CESHL3 power control config.</td>
</tr>
<tr>
<td>ANCSETUP</td>
<td>CESHL3 anchor setup message.</td>
</tr>
<tr>
<td>FSCHREQ</td>
<td>CESHL3 forward supplementary channel request.</td>
</tr>
<tr>
<td>FSCHRESP</td>
<td>CESHL3 forward supplementary channel response.</td>
</tr>
<tr>
<td>FSCHREL</td>
<td>CESHL3 forward supplementary channel release.</td>
</tr>
<tr>
<td>RSCREL</td>
<td>CESHL3 reverse supplementary channel release.</td>
</tr>
<tr>
<td>FSCHABT</td>
<td>CESHL3 forward supplementary channel abort.</td>
</tr>
<tr>
<td>RSCREL</td>
<td>CESHL3 reverse supplementary channel request.</td>
</tr>
<tr>
<td>RSCHREQ</td>
<td>CESHL3 reverse supplementary channel response.</td>
</tr>
<tr>
<td>RSCHASN</td>
<td>CESHL3 reverse supplemental channel assign.</td>
</tr>
<tr>
<td>ANCREL</td>
<td>CESHL3 anchor release.</td>
</tr>
<tr>
<td>RSCHABT</td>
<td>CESHL3 reverse supplemental channel abort.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>RLP</td>
<td>INV = RLP invalid message.</td>
</tr>
<tr>
<td></td>
<td>UNSEG = RLP unsegmented data message.</td>
</tr>
<tr>
<td></td>
<td>FIRST SEG = RLP first segmented data message.</td>
</tr>
<tr>
<td></td>
<td>SECOND SEG = RLP second segmented data message.</td>
</tr>
<tr>
<td></td>
<td>LAST SEG = RLP last segmented data message.</td>
</tr>
<tr>
<td></td>
<td>IDLE = RLP idle message.</td>
</tr>
<tr>
<td></td>
<td>ISFF = RLP intersegment fill message.</td>
</tr>
<tr>
<td></td>
<td>NAK = RLP negative acknowledgment fill message.</td>
</tr>
<tr>
<td></td>
<td>SYNC = RLP synchronous message.</td>
</tr>
<tr>
<td></td>
<td>ACK = RLP acknowledgment message.</td>
</tr>
<tr>
<td></td>
<td>SYNC ACK = RLP synchronous acknowledgment message.</td>
</tr>
<tr>
<td></td>
<td>NULL = RLP3 null message.</td>
</tr>
<tr>
<td></td>
<td>SACK = RLP3 synchronous acknowledgment message.</td>
</tr>
<tr>
<td></td>
<td>SEG = RLP3 segmented data message.</td>
</tr>
<tr>
<td></td>
<td>FILL = RLP3 fill frame message.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>ISLP</td>
<td>UI = ISLP unnumbered information frame.</td>
</tr>
</tbody>
</table>

\( z \) = Direction (DIR) of frame or packet or message to trigger upon. Valid value(s):

- RCV = Trigger if the frame or packet or message is received by the switch from the CPE. RCV is the default.
- XMT = Trigger if the frame or packet or message is transmitted from the switch to the CPE.

\( a \) = Offset (OFF) of the number of frames to be recorded after detection of the trigger event (default is 0). Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

\( b \) = Duration (DUR) of the recording session in seconds (default is 3600). Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

\( c \) = Integrated service line unit 2 (ISLU2) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

\( d \) = Line board number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

\( e \) = Line circuit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
Messages manual.

\( f \) = Digital networking unit - synchronous optical network (SONET) (DNU-S) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

\( g \) = Data group (DG) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

\( h \) = Synchronous transport signal (STS) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

\( i \) = Virtual tributary group (VTG) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

\( j \) = Digital signal level 0 (DS0) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

\( k \) = Line group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

\( l \) = Access interface unit (AIU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

\( m \) = AIU pack number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

\( n \) = AIU circuit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

\( p \) = Allows the user to optionally specify the type of messages to be recorded when monitoring LAP D protocol on a frame relay bearer channel. User can request specifically to monitor either control messages or user data. However, if user data recording is requested, only a summary of the user data frame will be recorded, due to the sheer volume of the user data. The summary of the user data frame will contain the address information and the length of the actual user data frame transmitted or received. Valid value(s):

- **CTRL** = Record only control messages. CTRL is the default value.
- **DATA** = Record only a summary of the transmitted or received user data frame.
- **ALL** = Record both control messages and a summary of the transmitted or received user data frame.

\( o \) = Allows the user to optionally specify the type of messages or frames to be recorded when protocol monitoring is on a speech handler or an AUTOPLEX® data trunk. This option can be used with CESHL2 or CESHL3 or RLP protocol. Valid value(s):

- **CTRL** = Requesting recording of control frames (S and I) for CESHL2 protocol. Default value for CESHL2 protocol at level 2 recording.
- **TRAF** = Requesting recording of UI traffic messages for CESHL3 protocol.
- **IP** = Requesting recording of inter-processor messages for CESHL3 protocol. Default value for CESHL3 protocol at level 3 recording.
- **RLP** = Requesting recording of non-idle RLP frames for RLP protocol. Default value for RLP protocol at level 7 recording.
- **ALL** = Requesting recording of all messages for CESHL2 or CESHL3 or RLP protocol. This will result in recording S, I, XID, and, UI frames for CESHL2 protocol, or UI plus IP frames for CESHL3 protocol, or RLP plus idle frames for RLP protocol.
- Packet switching unit (PSU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
- PSU shelf number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
- PSU channel group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
- SONET termination equipment (STE) facility number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
- Virtual tributary member (VTM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
- Peripheral control and timing (PCT) line and trunk unit (PLTU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
- PCT facility interface (PCTFI) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
- Tributary number (T1FAC). Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
- Channel number (CHAN.). Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
- Virtual BRI line number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
- Virtual trunk facility number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
- Virtual trunk channel number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
- IP address field. Valid value is number between 0-255.
- Protocol (PROT) level for PCF (Format 3 and Format 4). Valid value(s):
  - A10 = Monitor the A10 protocol.
  - A11 = Monitor the A11 protocol.
- Protocol's trigger level (TRIGLVL). The default depends on PROT. Valid value(s):

<table>
<thead>
<tr>
<th>PROTOCOL</th>
<th>TRIGLVL</th>
</tr>
</thead>
<tbody>
<tr>
<td>A10</td>
<td>LEVEL7</td>
</tr>
<tr>
<td>A11</td>
<td>LEVEL7</td>
</tr>
</tbody>
</table>

- PCF PM TRIGVAL that terminates the recording session. Valid value(s):

<table>
<thead>
<tr>
<th>Protocol(s):</th>
<th>Value(s):</th>
</tr>
</thead>
<tbody>
<tr>
<td>A10</td>
<td>A10_UNKNOWN = A10 unknown frame type. GRE = A10 GRE frame.</td>
</tr>
<tr>
<td>A11</td>
<td>A11_UNKNOWN = A11 unknown message type.</td>
</tr>
</tbody>
</table>
REGREQ = A11 request message.
REGRPL = A11 reply message.
REGUPD = A11 update message.
REGACK = A11 acknowledge message.

h^2 = Optical interface unit (OIU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

i^2 = Protection group (PG) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

j^2 = Optical carrier level 3 (OC3) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

k^2 = Synchronous transport signal level 1 (STS1) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

NG = No good. The message was not recognized or was not acceptable.

PF = Printout follows. The request has been accepted and is in progress. Followed by the EXC:PM output message.

RL = Retry later. The system is busy.

5. REFERENCES

Input Message(s):

OP:PM
STP:PM

Output Message(s):

EXC:PM
OP:PM
STP:PM

Input Appendix(es):

APP:RANGES

Other Manual(s):
235-105-220 Corrective Maintenance
235-190-104 ISDN Feature Descriptions
235-200-115 CNI Common Channel Signaling
235-200-116 Signaling Gateway Common Channel Signaling
235-600-755 Protocol Error Record Descriptions
235-900-341 National ISDN Basic Rate Interface Specification
EXC:PM-D

Software Release: 5E18(1) and later
Command Group: TRKLN
Application: 5
Type: Input

1. PURPOSE

Requests the monitoring of a particular level 2 or level 3 or level 7 protocol on a given interface terminating on the switch provided the protocol stack to be monitored is supported on the interface.

The monitoring function records frames or packets or messages transmitted or received for the requested recording protocol level. The frames or packets or messages recorded are those surrounding a particular specified event, either a particular frame or packet or message or a particular protocol error record (PER). Refer to the Protocol Error Record Descriptions manual for additional information about a specific PER.

Depending on the protocol, the protocol monitoring session will be recorded on either an SM or a PH. The following table indicates which processor records the protocol exchange. The number of sessions which can concurrently record on a given processor are:

- 8 per office.
- 2 per SM and 4 per SM 2000.
- 2 per PH and PH2.
- 3 per PH3 and PH4.
- 2 per PHV1, PHV2, and PHV3.
- 1 per PH4 connected to frame relay bearer channels (FRBCs).
- 3 per PHE2.

It is very important for the user to understand that when protocol monitoring is turned on to monitor a frame relay bearer channel connected to a PH4, it will result in real time performance degradation of the PH4. Therefore, the user is strongly urged to limit the duration of protocol monitoring session on a frame relay Bearer channel to the absolute bare minimum.

<table>
<thead>
<tr>
<th>PROTOCOL</th>
<th>RECORDING PROCESSOR</th>
</tr>
</thead>
<tbody>
<tr>
<td>LAPD</td>
<td>PH</td>
</tr>
<tr>
<td>LAPF</td>
<td>PH</td>
</tr>
<tr>
<td>LAPB</td>
<td>PH</td>
</tr>
<tr>
<td>X25</td>
<td>PH (B-channel) SM (D-channel)</td>
</tr>
<tr>
<td>X75P</td>
<td>PH</td>
</tr>
<tr>
<td>Q931</td>
<td>SM</td>
</tr>
<tr>
<td>X75</td>
<td>PH</td>
</tr>
<tr>
<td>TMC</td>
<td>SM</td>
</tr>
<tr>
<td>V120</td>
<td>SM</td>
</tr>
<tr>
<td>CESHL2</td>
<td>PHV</td>
</tr>
<tr>
<td>CESHL3</td>
<td>PHV</td>
</tr>
<tr>
<td>RLP</td>
<td>PHV</td>
</tr>
<tr>
<td>ISLP</td>
<td>PHV</td>
</tr>
<tr>
<td>A10</td>
<td>PHE</td>
</tr>
<tr>
<td>A11</td>
<td>PHE</td>
</tr>
</tbody>
</table>

Up to eighty frames or packets or messages can be saved; the total number saved is dependent on the length of each frame or packet or message.

Format 1 is specified when a recording session is to be terminated upon the occurrence of either any PER or a specific PER found on the monitored channel.

Format 2 is specified when a recording session is to be terminated upon the occurrence of a particular frame or packet or message traveling in the specified direction between switch and customer premises equipment (CPE).
Format 3 is introduced with the PCF on PHE2 feature. It is specified when a recording session is to be terminated upon the occurrence of a particular frame or packet or message traveling in the specified direction between switch and the mobile station (MS).

Format 4 is specified when a recording session is to be terminated upon the occurrence of either any PER or a specific PER found on the monitored PCF trunk.

2. FORMAT

[1] EXC:PM,a[,ch=u][,prot=v][,triglvl=w][,plane=p1]. . .
    . . .[,msggrp=o1]per[="x"][,off=a1]. . .
    . . .[,dur=b1][,print][,xlate];

    . . .[,msggrp=o1]trigval=y[,dir=z][,off=a1]. . .
    . . .[,dur=b1][,print][,xlate];

    . . .[,PDSNP=d2-d2-d2-d2]. . .
    . . .[,prot=e2][,triglvl=f2],trigval=g2. . .
    . . .[,dir=z][,off=a1][,dur=b1][,print][,xlate];

    . . .[,PDSNP=d2-d2-d2-d2]. . .
    . . .[,prot=e2][,triglvl=f2],per[="x"] . . .
    . . .[,off=a1][,dur=b1][,print][,xlate];

3. EXPLANATION OF MESSAGE

NOTE: Refer to the Acronym section of the Input Messages manual for the full expansion of acronyms shown in the format.

PER = Terminate the recording session if a valid PER occurs on the channel for the specified trigger protocol. If a protocol error code (PEC) is not specified, then any valid PER for the trigger protocol will terminate the session.

PRINT = Print the output on the ROP.

If the request is initiated from the Master Control Center (MCC) or a supplemental trunk and line workstation (STLWS), the output is automatically printed on the ROP. Any other device requires this option for printing output on the ROP.

XLATE = Translate the hexadecimal data messages of the recording session into ASCII and store the translated output in a file on the moving head disk (MHD) of the administrative module (AM). Translation capability is a "secured feature". If the feature is not activated, the information will be reported in hex format. Translation is not available for all protocols.

The base translation capability is controlled by "special feature" #32. Enhancements to the base translation capability are built on top of the base translation capability. Currently, the translator has
one translation enhancement. The "special feature" #151 enhancement allows translation of the national ISDN (NI) protocol changes. The base translation capability "special feature" #32 supports translation for LAPB, LAPD, LAPF, Q.931 (custom only), X.25, X.75, and RLP protocols. The NI translation capability "special feature" #151 adds translation for Q.931 (National ISDN) protocol, and also to a lesser extent for the X.25 and X.75 (National ISDN changes) protocols.

After the introduction of PCF on PHE2 feature, the translator also allows the translation of A10 and A11 protocols.

If the translation of the protocol is not supported, the information will be reported in hex format. The file name will be formatted atf.xxx where xxx corresponds to the session number of the protocol monitoring session. The protocol translator will store the ASCII translation file (ATF) in a predetermined location. The location is presently /unixa/users/pmtran/atf.xxx. The full path name of the ATF will appear in the ROP output.

a = Line identification. Valid value(s):

AIUEN=c-l^1-m^1-n^1
DEN=c-m-n-o
DN=b
DNUSEOC=c-f^1-r-t
DNUSTMC=c-f^1-r-t
DSLGM=c-q-d-e
IDCUEOC=c-q-r-t
IDCUTMC=c-q-r-t
ILEN=c-q-r-s
INEN=c-f^1-r-s
LCEN=c-j-k-l
LCKEN=c-c^1-k^1-d^1-e^1
MLHG=h-i
NEN=c-f^1-g^1-u^1-h^1-i^1-v^1-j^1
OIUEN=c-h^2-i^2-j^2-k^2-i^1-v^1-j^1
PKTDN=b
PLTEN=c-w^1-x^1-y^1-z^1
PORT=c-p
TKGMN=f-g
PSUEN=c-q^1-r^1-t^1-e
VBRl=c-a^2
VTRK=c-b^2-c^2

b = The directory number.

c = Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

d = Protocol handler (PH) channel group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

e = PH channel member number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

f = Trunk group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
= Trunk group member number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

= Multi-line hunt group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

= Multi-line hunt group member number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

= Integrated services line unit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

= Line group controller number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

= Line card number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

= Digital line and trunk unit (DLTU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

= Digital facility interface number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

= Digital channel number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

= Logical port number.


= Remote terminal (RT) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

= RT Line number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

= Primary/protection identifier. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

= Channel to be monitored (applies only to basic rate interfaces). The default channel will be based on the method of line identification and, optionally, the protocol level to be monitored. The channel option will be required when invoked with the DN or multi-line hunt group line identifiers, and these identifiers reflect multiple packet services. In other words, if a channel cannot be determined (such as, a user has a circuit service on the D-channel, a packet service on the D-channel, and a packet service on the B-channel and all services use the same DN), the request will be denied. It will, however, be accepted if the input message included the appropriate channel option.

= B1-channel. This option can only be used with permanent packet B-channel (PPB).

= B2-channel. This option can only be used with PPB.

= D-channel.

= Primary on-demand packet B-channel (valid for single and multiple on-demand B-channel packet switching). This option can only be used with on-demand B-channel services. With on-demand packet services, either B-channel is available.
for use by the on-demand packet service. There is no direct relationship between
the on-demand packet service and a B-channel. The first B-channel used by the
on-demand packet service is considered the primary channel.

ODPSEC = Secondary on-demand packet B-channel (valid for multiple on-demand B-channel
packet switching only). This option can only be used with on-demand B-channel
services. The second B-channel used by the on-demand packet service is
considered the secondary channel.

v = Protocol level (PROT). Valid value(s):
   CESHL2 = Monitor the CESHL2 protocol.
   CESHL3 = Monitor the CESHL3 protocol.
   ISLP = Monitor the ISLP protocol.
   LAPD = Monitor the LAPD protocol (default, if determined/requested channel is D).
   LAPB = Monitor the LAPB protocol (default, if determined/requested channel is other than
          D).
   LAPF = Monitor the LAPF protocol
   Q931 = Monitor the Q.931 protocol.
   RLP = Monitors the RLP protocol.
   TMC = Monitor the TMC protocol.
   V120 = Monitor the V.120 protocol.
   X25 = Monitor the X.25 protocol.
   X75 = Monitor the X.75 protocol.
   X75P = Monitor the X.75’ protocol.

w = Protocol’s trigger level (TRIGLVL). The default depends on PROT. Valid value(s):

<table>
<thead>
<tr>
<th>PROTOCOL</th>
<th>TRIGLVL</th>
</tr>
</thead>
<tbody>
<tr>
<td>LAPD</td>
<td>LEVEL2</td>
</tr>
<tr>
<td>LAPF</td>
<td>LEVEL2</td>
</tr>
<tr>
<td>LAPB</td>
<td>LEVEL2</td>
</tr>
<tr>
<td>X25</td>
<td>LEVEL3</td>
</tr>
<tr>
<td>X75P</td>
<td>LEVEL3</td>
</tr>
<tr>
<td>Q931</td>
<td>LEVEL3</td>
</tr>
<tr>
<td>X75</td>
<td>LEVEL3</td>
</tr>
<tr>
<td>TMC</td>
<td>LEVEL3</td>
</tr>
<tr>
<td>V120</td>
<td>LEVEL3</td>
</tr>
<tr>
<td>IDLC</td>
<td>LEVEL7</td>
</tr>
<tr>
<td>ATS</td>
<td>LEVEL7</td>
</tr>
<tr>
<td>CESHL2</td>
<td>LEVEL2</td>
</tr>
<tr>
<td>CESHL3</td>
<td>LEVEL3</td>
</tr>
<tr>
<td>RLP</td>
<td>LEVEL7</td>
</tr>
<tr>
<td>ISLP</td>
<td>LEVEL2</td>
</tr>
</tbody>
</table>

The trigger level/protocol must be terminated on the same processor as the recording protocol.

For CESHL2, CESHL3, ISLP, and RLP protocols there is only one triggering level which is the
above indicated default value.

x = Specific PEC to trigger session termination. Refer to the 235-600-755 for details.

This field must be enclosed in double quotation marks.

y = TRIGVAL that terminates the recording session. Valid value(s):

<table>
<thead>
<tr>
<th>Protocol(s)</th>
<th>Value(s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>LAPD</td>
<td>DISC = LAPD disconnect frame.</td>
</tr>
</tbody>
</table>
DM = LAPD disconnected mode frame.
FRMR = LAPD frame reject frame.
I = LAPD information frame.
REJ = LAPD reject frame.
RNR = LAPD receive not ready frame.
RR = LAPD receive ready frame.
SABM = LAPD set asynchronous balanced mode frame.
SABME = LAPD set asynchronous balanced mode extended frame.
UA = LAPD unnumbered acknowledgment frame.
UI = LAPD unnumbered information frame.
XID = LAPD identification frame.

LAPF
DISC = LAPF disconnect frame.
DM = LAPF disconnected mode frame.
FRMR = LAPF frame reject frame.
I = LAPF information frame.
REJ = LAPF reject frame.
RNR = LAPF receive not ready frame.
RR = LAPF receive ready frame.
SABM = LAPF set asynchronous balanced mode frame.
SABME = LAPF set asynchronous balanced mode extended frame.
UA = LAPF unnumbered acknowledgment frame.
UI = LAPF unnumbered information frame.
XID = LAPF identification frame.

LAPB
DISC = LAPB disconnect frame.
DM = LAPB disconnected mode frame.
FRMR = LAPB frame reject frame.
I = LAPB information frame.
REJ = LAPB reject frame.
RNR = LAPB receive not ready frame.
RR = LAPB receive ready frame.
SABM = LAPB set asynchronous balanced mode frame.
SABME = LAPB set asynchronous balanced mode extended frame.
UA = LAPB unnumbered acknowledgment frame.

Q.931
ALERTING = Q.931 alerting message.
ASSOCIATED = Q.931 associate message.
ASSOCIATEDACK = Q.931 associate acknowledgment message.
CALLPROCEED = Q.931 call proceeding message.
CONFERENCE = Q.931 conference message.
CONFERENCEACK = Q.931 conference acknowledgment message.
CONFERENCEREJ = Q.931 conference reject message.
CONNECT = Q.931 connect message.
CONNECTACK = Q.931 connect acknowledgment message.
DISCONNECT = Q.931 disconnect message.
DROP = Q.931 drop message.
DROPACK = Q.931 drop acknowledgment message.
DROPREJECT = Q.931 drop reject message.
FACILITY = Q.931 facility message.
HOLD = Q.931 hold message.
HOLDACK = Q.931 hold acknowledgment message.
HOLDREJECT = Q.931 hold reject message.
INFORMATION = Q.931 information message.
KEYHOLD = Q.931 key hold message.
KEYRELEASE = Q.931 key release message.
KEYSETUP = Q.931 key setup message.
KEYSETUPACK = Q.931 key setup acknowledge message.
MGMTINFO = Q.931 management information message.
NOTIFY = Q.931 notify message.
PROGRESS = Q.931 progress message.
RECONNECT = Q.931 reconnect message.
RECONNECTACK = Q.931 reconnect acknowledgment message.
RECONNECTREJ = Q.931 reconnect reject message.
REDIRECT = Q.931 redirect message.
REGISTER = Q.931 register message.
RELEASE = Q.931 release message.
RELEASECOMP = Q.931 release complete message.
RESTART = Q.931 restart message.
RESTARTACK = Q.931 restart acknowledgment message.
RETRIEVE = Q.931 retrieve message.
RETRIEVEACK = Q.931 retrieve acknowledge message.
RETRIEVEREJ = Q.931 retrieve reject message.
SEGMENT = Q.931 segment message.
SERVICE = Q.931 service message.
SERVICEACK = Q.931 service acknowledgment message.
SETUP = Q.931 setup message.
SETUPACK = Q.931 setup acknowledgment message.
STATUS = Q.931 status message.
STATUSINQ = Q.931 status inquiry message.
TRANSFER = Q.931 transfer message.
TRANSFERACK = Q.931 transfer acknowledgment message.
TRANSFERREJ = Q.931 transfer reject message.

X25
CLEAR = X.25 clear request packet.
CLEARCNF = X.25 clear confirmation packet.
CONN = X.25 call accepted packet.
DATA = X.25 data packet.
DIAG = X.25 diagnostic packet.
INCCALL = X.25 incoming call request packet.
INTR = X.25 interrupt packet.
INTRCNF = X.25 interrupt confirmation packet.
RESET = X.25 reset request packet.
RESETCNF = X.25 reset confirmation packet.
RESTART = X.25 restart request packet.
RESTARTCNF = X.25 restart confirmation packet.
RNR = X.25 receiver not ready packet.
RR = X.25 receiver ready packet.

TMC
CONNECT = TMC connect message.
CONNECTACK = TMC connect acknowledgment message.
DISCONNECT = TMC disconnect message.
INFORMATION = TMC information message.
RELEASE = TMC release message.
RELEASECOMP = TMC release complete message.
SETUP = TMC setup message.
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<tr>
<th>Status</th>
<th>Description</th>
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<tbody>
<tr>
<td>STATUS</td>
<td>TMC status message.</td>
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<tr>
<td>STATUSENQ</td>
<td>TMC status inquiry message.</td>
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<tr>
<td>RESUME</td>
<td>Resume.</td>
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<td>RESUME-ACK</td>
<td>Resume acknowledge.</td>
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<td>SUSPEND</td>
<td>Suspend.</td>
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<td>SUSPEND-ACK</td>
<td>Suspend acknowledge.</td>
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<td>V120</td>
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<td>V.120 begin segment.</td>
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<td>V.120 final segment.</td>
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<td>V120</td>
<td>V.120 single segment.</td>
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<td>X75 or X75P</td>
<td>X.75 or X75 call accepted packet.</td>
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<tr>
<td>X75 or X75P</td>
<td>X.75 or X75 clear request packet.</td>
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<tr>
<td>X75 or X75P</td>
<td>X.75 or X75 clear confirmation packet.</td>
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<tr>
<td>X75 or X75P</td>
<td>X.75 or X75 data packet.</td>
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<tr>
<td>X75 or X75P</td>
<td>X.75 or X75 diagnostic packet.</td>
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<tr>
<td>X75 or X75P</td>
<td>X.75 or X75 incoming call request packet.</td>
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<tr>
<td>X75 or X75P</td>
<td>X.75 or X75 interrupt packet.</td>
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<tr>
<td>X75 or X75P</td>
<td>X.75 or X75 interrupt confirmation packet.</td>
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<tr>
<td>X75 or X75P</td>
<td>X.75 or X75 reset request packet.</td>
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<td>X75 or X75P</td>
<td>X.75 or X75 reset confirmation packet.</td>
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<tr>
<td>X75 or X75P</td>
<td>X.75 or X75 receiver not ready packet.</td>
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<td>X75 or X75P</td>
<td>X.75 or X75 receiver ready packet.</td>
</tr>
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<td>CESHL2</td>
<td>CESHL2 disconnect frame.</td>
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<td>CESHL2</td>
<td>CESHL2 disconnect mode frame.</td>
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<td>CESHL2</td>
<td>CESHL2 S type reject frame.</td>
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<td>CESHL2</td>
<td>CESHL2 information frame.</td>
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<td>CESHL2</td>
<td>CESHL2 receive ready frame.</td>
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<td>CESHL2 receiver not ready frame.</td>
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<td>CESHL2</td>
<td>CESHL2 U type reject frame.</td>
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<tr>
<td>CESHL2</td>
<td>CESHL2 set asynchronous balanced mode extended frame.</td>
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<td>CESHL2</td>
<td>CESHL2 unnumbered acknowledgment frame.</td>
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<td>CESHL2</td>
<td>CESHL2 unnumbered information frame.</td>
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<td>CESHL2</td>
<td>CESHL2 identification frame.</td>
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<td>CESHL3</td>
<td>CESHL3 general burst dual tone multi-frequency (DTMF) message.</td>
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<td>CESHL3</td>
<td>CESHL3 start continuous DTMF message.</td>
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<tr>
<td>CESHL3</td>
<td>CESHL3 stop continuous DTMF message.</td>
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<td>CESHL3</td>
<td>CESHL3 clock adjust message.</td>
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<td>CESHL3</td>
<td>CESHL3 connect message.</td>
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<td>CESHL3</td>
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<td>CESHL3</td>
<td>CESHL3 acknowledgment message.</td>
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<td>CESHL3</td>
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<td>CESHL3</td>
<td>CESHL3 reverse voice traffic message.</td>
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<td>CESHL3</td>
<td>CESHL3 forward voice traffic message.</td>
</tr>
<tr>
<td>Abbreviation</td>
<td>Description</td>
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<td>--------------</td>
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<tr>
<td>FWD VIXED</td>
<td>CESHL3 forward mixed traffic message.</td>
</tr>
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<td>PWRCNTL</td>
<td>CESHL3 power control config.</td>
</tr>
<tr>
<td>ANCSETUP</td>
<td>CESHL3 anchor setup message.</td>
</tr>
<tr>
<td>FSCHREQ</td>
<td>CESHL3 forward supplementary channel request.</td>
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<tr>
<td>FSCHRESP</td>
<td>CESHL3 forward supplementary channel response.</td>
</tr>
<tr>
<td>FSCHREL</td>
<td>CESHL3 forward supplementary channel release.</td>
</tr>
<tr>
<td>RSCHREL</td>
<td>CESHL3 reverse supplementary channel release.</td>
</tr>
<tr>
<td>RSCHABT</td>
<td>CESHL3 reverse supplementary channel abort.</td>
</tr>
<tr>
<td>RSCHREQ</td>
<td>CESHL3 reverse supplementary channel request.</td>
</tr>
<tr>
<td>RSCHRSP</td>
<td>CESHL3 reverse supplementary channel response.</td>
</tr>
<tr>
<td>RSCHASN</td>
<td>CESHL3 reverse supplemental channel assign.</td>
</tr>
<tr>
<td>ANCREL</td>
<td>CESHL3 anchor release.</td>
</tr>
<tr>
<td>RSCHABT</td>
<td>CESHL3 reverse supplemental channel abort.</td>
</tr>
<tr>
<td>SMVCNTL</td>
<td>CESHL3 selectable mode vocoder control.</td>
</tr>
<tr>
<td>TRANSPORT</td>
<td>CESHL3 RLP measurements transport.</td>
</tr>
<tr>
<td>INV</td>
<td>RLP invalid message.</td>
</tr>
<tr>
<td>UNSEG</td>
<td>RLP unsegmented data message.</td>
</tr>
<tr>
<td>FIRST SEG</td>
<td>RLP first segmented data message.</td>
</tr>
<tr>
<td>SECOND SEG</td>
<td>RLP second segmented data message.</td>
</tr>
<tr>
<td>LAST SEG</td>
<td>RLP last segmented data message.</td>
</tr>
<tr>
<td>IDLE</td>
<td>RLP idle message.</td>
</tr>
<tr>
<td>ISFF</td>
<td>RLP intersegment fill message.</td>
</tr>
<tr>
<td>NAK</td>
<td>RLP negative acknowledgment fill message.</td>
</tr>
<tr>
<td>SYNC</td>
<td>RLP synchronous message.</td>
</tr>
<tr>
<td>ACK</td>
<td>RLP acknowledgment message.</td>
</tr>
<tr>
<td>SYNC ACK</td>
<td>RLP synchronous acknowledgment message.</td>
</tr>
<tr>
<td>NULL</td>
<td>RLP3 null message.</td>
</tr>
<tr>
<td>SACK</td>
<td>RLP3 synchronous acknowledgment message.</td>
</tr>
<tr>
<td>SEG</td>
<td>RLP3 segmented data message.</td>
</tr>
<tr>
<td>FILL</td>
<td>RLP3 fill frame message.</td>
</tr>
<tr>
<td>UI</td>
<td>ISLP unnumbered information frame.</td>
</tr>
</tbody>
</table>

**Notes:**
- **z**: Direction (DIR) of frame or packet or message to trigger upon. Valid value(s):
  - RCV: Trigger if the frame or packet or message is received by the switch from the CPE. RCV is the default.
  - XMT: Trigger if the frame or packet or message is transmitted from the switch to the CPE.
- **a**: Offset (OFF) of the number of frames to be recorded after detection of the trigger event (default is 0). Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
- **b**: Duration (DUR) of the recording session in seconds (default is 3600). Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
- **c**: Integrated service line unit 2 (ISLU2) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
- **d**: Line board number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
e = Line circuit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

f = Digital networking unit - synchronous optical network (SONET) (DNU-S) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

g = Data group (DG) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

h = Synchronous transport signal (STS) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

i = Virtual tributary group (VTG) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

j = Digital signal level 0 (DS0) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

k = Line group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

l = Access interface unit (AIU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

m = AIU pack number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

n = AIU circuit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

p = Allows the user to optionally specify the type of messages to be recorded when monitoring LAP D protocol on a frame relay bearer channel. User can request specifically to monitor either control messages or user data. However, if user data recording is requested, only a summary of the user data frame will be recorded, due to the sheer volume of the user data. The summary of the user data frame will contain the address information and the length of the actual user data frame transmitted or received. Valid value(s):

CTRL = Record only control messages. CTRL is the default value.
DATA = Record only a summary of the transmitted or received user data frame.
ALL = Record both control messages and a summary of the transmitted or received user data frame.

o = Allows the user to optionally specify the type of messages or frames to be recorded when protocol monitoring is on a speech handler or an AUTOPLEX® data trunk. This option can be used with CESHL2 or CESHL3 or RLP protocol. Valid value(s):

CTRL = Requesting recording of control frames (S and I) for CESHL2 protocol. Default value for CESHL2 protocol at level 2 recording.
TRAF = Requesting recording of UI traffic messages for CESHL3 protocol.
IP = Requesting recording of inter-processor messages for CESHL3 protocol. Default value for CESHL3 protocol at level 3 recording.
RLP = Requesting recording of non-idle RLP frames for RLP protocol. Default value for RLP protocol at level 7 recording.
ALL = Requesting recording of all messages for CESHL2 or CESHL3 or RLP protocol. This will result in recording S, I, XID, and, UI frames for CESHL2 protocol, or UI plus IP frames for CESHL3 protocol, or RLP plus idle frames for RLP protocol.
q¹ = Packet switching unit (PSU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

r¹ = PSU shelf number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

t¹ = PSU channel group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

u¹ = SONET termination equipment (STE) facility number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

v¹ = Virtual tributary member (VTM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

w¹ = Peripheral control and timing (PCT) line and trunk unit (PLTU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

x¹ = PCT facility interface (PCTFI) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

y¹ = Tributary number (T1FAC). Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

z¹ = Channel number (CHAN.) Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

a² = Virtual BRI line number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

b² = Virtual trunk facility number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

c² = Virtual trunk channel number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

d² = IP address field. Valid value is number between 0-255.

e² = Protocol (PROT) level for PCF (Format 3 and Format 4). Valid value(s):
  A10 = Monitor the A10 protocol.
  A11 = Monitor the A11 protocol.

f² = Protocol's trigger level (TRIGLVL). The default depends on PROT. Valid value(s):

<table>
<thead>
<tr>
<th>PROTOCOL</th>
<th>TRIGLVL</th>
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<tbody>
<tr>
<td>A10</td>
<td>LEVEL7</td>
</tr>
<tr>
<td>A11</td>
<td>LEVEL7</td>
</tr>
</tbody>
</table>

g² = PCF PM TRIGVAL that terminates the recording session. Valid value(s):

<table>
<thead>
<tr>
<th>Protocol(s)</th>
<th>Value(s):</th>
</tr>
</thead>
<tbody>
<tr>
<td>A10_EXP</td>
<td>A10_UNKNOWN = A10 unknown frame type.</td>
</tr>
<tr>
<td></td>
<td>GRE = A10 GRE frame.</td>
</tr>
</tbody>
</table>
A11

A11_UNKNOWN = A11 unknown message type.
REGREQ = A11 request message.
REGRPL = A11 reply message.
REGUPD = A11 update message.
REGACK = A11 acknowledge message.

h^2 = Optical interface unit (OIU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
i^2 = Protection group (PG) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
j^2 = Optical carrier level 3 (OC3) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
k^2 = Synchronous transport signal level 1 (STS1) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

NG = No good. The message was not recognized or was not acceptable.
PF = Printout follows. The request has been accepted and is in progress. Followed by the EXC:PM output message.
RL = Retry later. The system is busy.

5. REFERENCES

Input Message(s):

OP:PM
STP:PM

Output Message(s):

EXC:PM
OP:PM
STP:PM

Input Appendix(es):

APP:RANGES

Other Manual(s):
235-105-220 Corrective Maintenance
235-190-104 ISDN Feature Descriptions
235-200-115 CNI Common Channel Signaling
235-200-116 Signaling Gateway Common Channel Signaling
235-600-755 Protocol Error Record Descriptions
1. PURPOSE

Requests that a protocol monitoring session be started for the ISUP or TCAP protocol based on the values of particular parameters within the message.

The monitoring function records messages transmitted or received for the requested protocol. The messages recorded are those surrounding a particular specified ISUP call or TCAP transaction. A request to monitor ISUP calls will cause a protocol monitoring (PM) session to be started on each operational SM. PM will screen messages in the SMs until the first message matching the input criteria is captured. Once the first message is captured on a particular SM, that SM is the recording processor and screening will terminate in the other SMs. The first message captured will be the Initial Address Message (IAM). Recording will terminate when a Release Complete (RLC), Group Reset Acknowledge (GRA), or Unknown Circuit Identification Code (UCIC) message is captured. A request to monitor TCAP transactions will cause a protocol monitoring (PM) session to be started on each operational SM and the DLN (or AM if no DLN is equipped). PM will screen messages in the SMs, DLN or AM until the first message matching the input criteria is captured. Once the first message is captured on a particular processor, that processor is the recording processor and screening will terminate in the other processors. TCAP transactions using the CNI CCS platform will be recorded in the DLN or AM. TCAP transactions using the PSU CCS platform will be recorded in an SM. The TCAP applications supported are: NS800, CNAM, ASP, AINR0D1, ISVM and LASS. The first message captured will be either a Query (QRY) or Unidirectional (UNI) message. Recording will terminate when a Response (RESP) or Abort (ABORT) message is captured. Depending on the protocol, the PM session will be recorded on either an SM, DLN or AM. The following table indicates which processor records the protocol exchange. Only one PM session is allowed concurrently per protocol (ISUP or TCAP). The maximum number of sessions which can concurrently record on a given processor are:

- 2 per office (one ISUP, one TCAP)
- 2 per SM (one ISUP, one TCAP)
- 1 per DLN or AM (TCAP only)

<table>
<thead>
<tr>
<th>PROTOCOL</th>
<th>RECORDING PROCESSOR</th>
</tr>
</thead>
<tbody>
<tr>
<td>ISUP</td>
<td>SM</td>
</tr>
<tr>
<td>TCAP</td>
<td>SM, DLN or AM</td>
</tr>
</tbody>
</table>

NOTE: The default option for PM output is translation to a file. If the translation fails, the information will be reported in hexadecimal format. The file name will be formatted atf.xxx where xxx corresponds to the session number of the protocol monitoring session. The protocol translator will store the ASCII translation file (ATF) in a predetermined location. The location is presently /unixa/users/pmtran/atf.xxx. The full path name of the ATF will appear in the ROP output.

WARNINGS: Depending on the call traffic, initiating CCS protocol monitoring may cause an overload condition to occur on the screening or recording processor(s). If an overload condition is detected, PM will be terminated on the overloaded processor(s).

If PM is screening or recording messages in the DLN during a DLN switch, the PM session will be terminated in the DLN. Do not cause a DLN switch during a PM session if the DLN is screening or recording.

Format 1 is specified when a recording session is requested for the ISUP protocol.
Format 2 is specified when a recording session is requested for the TCAP protocol.

2. FORMAT

[1] EXC:PMCCS,ISUP,{CALLED=a|CALLING=b},{DIR=c},{DUR=d},{REPEAT=e},{HEXDUMP};

[2] EXC:PMCCS,TCAP,{CALLED=a|CALLING=b},{CDTT=f|CDSN=g|CGSN=h},{LAYER=i}
   {DIR=c},{DUR=d},{REPEAT=e},{HEXDUMP};

3. EXPLANATION OF MESSAGE

Note: Refer to the Acronym section of the Input Messages manual for the full expansion of acronyms shown in the format.

ISUP = Monitor the Integrated Services Digital Network (ISDN) User Part protocol.

TCAP = Monitor the Transaction Capability Application Part protocol.

HEXDUMP = Print the output in hexadecimal format on the receive-only printer (ROP).

a = Called party directory number. Valid values(s): variable length 3-15 digits (no default) This value will be used as the matching criteria for the initial message. For the TCAP protocol, the LAYER parameter identifies the location in the message to match this value.

b = Calling party directory number. Valid values(s): variable length 3-15 digits (no default) This value will be used as the matching criteria for the initial message. For the TCAP protocol, the LAYER parameter identifies the location in the message to match this value. When specifying the CALLING parameter, the LAYER parameter should be set to TCAP. The CALLING party directory number is not available when LAYER is set to SCCP.

c = Direction of the IAM or QRY/UNI message. Valid value(s): RCV, XMT, BOTH (default BOTH) Note: The direction only pertains to the first message matching the input criteria. Once the first message has been captured, subsequent matching messages will be captured in either direction.

d = Duration of the monitoring session in seconds. Valid value(s): For ISUP (1-86400) (default=86400) For TCAP (1-3600) (default=3600)

e = The number of protocol monitoring sessions to be repeated. Valid value(s): 1-10 (default=0)

f = Called party translation type. Valid value(s): 0-255 (no default)

g = Called party subsystem number. Valid value(s): 0-255 (no default) Note: the CDSN parameter is only valid when the DIR parameter is set to RCV or BOTH. Specifying CDSN is not valid when DIR is set to XMT.

h = Calling party subsystem number. Valid value(s): 1-255 (no default)

i = Location in the message to match the TCAP CALLED or CALLING parameter. Valid value(s): SCCP or TCAP (default=SCCP) Note: The location specified as SCCP will match the CALLED party number in the SCCP header (CALLING not available in the SCCP header). The location specified as TCAP will match the CALLED or CALLING party number in the TCAP data portion of the message. The LAYER parameter set to TCAP is valid only when the DIR parameter is set to XMT. That is, matching the CALLED/CALLING parameter in TCAP data is only valid for outbound messages.
4. SYSTEM RESPONSE

NG  = No good. The message was not recognized or was not acceptable.

PF  = Printout follows. The request has been accepted and is in progress. Followed by the EXC:PMCCS output message.

5. REFERENCES

Input Message(s):

  OP:PMCCS
  STP:PMCCS

Output Message(s):

  EXC:PMCCS
  OP:PMCCS
  STP:PMCCS

Other Manual(s):

  235-105-110  Corrective Maintenance Manual
  235-190-120  CCS7 Signaling Service Features
EXC:PMCCS-B

**Software Release:** 5E15 and later  
**Command Group:** CCS  
**Application:** 5  
**Type:** Input  

1. **PURPOSE**

Requests that a protocol monitoring session be started for the ISUP, BICC, or TCAP protocol based on the values of particular parameters within the message.

The monitoring function records messages transmitted or received for the requested protocol. The messages recorded are those surrounding a particular specified ISUP or BICC call or TCAP transaction.

A request to monitor ISUP/BICC calls will cause a protocol monitoring (PM) session to be started on each operational SM. PM will screen messages in the SMs until the first message matching the input criteria is captured. Once the first message is captured on a particular SM, that SM is the recording processor and screening will terminate in the other SMs. The first message captured will be the initial address message (IAM). Recording will terminate when a release complete (RLC), group reset acknowledge (GRA), or unknown circuit identification code (UCIC) message is captured.

A request to monitor TCAP transactions will cause a PM session to be started on each operational SM and the DLN (or AM if no DLN) is equipped. PM will screen messages in the SMs, DLN or AM until the first message matching the input criteria is captured. Once the first message is captured on a particular processor, that processor is the recording processor and screening will terminate in the other processors. TCAP transactions using the CNI CCS platform will be recorded in the DLN or AM. TCAP transactions using the PSU CCS platform will be recorded in an SM. The TCAP applications supported are:

- AINR0D1
- ASP
- CNAM
- ISVM
- LASS
- NS800

The first message captured will be either a query (QRY) or unidirectional (UNI) message. Recording will terminate when a response (RESP) or abort (ABORT) message is captured.

Depending on the protocol, the PM session will be recorded on either an SM, DLN or AM. The following table indicates which processor records the protocol exchange. Only one PM session is allowed concurrently per protocol (ISUP/BICC or TCAP). The maximum number of sessions which can concurrently record on a given processor are:

- 1 per DLN or AM (TCAP only)
- 2 per office (one ISUP/BICC, one TCAP)
- 2 per SM (one ISUP/BICC, one TCAP)

<table>
<thead>
<tr>
<th>PROTOCOL</th>
<th>RECORDING PROCESSOR</th>
</tr>
</thead>
<tbody>
<tr>
<td>ISUP/BICC</td>
<td>SM</td>
</tr>
<tr>
<td>TCAP</td>
<td>SM, DLN or AM</td>
</tr>
</tbody>
</table>

The default option for PM output is translation to a file. If the translation fails, the information will be reported in hexadecimal format. The file name will be formatted `atf.xxx` where `xxx` corresponds to the session number of the protocol monitoring session. The protocol translator will store the ASCII translation file (ATF) in a predetermined location. The location is presently `/unixa/users/pmtran/atf.xxx`. The full path name of the ATF will appear in the ROP output.
Depending on the call traffic, initiating CCS protocol monitoring may cause an overload condition to occur on the screening or recording processor(s). If an overload condition is detected, PM will be terminated on the overloaded processor(s).

If PM is screening or recording messages in the DLN during a DLN switch, the PM session will be terminated in the DLN. Do not cause a DLN switch during a PM session if the DLN is screening or recording.

Format 1 is specified when a recording session is requested for the ISUP or BICC protocol.

Format 2 is specified when a recording session is requested for the TCAP protocol.

2. FORMAT

[1] EXC:PMCCS,ISUP|BICC,{CALLED=a|CALLING=b}[,(DIR=c) . . .,(DUR=d)[,(REPEAT=e)[,(HEXDUMP];

[2] EXC:PMCCS,TCAP,{CALLED=a|CALLING=b}{CDTT=f|CDSN=g|CGSN=h}[(LAYER=i)[,(DIR=c)[,(DUR=d). . .,(REPEAT=e)[,(HEXDUMP];

3. EXPLANATION OF MESSAGE

NOTE: Refer to the Acronym section of the Input Messages manual for the full expansion of acronyms shown in the format.

BICC = Bearer independent call control protocol.

HEXDUMP = Print the output in hexadecimal format on the receive-only printer (ROP).

ISUP = Monitor the integrated services digital network (ISDN) user part protocol.

TCAP = Monitor the transaction capability application part protocol.

a = Called party directory number. [variable length 3-15 digits (no default)]

This value will be used as the matching criteria for the initial message. For the TCAP protocol, the LAYER parameter identifies the location in the message to match this value.

b = Calling party directory number. [variable length 3-15 digits (no default)]

This value will be used as the matching criteria for the initial message. For the TCAP protocol, the LAYER parameter identifies the location in the message to match this value. When specifying the CALLING parameter, the LAYER parameter should be set to TCAP. The CALLING party directory number is not available when LAYER is set to SCCP.

For ISUP/BICC, the calling party directory number is an optional parameter in the IAM message; hence, if a calling party directory number is specified as the matching criteria, it may not always result in a message trap.

c = Direction of the IAM or QRY/UNI message. Valid value(s):
   BOTH = Default.
   RCV
   XMT
The direction only pertains to the first message matching the input criteria. Once the first message has been captured, subsequent matching messages will be captured in either direction.

d = Duration of the monitoring session in seconds. Valid value(s):
   For ISUP/BICC = 1-86400 (default is 86400)
   For TCAP = 1-3600 (default is 3600)

e = The number of protocol monitoring sessions to be repeated. [1-10 (default is 0)]

f = Called party translation type. [0-255 (no default)]

 g = Called party subsystem number. [0-254 (no default)]

Due to protocol monitoring limitations, when CDSN is set to 0, the DIR parameter must be set to XMT. When CDSN is greater than 0, the DIR parameter must be set to RCV. If the DIR parameter is not specified, it will default to the correct direction based on the CDSN specified.

h = Calling party subsystem number. [1-255 (no default)]

i = Location in the message to match the TCAP CALLED or CALLING parameter. Valid value(s):
   SCCP = Default.
   TCAP

The location specified as SCCP will match the CALLED party number in the SCCP header (CALLING not available in the SCCP header). The location specified as TCAP will match the CALLED or CALLING party number in the TCAP data portion of the message. The LAYER parameter set to TCAP is valid only when the DIR parameter is set to XMT. That is, matching the CALLED/CALLING parameter in TCAP data is only valid for outbound messages.

4. SYSTEM RESPONSE

NG = No good. The message was not recognized or was not acceptable.

PF = Printout follows. The request has been accepted and is in progress. Followed by the EXC:PMCCS output message.

5. REFERENCES

Input Message(s):

OP:PMCCS
STP:PMCCS

Output Message(s):

EXC:PMCCS
OP:PMCCS
STP:PMCCS

Other Manual(s):
<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
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</thead>
<tbody>
<tr>
<td>235-105-110</td>
<td>System Maintenance Requirements and Tools</td>
</tr>
<tr>
<td>235-200-115</td>
<td>CNI Common Channel Signaling</td>
</tr>
<tr>
<td>235-200-116</td>
<td>Signaling Gateway Common Channel Signaling</td>
</tr>
</tbody>
</table>
EXC:PREV

Software Release: 5E14 and later
Command Group: NOCHK
Application: 5
Type: Input

1. PURPOSE

Requests that the previous input message entered at this terminal be re-executed. The previous message must have been entered correctly at the same terminal for this request to complete successfully.

2. FORMAT

EXC:PREV;

3. EXPLANATION OF MESSAGE

No variables.

For further information, refer to the input message manual page for the previously executed message.

4. SYSTEM RESPONSE

NG = No good. May also include:
- PREVIOUS MESSAGE MUST NOT BE A HELP REQUEST = The previous message was a help request and cannot be re-executed.
- SYNTAX ERROR IN PREVIOUS MESSAGE = The previous message contained a syntax error and cannot be re-executed.

OK = Good. The previous message will be executed.

5. REFERENCES

None.
**EXC:RCDECODE**

**Software Release:** 5E14 and later  
**Command Group:** ODD  
**Application:** 5  
**Type:** Input

1. **PURPOSE**

Requests the execution of the recent change (RC) or customer originated recent change (CORC) log file decoder. This allows the user to read the RC redundant log file, the RC log file, or CORC log file (Format 1), or read the RC error file (Format 2). This can help in determining what database transactions and CORCs were applied to a module or what transactions or CORCs failed during a roll forward of a module.

2. **FORMAT**

   [1] `EXC:RCDECODE, {REDLOG|PARTLOG|CORCLOG}, {AM|SM=a|CMP=b} [,OFFSET=c] [,LENGTH=d], {ROP|TERM|OUTFILE=e};`

   [2] `EXC:RCDECODE, ERRLOG, {AM|SM=a|CMP=f-b} [,OFFSET=c] [,LENGTH=d], {ROP|TERM|OUTFILE=e};`

3. **EXPLANATION OF MESSAGE**

   **NOTE:** Refer to the Acronym section of the Input Messages manual for the full expansion of acronyms shown in the format.

   - **ERRLOG** = Read the RC log error file.
   - **PARTLOG** = Read the RC log file.
   - **REDLOG** = Read the RC log redundant file.
   - **CORCLOG** = Read the CORC log file.
   - **ROP** = Print the output of RC decoder on the receive-only printer (ROP).
   - **TERM** = Print the output of RC decoder back to requesting terminal.
   - **a** = SM number.
   - **b** = CMP number.
   - **c** = The start offset in bytes, from the beginning of the logfile, to read the file. Default is zero (beginning of log file).
   - **d** = The length, in bytes, of what is to be read. The default is from the start offset to the end of the file.
   - **e** = Directory and name of file in which output will be placed. All files will be placed in a directory specified or in the directory (/tmp) if no directory is specified. Must be surrounded by quotes (for example, `OUTFILE="/updtmp/filename"`), or just a name of file in which output will be placed (for example, `OUTFILE=filename`). There is a 14-character limit on file names.
   - **f** = CM message switch side for the physical CMP error log file. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
4. SYSTEM RESPONSE

PF
Printout follows. The RC decoder is executed. Printout will follow, either to the terminal or ROP, depending on option.

NG
No good. May also include:
- Bad Input File = Invalid input option. The valid option must be one of the followings - REDLOG, PARTLOG, CORCLOG, or ERRLOG.
- Bad Output File = Invalid output device. The valid output device must be one of the followings - ROP, TERM, or an output file name.
- Cannot open output file = Cannot open the specified output file. Make sure that the output file directory has write permission.
- Cannot open input file = Cannot open the specified input file. This shows that either the processor specified is not equipped or no log file existed for that processor.

5. REFERENCES

Input Message(s):

EXC:ODDRCVY

Output Message(s):

REPT:RCDECODE
EXC:ODDRCVY

Input Appendix(es):

APP:RANGES

Other Manual(s):
235-105-250 System Recovery
EXC:RCRLS
Software Release: 5E14 and later
Command Group: RCV
Application: 5
Type: Input

1. PURPOSE
Requests that all recent changes (RCs) previously entered into the delayed release clerk file(s) be released.

2. FORMAT
EXC:RCRLS,{CLERK=a[,VERBOSE] | ODDEVOL[,CONCURRENT],NONCON|, SKIPERR});

3. EXPLANATION OF MESSAGE
CONCURRENT = Divide the evolved RC file into multiple release clerk files and proceed on all files simultaneously.
NONCON = Release RCs in single stream (non-concurrent).
ODDEVOL = Release the evolved RC file.
SKIPERR = Skip over the failed RCs. Use this option ONLY if the releasing of the evolved RC file was stopped because a BKUP:ODD was necessary and it was necessary to reduce the retrofit time interval. The user must release this file again during the "END STAGE" in the "RC reapplication cleanup phase". Directions for this are given in Software Release Retrofit manual.
VERBOSE = Turn on one-line logging message of recent changes (RCs) on the receive-only printer (ROP) for the current session only. The default is no logging.

The one-line logging message has the following format:
RC BATCH SUCCESS|ERROR RC/V-Form-Name RC-Operation Key(s)
TERM-ID=terminal-name CLERK=clerk-name

a = Clerk name entered on the request. Maximum length is eight ASCII characters. (Do not use blanks or special characters.)

4. SYSTEM RESPONSE
PF = Printout follows. The request was accepted. Followed by the EXC:RCRLS output message.

5. REFERENCES
Input Message(s):

OP:RCRLS
STP:RCRLS

Output Message(s):
EXC: RCRLS
OP: RCRLS
RC: BATCH-TERM
RC: INHIBITED
STP: RCRLS

Other Manual(s):

Where (x) is the release-specific version of the specified manual.

235-105-24x  Software Release Retrofit Procedures
EXC:RCRMV

Software Release: 5E14 and later
Command Group: RCV
Application: 5
Type: Input

1. PURPOSE

Removes selected recent changes previously entered into the delayed release clerk file.

2. FORMAT

EXC:RCRMV,CLERK=a[,ALL][,PENDING][,COMPLETE][,ERROR][,DEMAND][,TIME=b-b];

3. EXPLANATION OF MESSAGE

NOTE: The defaults for selection parameters are COMPLETE and ERROR. These are set when none of the following selection parameters are specified.

ALL = Remove all recent changes. Recent changes selected could be pending, completed, error, or demand.

COMPLETE = Remove released recent changes that were successfully completed.

DEMAND = Remove demand recent changes.

ERROR = Remove recent changes released with error.

PENDING = Remove pending recent changes.

a = Clerkname entered on request.

b = The range of times between which records are selected. The time fields are specified in month, day, year, hour, and minute, format with no separators. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual. Leading zeros must be specified. The first time field must specify a time earlier than the second time field. Thus, choosing 0101000000 as the first time field and 1231992300 as the second time field would select all records and this range of time (selecting all records) is the default when no time is specified.

4. SYSTEM RESPONSE

PF = Printout follows. The request was accepted. Followed by the EXC:RCRMV output message.

5. REFERENCES

Input Message(s):

STP:RCRMV

Output Message(s):

EXC:RCRMV
OP:RCRMV
STP: RCRMV

Input Appendix(es):
APP: RANGES
1. PURPOSE

Requests that a remote digital test access (RDTA) connection be set up between the port to be tested and the output facility where the protocol analysis equipment is located. The port under test (PUT) may be a channel on an integrated services digital network (ISDN) basic rate interface (BRI), a channel on an ISDN primary rate interface (PRI), or a trunk using the ISDN protocols such as: IP, XAT, X.75, X.75', and CCS7 ISUP. The two types of output facilities (connections to analysis equipment) are the PRI and pseudo BRI ports. A pseudo BRI is a digital subscriber line (DSL) in which none of its channels are connected to the protocol handler (PH). There are basically two types of RDTA connections that can be set up:

Monitor = This type allows a copy of the receive and transmit data passing over the circuit being tested to be received by the protocol analysis equipment. This is a “hitless” (non-interfering) type of connection. This type of connection includes only the monitor (MON) connection mode.

Interactive = This type allows exchange of data between the PUT and the protocol analysis equipment. This type of connection includes the direct test access connection (DTAC) and all splits such as duplex split (SPLIT), simplex split PH side (SPLITPH), and simplex split PUT side (SPLITPUT).

An RDTA session will be assigned a session number and a duration timer DUR (default is 1 day). At any time during the duration interval, the user may reset the timer by typing a UPD:RDTA message for that active RDTA session. If a session is set up for a period longer than 24-hours, a UPD:RDTA reminder message will print every 24 hours to indicate that the RDTA session is active. Thirty minutes before the termination interval specified on the EXC:RDTA input message, a UPD:RDTA warning message will print to indicate that the RDTA session will be terminated in 30 minutes. The user may keep the active RDTA session alive by responding with a UPD:RDTA input message.

Restrictions apply to certain mode and port type combinations. No split or DTAC may be requested on a BRI port; only a MON may be performed on a BRI. Furthermore, a SPLITPH may not be performed on a circuit-switched trunk; it may only be performed on PRI and packet D-channel connections.

The UCL option is required for all requests to SPLIT, SPLITPH, or SPLITPUT a PRI D-channel. The UCL option is on the PRI B-channels associated with the D-channel. A PRI provisioned with D-channel Backup (DCBU) has two D-channels. An EXC:RDTA session can be requested for one of the two D-channels only. Requesting an EXC:RDTA session on the mate D-channel causes the other EXC:RDTA session to terminate. Before invoking an EXC:RDTA session on the selected D-channel on a PRI with DCBU, the selected D-channel should be in-service (IS) or out-of-service (OOS) blocked for automatic reasons (OOS-BLKD-AUTO), and the mate D-channel must be manually removed. The manual removal of the mate D-channel ensures that the D-channel that the SPLIT, SPLITPH, or SPLITPUT connection is requested for ends up being the D-channel that supports the exchange of protocol traffic.

An RDTA monitor connection may be converted to an interactive split connection. The input data request to split a monitor must match that of the monitor connection to assure the integrity of the request. The option is provided so the user may omit the output facility directory numbers (DN), incoming DN (INDN) and outgoing DN (OUTDN), when inputing format 1. In this case, the appropriate DN(s) will be retained in accordance with the requested split. When the conversion is made the duration timer will be reset but all other information will stay intact, including the session number.

Format 1 is used to set up a new RDTA session or to convert a monitor connection to a split connection. INDN and OUTDN may be omitted when converting a monitor to a split; however, if either is entered, the entries must match.
that of the existing monitor. INDN and OUTDN are required to begin a MON or SPLIT. INDN is required to start the
DTAC and SPLITPUT connections and OUTDN is required to start the SPLITPH connection.

Format 2 must be used after a format one request when successfully monitoring a BRI D-channel on output facilities
located on a different switch from the RDTA session itself. It must be sent to the switch where the output facility
DN(s) are located and must be executed (when doing remote access) in order to obtain the data being monitored.
The function of this format is to select the quarter section of a 64 kb time-slot for placement onto the pseudo BRI
D-channel output facility. The quarter time-slot input to this format for a particular session is given in the EXC:RDTA
output message or may be found by using the OP:RDTA input message. For a BRI D-channel, if the output facility is
on the same switch as the BRI under test, the quarter time-slot on the output facility will be set up correctly.

2. FORMAT

[1] EXC:RDTA,a[,CH=u][,DAS=v][,INDN=w][,OUTDN=x],MODE=y[,UCL]
[,DUR=a1][,BDN=b1][,CUSTID=c1];

[2] EXC:RDTA,INDN=w,OUTDN=x,QTS=z;

3. EXPLANATION OF MESSAGE

Note: Refer to the Acronym section of the Input Messages manual for the full expansion of acronyms
shown in the format.

UCL = Set up split connection unconditionally. The UCL option applies to connection modes SPLIT,
SPLITPH, and SPLITPUT. It will be ignored for all other connection modes. If the PUT is a PRI
D-channel or packet trunk all active calls will be torn down prior to setting up the split connection.
The UCL option is required to set up a split connection on a circuit switch PUT. The UCL option is
also required to set up a split connection on a PRI D-channel.

a = Port identification. Valid value(s): AIUEN=d-l-d* (s1-e*) (s1
BST=b-c
DEN=d-e-f-g
DN=h
ILEN=d-i-j-k
LCEN=d-l-m-n
LCKEN=d-l-m* (s1-d*) (s1-e* (s1
MLHG=o-p
INEN=d-f* (s1-j-k
NEN=d-f* (s1-g*) (s1-h*) (s1-i*) (s1-j*) (s1-k*) (s1-l*) (s1
OAPo=b
OPT=b-c
PKTDN=h
RTRS=q-r
TKGMN=s-t

b = Operator service center number. Refer to the APP:RANGES appendix in the Appendixes section
of the Input Messages manual.

c = Relative position number. Refer to the APP:RANGES appendix in the Appendixes section of the
Input Messages manual.

d = Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section
of the Input Messages manual.

e = Digital line and trunk unit (DLTU) number. Refer to the APP:RANGES appendix in the Appendixes
section of the Input Messages manual.

f = Digital facility interface (DFI) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

g = Digital channel number. If this is a DFI-2, channels 1-24 are associated with T1 A and channels 25-48 are associated with facility T1 B.

h = The DN associated with the ISDN interface port. This parameter can only be used to identify channels associated with DSLs.

i = Integrated digital carrier unit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

j = Remote terminal (RT) number or IDCU digital signal level 1 (DS1) serving PUB43801 number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

k = RT line number or PUB43801 channel. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

l = Integrated services line unit (ISLU) or access interface unit (AIU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

m = Line group controller number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

n = Line card number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

o = Multi-line hunt group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

p = Multi-line hunt group member number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

q = Data link relative group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

r = Data link relative member number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

s = Trunk group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

t = Trunk group member number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

u = Channel type (not valid for DEN and TKGMN port identification). Valid value(s):
   B1 = B1-Channel.
   D  = D-Channel (default).

v = Digit analysis selector (DAS) (routing domain) to be used to specify the correct set of digit analysis tables to translate INDN and OUTDN. This parameter will override the office’s default DAS for RDTA. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
manual.

\(w\) = DN of the output facility where the protocol analyzer accesses the test data sent over the PUT to the switch. This direction is known as incoming. Data sent from the analysis equipment for interaction with the PUT will therefore originate from INDN for all interactive mode connections, except the SPLITPH connection.

\(x\) = DN number of the output facility where the protocol analyzer accesses the test data sent from the switch to the PUT. This direction is known as outgoing. Data sent from the analysis equipment for interaction with the switch will originate from OUTDN for the SPLIT and SPLITPH connections.

\(y\) = Connection mode of the RDTA session. Valid value(s):

- **DTAC** = Direct test access connection (DTAC). This is an interactive connection on a port that does not have a path set up on it. The port under test (PUT) is seized and directly connected to an outgoing port terminating at the protocol analysis equipment.

- **MON** = Monitor. This is a receive-only connection on a busy circuit. A copy of the receive and transmit data being passed over the PUT is transmitted to two individual outgoing ports that terminate at the protocol analysis equipment.

- **SPLIT** = Duplex split. This is an interactive connection on a busy circuit. The existing path on the PUT is broken and each half is connected to an outgoing port terminated at the protocol analysis equipment. This allows interactive testing of both sides of the original path.

- **SPLITPH** = Simplex split protocol handler (PH) side. This is an interactive connection on an ISDN channel nailed-up to a PH. The existing path on the ISDN channel is torn down and the PH associated with the channel being tested is directly connected to an outgoing port terminating to the protocol analysis equipment.

- **SPLITPUT** = Simplex split PUT side. This is an interactive connection on a busy circuit. The existing path on the PUT is broken and the PUT is directly connected to an outgoing port terminating to the protocol analysis equipment.

\(z\) = The quarter time-slot (QTS) (16 kb/s section) of a 64 kb/s unrestricted channel. This output facility pseudo BRI D-channel quarter time-slot corresponds to the quarter time-slot carrying the BRI D-channel data, the PUT data, to the PH.

\(a^1\) = The maximum duration of the RDTA session. The duration timer default is 1 day.

\(b^1\) = The billing directory number that will be passed through the network when routing to the output facilities located in another LATA.

\(c^1\) = The customer identification will identify a leased network customer. Specifying a CUSTID of nonzero value will cause automatic route selection (ARS) routing to be invoked for the leased network. The CUSTID parameter should only be specified when the INDN and/or OUTDN directory numbers will route to output facilities located on a different switch from the RDTA session itself. The CUSTID is required when routing over CCS7 ISUP IMTs (intermachine trunks).

\(d^1\) = Line board number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages Manual.
e\textsuperscript{1} = Line circuit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages Manual.

f\textsuperscript{1} = Digital networking unit - synchronous optical network (SONET) (DNU-S) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages Manual.

g\textsuperscript{1} = Data group (DG) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages Manual.

h\textsuperscript{1} = SONET termination equipment (STE) facility number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages Manual.

i\textsuperscript{1} = Synchronous transport signal (STS) facility number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages Manual.

j\textsuperscript{1} = Virtual tributary group (VTG) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages Manual.

k\textsuperscript{1} = Virtual tributary member (VTM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages Manual.

l\textsuperscript{1} = Digital signal level 0 (DS0) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages Manual.

m\textsuperscript{1} = Line group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages Manual.

4. SYSTEM RESPONSE

PF = Printout follows. The request has been accepted. Followed by the EXC:RDTA output message.

RL = Retry later. Valid value(s):
   - FAILED TO CREATE PROCESS = A system error has occurred. Refer to the TECHNICAL ASSISTANCE portion of the INTRODUCTION section of the Input Messages manual.
   - TOO MANY PROCESSES ACTIVE = The request has been denied, probably due to system load.

5. REFERENCES

Input Message(s):

OP:RDTA
STP:RDTA
UPD:RDTA
VFY:RDTA

Output Message(s):

EXC:RDTA
OP:RDTA
STP:RDTA
1. PURPOSE

Requests that a remote digital test access (RDTA) connection be set up between the port to be tested and the output facility where the protocol analysis equipment is located. The port under test (PUT) may be a channel on an integrated services digital network (ISDN) basic rate interface (BRI), a channel on an ISDN primary rate interface (PRI), or a trunk using the ISDN protocols such as: IP, XAT, X.75, X.75', and CCS7 ISUP. The two types of output facilities (connections to analysis equipment) are the PRI and pseudo BRI ports. A pseudo BRI is a digital subscriber line (DSL) in which none of its channels are connected to the protocol handler (PH). There are basically two types of RDTA connections that can be set up:

Monitor = This type allows a copy of the receive and transmit data passing over the circuit being tested to be received by the protocol analysis equipment. This is a “hitless” (non-interfering) type of connection. This type of connection includes only the monitor (MON) connection mode.

Interactive = This type allows exchange of data between the PUT and the protocol analysis equipment. This type of connection includes the direct test access connection (DTAC) and all splits such as duplex split (SPLIT), simplex split PH side (SPLITPH), and simplex split PUT side (SPLITPUT).

An RDTA session will be assigned a session number and a duration timer DUR (default is 1 day). At any time during the duration interval, the user may reset the timer by typing a UPD:RDTA message for that active RDTA session. If a session is set up for a period longer than 24-hours, a UPD:RDTA reminder message will print every 24 hours to indicate that the RDTA session is active. Thirty minutes before the termination interval specified on the EXC:RDTA input message, a UPD:RDTA warning message will print to indicate that the RDTA session will be terminated in 30 minutes. The user may keep the active RDTA session alive by responding with a UPD:RDTA input message.

Restrictions apply to certain mode and port type combinations. No split or DTAC may be requested on a BRI port; only a MON may be performed on a BRI. Furthermore, a SPLITPH may not be performed on a circuit-switched trunk; it may only be performed on PRI and packet D-channel connections.

The UCL option is required for all requests to SPLIT, SPLITPH, or SPLITPUT a PRI D-channel. The UCL option is on the PRI B-channels associated with the D-channel. A PRI provisioned with D-channel Backup (DCBU) has two D-channels. An EXC:RDTA session can be requested for one of the two D-channels only. Requesting an EXC:RDTA session on the mate D-channel causes the other EXC:RDTA session to terminate. Before invoking an EXC:RDTA session on the selected D-channel on a PRI with DCBU, the selected D-channel should be in-service (IS) or out-of-service (OOS) blocked for automatic reasons (OOS-BLK-D-AUTO), and the mate D-channel must be manually removed (OOS-MTCE-DSBLD). The manual removal of the mate D-channel ensures that the D-channel that the SPLIT, SPLITPH, or SPLITPUT connection is requested for ends up being the D-channel that supports the exchange of protocol traffic.

An RDTA monitor connection may be converted to an interactive split connection. The input data request to split a monitor must match that of the monitor connection to assure the integrity of the request. The option is provided so the user may omit the output facility directory numbers (DN), incoming DN (INDN) and outgoing DN (OUTDN), when inputting format 1. In this case, the appropriate DN(s) will be retained in accordance with the requested split. When the conversion is made the duration timer will be reset but all other information will stay intact, including the session number.

Format 1 is used to set up a new RDTA session or to convert a monitor connection to a split connection. INDN and OUTDN may be omitted when converting a monitor to a split; however, if either is entered, the entries must match that of the existing monitor. INDN and OUTDN are required to begin a MON or SPLIT. INDN is required to start the
DTAC and SPLITPUT connections and OUTDN is required to start the SPLITPH connection.

Format 2 must be used after a format one request when successfully monitoring a BRI D-channel on output facilities located on a different switch from the RDTA session itself. It must be sent to the switch where the output facility DN(s) are located and must be executed (when doing remote access) in order to obtain the data being monitored. The function of this format is to select the quarter section of a 64 kb time-slot for placement onto the pseudo BRI D-channel output facility. The quarter time-slot input to this format for a particular session is given in the EXC:RDTA output message or may be found by using the OP:RDTA input message. For a BRI D-channel, if the output facility is on the same switch as the BRI under test, the quarter time-slot on the output facility will be set up correctly.

2. FORMAT

[1] EXC:RDTA,a[,(CH=u)[,DAS=v][,INDN=w][,OUTDN=x],[MODE=y[,UCL]
[,]DUR=a1][,BDN=b1][,CUSTID=c1];

[2] EXC:RDTA,INDN=w,OUTDN=x,QTS=z;

3. EXPLANATION OF MESSAGE

Refer to the Acronym section of the Input Messages manual for the full expansion of acronyms shown in the format.

UCL = Set up split connection unconditionally. The UCL option applies to connection modes SPLIT, SPLITPH, and SPLITPUT. It will be ignored for all other connection modes. If the PUT is a PRI D-channel or packet trunk all active calls will be torn down prior to setting up the split connection. The UCL option is required to set up a split connection on a circuit switch PUT. The UCL option is also required to set up a split connection on a PRI D-channel.

a = Port identification. Valid value(s):

AIUEN=d-l-d1-e1
BST=b-c
DEN=d-e-f-g
DN=h
ILEN=d-i-j-k
INEN=d-f1-j-k
LCEN=d-l-m-n
LCKEN=d-l-m1-d1-e1
MLHG=o-p
NEN=d-f1-g1-h1-i1-j1-k1-l1
OAP0=b
OPT=b-c
PKTDN=h
PLTEN=d-n1-o1-p1-q1
b = Operator service center number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

c = Relative position number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

d = Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

e = Digital line and trunk unit (DLTU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

f = Digital facility interface (DFI) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

g = Digital channel number. If this is a DFI-2, channels 1-24 are associated with T1 A and channels 25-48 are associated with facility T1 B.

h = The DN associated with the ISDN interface port. This parameter can only be used to identify channels associated with DSLs.

i = Integrated digital carrier unit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

j = Remote terminal (RT) number or IDCU digital signal level 1 (DS1) serving PUB43801 number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

k = RT line number or PUB43801 channel. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

l = Integrated services line unit (ISLU) or access interface unit (AIU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

m = Line group controller number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

n = Line card number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

o = Multi-line hunt group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

p = Multi-line hunt group member number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

q = Data link relative group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

r = Data link relative member number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
s = Trunk group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

t = Trunk group member number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

u = Channel type (not valid for DEN and TKGMN port identification). Valid value(s):

   B1 = B1-Channel.
   D  = D-Channel (default).

v = Digit analysis selector (DAS) (routing domain) to be used to specify the correct set of digit analysis tables to translate INDN and OUTDN. This parameter will override the office's default DAS for RDTA. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

w = DN of the output facility where the protocol analyzer accesses the test data sent over the PUT to the switch. This direction is known as incoming. Data sent from the analysis equipment for interaction with the PUT will therefore originate from INDN for all interactive mode connections, except the SPLITPH connection.

x = DN number of the output facility where the protocol analyzer accesses the test data sent from the switch to the PUT. This direction is known as outgoing. Data sent from the analysis equipment for interaction with the switch will originate from OUTDN for the SPLIT and SPLITPH connections.

y = Connection mode of the RDTA session. Valid value(s):

   DTAC = Direct test access connection (DTAC). This is an interactive connection on a port that does not have a path set up on it. The port under test (PUT) is seized and directly connected to an outgoing port terminating at the protocol analysis equipment.

   MON = Monitor. This is a receive-only connection on a busy circuit. A copy of the receive and transmit data being passed over the PUT is transmitted to two individual outgoing ports that terminate at the protocol analysis equipment.

   SPLIT = Duplex split. This is an interactive connection on a busy circuit. The existing path on the PUT is broken and each half is connected to an outgoing port terminated at the protocol analysis equipment. This allows interactive testing of both sides of the original path.

   SPLITPH = Simplex split protocol handler (PH) side. This is an interactive connection on a ISDN channel nailed-up to a PH. The existing path on the ISDN channel is torn down and the PH associated with the channel being tested is directly connected to an outgoing port terminating to the protocol analysis equipment.

   SPLITPUT = Simplex split PUT side. This is an interactive connection on a busy circuit. The existing path on the PUT is broken and the PUT is directly connected to an outgoing port terminating to the protocol analysis equipment.

z = The quarter time-slot (QTS) (16 kb/s section) of a 64 kb/s unrestricted channel. This output facility
pseudo BRI D-channel quarter time-slot corresponds to the quarter time-slot carrying the BRI
D-channel data, the PUT data, to the PH.

a¹ = The maximum duration of the RDTA session. The duration timer default is 1 day.

b¹ = The billing directory number that will be passed through the network when routing to the output
facilities located in another LATA.

c¹ = The customer identification will identify a leased network customer. Specifying a CUSTID of
nonzero value will cause automatic route selection (ARS) routing to be invoked for the leased
network. The CUSTID parameter should only be specified when the INDN and/or OUTDN directory
numbers will route to output facilities located on a different switch from the RDTA session itself. The
CUSTID is required when routing over CCS7 ISUP IMTs (intermachine trunks).

d¹ = Line board number. Refer to the APP:RANGES appendix in the Appendixes section of the Input
Messages Manual.

e¹ = Line circuit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input
Messages Manual.

f¹ = Digital networking unit - synchronous optical network (SONET) (DNU-S) number. Refer to the

g¹ = Data group (DG) number. Refer to the APP:RANGES appendix in the Appendixes section of the
Input Messages Manual.

h¹ = SONET termination equipment (STE) facility number. Refer to the APP:RANGES appendix in the
Appendixes section of the Input Messages Manual.

i¹ = Synchronous transport signal (STS) facility number. Refer to the APP:RANGES appendix in the
Appendixes section of the Input Messages Manual.

j¹ = Virtual tributary group (VTG) number. Refer to the APP:RANGES appendix in the Appendixes
section of the Input Messages Manual.

k¹ = Virtual tributary member (VTM) number. Refer to the APP:RANGES appendix in the Appendixes
section of the Input Messages Manual.

l¹ = Digital signal level 0 (DS0) number. Refer to the APP:RANGES appendix in the Appendixes
section of the Input Messages Manual.

m¹ = Line group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input
Messages Manual.

n¹ = Peripheral Control and Timing (PCT) Line and Trunk Unit (PLTU) number. Refer to the

o¹ = PCT Facility Interface (PCTFI) number. Refer to the APP:RANGES appendix in the Appendixes
section of the Input Messages Manual.

p¹ = Tributary number. Refer to the APP:RANGES appendix in the Appendixes section of the Input
Messages Manual.

q¹ = Channel number. Refer to the APP:RANGES appendix in the Appendixes section of the Input
Messages Manual.
4. SYSTEM RESPONSE

PF = Printout follows. The request has been accepted. Followed by the EXC:RDTA output message.

RL = Retry later. May also include:
- FAILED TO CREATE PROCESS = A system error has occurred. Refer to the TECHNICAL ASSISTANCE portion of the INTRODUCTION section of the Input Messages manual.
- TOO MANY PROCESSES ACTIVE = The request has been denied, probably due to system load.

5. REFERENCES

Input Message(s):

OP : RDTA
STP : RDTA
UPD : RDTA
VFY : RDTA

Output Message(s):

EXC : RDTA
OP : RDTA
STP : RDTA
UPD : RDTA
VFY : RDTA

Input Appendix(es):

APP : RANGES

Other Manual(s):
235-105-110 System Maintenance Requirements and Tools
235-190-104 ISDN Feature Description
235-900-341 National ISDN Basic Rate Interface Specification
1. PURPOSE

Requests that a remote digital test access (RDTA) connection be set up between the port to be tested and the output facility where the protocol analysis equipment is located. The port under test (PUT) may be a channel on an integrated services digital network (ISDN) basic rate interface (BRI), a channel on an ISDN primary rate interface (PRI), or a trunk using the ISDN protocols such as: IP, XAT, X.75, X.75', and CCS7 ISUP. The two types of output facilities (connections to analysis equipment) are the PRI and pseudo BRI ports. A pseudo BRI is a digital subscriber line (DSL) in which none of its channels are connected to the protocol handler (PH). There are basically two types of RDTA connections that can be set up:

Interactive = This type allows exchange of data between the PUT and the protocol analysis equipment. This type of connection includes the direct test access connection (DTAC) and all splits such as duplex split (SPLIT), simplex split PH side (SPLITPH), and simplex split PUT side (SPLITPUT).

Monitor = This type allows a copy of the receive and transmit data passing over the circuit being tested to be received by the protocol analysis equipment. This is a "hitless" (non-interfering) type of connection. This type of connection includes only the monitor (MON) connection mode.

An RDTA session will be assigned a session number and a duration timer DUR (default is 1 day). At any time during the duration interval, the user may reset the timer by typing a UPD:RDTA message for that active RDTA session. If a session is set up for a period longer than 24-hours, a UPD:RDTA reminder message will print every 24 hours to indicate that the RDTA session is active. Thirty minutes before the termination interval specified on the EXC:RDTA input message, a UPD:RDTA warning message will print to indicate that the RDTA session will be terminated in 30 minutes. The user may keep the active RDTA session alive by responding with a UPD:RDTA input message.

Restrictions apply to certain mode and port type combinations. No split or DTAC may be requested on a BRI port; only a MON may be performed on a BRI. Furthermore, a SPLITPH may not be performed on a circuit-switched trunk; it may only be performed on PRI and packet D-channel connections.

The UCL option is required for all requests to SPLIT, SPLITPH, or SPLITPUT a PRI D-channel. The UCL option is on the PRI B-channels associated with the D-channel. A PRI provisioned with D-channel Backup (DCBU) has two D-channels. An EXC:RDTA session can be requested for one of the two D-channels only. Requesting an EXC:RDTA session on the mate D-channel causes the other EXC:RDTA session to terminate. Before invoking an EXC:RDTA session on the selected D-channel on a PRI with DCBU, the selected D-channel should be in-service (IS) or out-of-service (OOS) blocked for automatic reasons (OOS-BLK-D-AUTO), and the mate D-channel must be manually removed (OOS-MTCE-DSBLD). The manual removal of the mate D-channel ensures that the D-channel that the SPLIT, SPLITPH, or SPLITPUT connection is requested for ends up being the D-channel that supports the exchange of protocol traffic.

An RDTA monitor connection may be converted to an interactive split connection. The input data request to split a monitor must match that of the monitor connection to assure the integrity of the request. The option is provided so the user may omit the output facility directory numbers (DN), incoming DN (INDN) and outgoing DN (OUTDN), when inputing format 1. In this case, the appropriate DN(s) will be retained in accordance with the requested split. When the conversion is made the duration timer will be reset but all other information will stay intact, including the session number.

Format 1 is used to set up a new RDTA session or to convert a monitor connection to a split connection. INDN and OUTDN may be omitted when converting a monitor to a split; however, if either is entered, the entries must match that of the existing monitor. INDN and OUTDN are required to begin a MON or SPLIT. INDN is required to start the...
DTAC and SPLITPUT connections and OUTDN is required to start the SPLITPH connection.

Format 2 must be used after a format one request when successfully monitoring a BRI D-channel on output facilities located on a different switch from the RDTA session itself. It must be sent to the switch where the output facility DN(s) are located and must be executed (when doing remote access) in order to obtain the data being monitored. The function of this format is to select the quarter section of a 64 kb time-slot for placement onto the pseudo BRI D-channel output facility. The quarter time-slot input to this format for a particular session is given in the EXC:RDTA output message or may be found by using the OP:RDTA input message. For a BRI D-channel, if the output facility is on the same switch as the BRI under test, the quarter time-slot on the output facility will be set up correctly.

2. FORMAT

[1] EXC:RDTA,a[,CH=u][,DAS=v][,INDN=w][,OUTDN=x],MODE=y[,UCL]
   [,DUR=a][,BDN=b][,CUSTID=c];

[2] EXC:RDTA,INDN=w,OUTDN=x,QTS=z;

3. EXPLANATION OF MESSAGE

Refer to the Acronym section of the Input Messages manual for the full expansion of acronyms shown in the format.

UCL = Set up split connection unconditionally. The UCL option applies to connection modes SPLIT, SPLITPH, and SPLITPUT. It will be ignored for all other connection modes. If the PUT is a PRI D-channel or packet trunk all active calls will be torn down prior to setting up the split connection. The UCL option is required to set up a split connection on a circuit switch PUT. The UCL option is also required to set up a split connection on a PRI D-channel.

a = Port identification. Valid value(s):
   AIUEN=d-l-d1-e1
   BST=b-c
   DEN=d-e-f-g
   DN=h
   ILEN=d-i-j-k
   INEN=d-f1-j-k
   LCEN=d-l-m-n
   LCKEN=d-l-m1-d1-e1
   MLHG=o-p
   NEN=d-f1-g1-h1-i1-j1-k1-l1
   OAPO=b
   OPT=b-c
   PKTDN=h
PLTEN=d-n^1-o^1-p^1-q^1
RTRS=q-r
TKGMN=s-t
OIUEN=d-r^1-s^1-h^1-i^1-j^1-k^1-l^1

b = Operator service center number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

c = Relative position number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

d = Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

e = Digital line and trunk unit (DLTU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

f = Digital facility interface (DFI) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

g = Digital channel number. If this is a DFI-2, channels 1-24 are associated with T1 A and channels 25-48 are associated with facility T1 B.

h = The DN associated with the ISDN interface port. This parameter can only be used to identify channels associated with DSLs.

i = Integrated digital carrier unit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

j = Remote terminal (RT) number or IDCU digital signal level 1 (DS1) serving PUB43801 number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

k = RT line number or PUB43801 channel. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

l = Integrated services line unit (ISLU) or access interface unit (AIU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

m = Line group controller number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

n = Line card number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

o = Multi-line hunt group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

p = Multi-line hunt group member number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

q = Data link relative group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
= Data link relative member number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

s = Trunk group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

t = Trunk group member number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

u = Channel type (not valid for DEN and TKGMN port identification). Valid value(s):
   B1 = B1-Channel.
   D  = D-Channel (default).

v = Digit analysis selector (DAS) (routing domain) to be used to specify the correct set of digit analysis tables to translate INDN and OUTDN. This parameter will override the office’s default DAS for RDTA. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

w = DN of the output facility where the protocol analyzer accesses the test data sent over the PUT to the switch. This direction is known as incoming. Data sent from the analysis equipment for interaction with the PUT will therefore originate from INDN for all interactive mode connections, except the SPLITPH connection.

x = DN number of the output facility where the protocol analyzer accesses the test data sent from the switch to the PUT. This direction is known as outgoing. Data sent from the analysis equipment for interaction with the switch will originate from OUTDN for the SPLIT and SPLITPH connections.

y = Connection mode of the RDTA session. Valid value(s):
   DTAC = Direct test access connection (DTAC). This is an interactive connection on a port that does not have a path set up on it. The port under test (PUT) is seized and directly connected to a outgoing port terminating at the protocol analysis equipment.
   MON = Monitor. This is a receive-only connection on a busy circuit. A copy of the receive and transmit data being passed over the PUT is transmitted to two individual outgoing ports that terminate at the protocol analysis equipment.
   SPLIT = Duplex split. This is an interactive connection on a busy circuit. The existing path on the PUT is broken and each half is connected to an outgoing port terminated at the protocol analysis equipment. This allows interactive testing of both sides of the original path.
   SPLITPH = Simplex split protocol handler (PH) side. This is an interactive connection on a ISDN channel nailed-up to a PH. The existing path on the ISDN channel is torn down and the PH associated with the channel being tested is directly connected to an outgoing port terminating at the protocol analysis equipment.
   SPLITPUT = Simplex split PUT side. This is an interactive connection on a busy circuit. The existing path on the PUT is broken and the PUT is directly connected to an outgoing port terminating to the protocol analysis equipment.

z = The quarter time-slot (QTS) (16 kb/s section) of a 64 kb/s unrestricted channel. This output facility pseudo BRI D-channel quarter time-slot corresponds to the quarter time-slot carrying the BRI D-channel data, the PUT data, to the PH.
a^1 = The maximum duration of the RDTA session. The duration timer default is 1 day.

b^1 = The billing directory number that will be passed through the network when routing to the output facilities located in another LATA.

c^1 = The customer identification will identify a leased network customer. Specifying a CUSTID of nonzero value will cause automatic route selection (ARS) routing to be invoked for the leased network. The CUSTID parameter should only be specified when the INDN and/or OUTDN directory numbers will route to output facilities located on a different switch from the RDTA session itself. The CUSTID is required when routing over CCS7 ISUP IMTs (intermachine trunks).

d^1 = Line board number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages Manual.

e^1 = Line circuit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages Manual.

f^1 = Digital networking unit - synchronous optical network (SONET) (DNU-S) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages Manual.

g^1 = Data group (DG) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages Manual.

h^1 = SONET termination equipment (STE) facility number. For OIU-NAR, it is OC-3. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages Manual.

i^1 = Synchronous transport signal (STS) facility number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages Manual.

j^1 = Virtual tributary group (VTG) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages Manual.

k^1 = Virtual tributary member (VTM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages Manual.

l^1 = Digital signal level 0 (DS0) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages Manual.

m^1 = Line group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages Manual.

n^1 = Peripheral control and timing (PCT) line and trunk unit (PLTU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages Manual.

o^1 = PCT facility interface (PCTFI) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages Manual.

p^1 = Tributary number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages Manual.

q^1 = Channel number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages Manual.

r^1 = Optical Interface Unit (OIU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages Manual.
s^1 = Protection Group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages Manual.

4. SYSTEM RESPONSE

PF = Printout follows. The request has been accepted. Followed by the EXC:RDTA output message.

RL = Retry later. May also include:
   - FAILED TO CREATE PROCESS = A system error has occurred. Refer to the TECHNICAL ASSISTANCE portion of the INTRODUCTION section of the Input Messages manual.
   - TOO MANY PROCESSES ACTIVE = The request has been denied, probably due to system load.

5. REFERENCES

Input Message(s):

OP:RDTA
STP:RDTA
UPD:RDTA
VFY:RDTA

Output Message(s):

EXC:RDTA
OP:RDTA
STP:RDTA
UPD:RDTA
VFY:RDTA

Input Appendix(es):

APP:RANGES

Other Manual(s):
235-105-110 System Maintenance Requirements and Tools
235-190-104 ISDN Feature Description
235-900-341 National ISDN Basic Rate Interface Specification
EXC:REMACS
Software Release: 5E14 and later
Command Group: AUDIT
Application: 5,CNI
Type: Input

1. PURPOSE
Requests that control operations be performed on the remote access subsystem (REMACS) data audit, or requests the status of that subsystem.

2. FORMAT
EXC:REMACS: {INH | ALW | STATUS | CYCLE=a | FREQ=b};

3. EXPLANATION OF MESSAGE

ALW = Allow the running of the REMACS data audit. This is the default state of the REMACS data audit.

INH = Inhibit the running of the REMACS data audit and abort any previous requested cycle(s) that may be running. This inhibit will remain in effect as long as common network interface (CNI) does not perform a level 4 initialization. Once this occurs the inhibit will have to be entered again.

STATUS = Display the current status of the REMACS data audit; if the audit is running or is cycling, the current frequency of invocation is also displayed. If the audit is cycling the current cycle count will be displayed.

a = Number of cycles to be run. The audit must already be inhibited and currently not cycling for this input message to be honored by REMACS.

b = Frequency of invocation. Each time REMACS is invoked, REMACS runs the data audit on a portion of REMACS data; this input message modifies the frequency of data audit invocation each time REMACS itself is invoked. For example if REMACS is invoked every 200 milliseconds and the data audit frequency of invocation is 3, then the data audit will be run once every 600 milliseconds. The data audit frequency of invocation is initially set to 1 (data audit invoked each time REMACS itself is invoked).

4. SYSTEM RESPONSE
PF = Printout follows. Followed by the EXC:REMACS output message.

5. REFERENCES
Output Message(s):

EXC:REMACS
REMACS: AUD-ERR

Other Manual(s):
235-190-120 Common Channel Signaling Service Features
235-600-400 Audits
EXC:REORG

Software Release: 5E14 and later
Command Group: ODD
Application: 5
Type: Input

1. PURPOSE

Runs the reorganization of the database relations immediately. This does not change the automatic run time set by the SET:REORG input message.

NOTE: If this message is requested while automatic relation reorganization has been manually inhibited with the INH:REORG input message, reorganization of data base relations will not be done. Automatic relation reorganization can be allowed with the ALW:REORG input message.

2. FORMAT

EXC:REORG;

3. EXPLANATION OF MESSAGE

No variables.

4. SYSTEM RESPONSE

PF = Printout follows. Followed by the REPT:REORG output message.

5. REFERENCES

Input Message(s):

ALW: REORG
INH: REORG
SET: REORG

Output Message(s):

REPT: REORG

Other Manual(s):
235-105-220 Corrective Maintenance
EXC:REX-CM-SM

Software Release: 5E14 and later
Command Group: MAINT
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Requests routine exercises (REX) of the hardware in the communication module (CM) and all switching modules (SMs) or in the CM or in a range of SMs be executed. The demand mode or the verbose mode can be specified.

Format 1 describes the SM message syntax, and Format 2 describes the CM message syntax.

WARNING: This message may result in severe traffic interruption if the DEMAND option is used.

2. FORMAT

\[1\] EXC:REX,SM=a[&b][,c][,RPT=d][,VERBOSE][,DEMAND];

\[2\] EXC:REX,CM,e[,VERBOSE];

3. EXPLANATION OF MESSAGE

DEMAND = Start the REX in the demand mode. Default is the non-demand mode. Do not use the DEMAND option if the SM is cut-over and taking live traffic, as this results in severe traffic interruption. The DEMAND option is specified only when the SM is in the pre-cut state (that is, not in operation and taking no live traffic.) This mode is provided to test the circuits that are not tested in normal mode because, when they are taken out of service for test, the subtending trunks are also taken out of service. The demand-only phases of the circuit diagnostics are also run during this mode.

VERBOSE = Print each unit completion message on the receive-only printer (ROP) and on the terminal that requested it. (Default is not to print the completion message for each unit, but still print failures for each unit on the ROP.)

a = Number of the SM on which REX is to start running, or the lower limit of a range of SM numbers.

b = Upper limit on a range of SM numbers.

c = REX test type to be executed (default is to execute all three test types). Valid value(s):

DGN = Execute the summary of diagnostic tests.
ELS = Execute the summary of electronic loop segregation tests.
FAB = Execute the summary of fabric exerciser tests of grids.

\[d\] = Repeat times when installation mode is on (default is 1). Valid value(s):

0 = Repeat forever.
1-7 = Repeat number.

e = REX test type to be executed. Valid value(s):

DGN = Execute the summary of diagnostic tests.
SWITCH = Switch the CM hardware states only.

**NOTE:** If neither CM nor SM is specified, the hardware will be tested in the CM and all of the operational SMs.

### 4. SYSTEM RESPONSE

NG = No good. The request was not a valid entry.

PF = Printout follows. Request is valid and is followed by the EXC:REX output message. However, dependent on equipment and traffic loads, REX may not start for 2-10 minutes, at which time it will print its start message. Refer to the EXC:REX output message. Any status input messages relating to REX will not indicate REX starting until this time.

RL = Retry later. SM is in an abnormal state. The request cannot be executed now.

### 5. REFERENCES

**Input Message(s):**

RCV:M-IREX  
STP:REX-CM-SM

**Output Message(s):**

EXC:REX

**Other Manual(s):**

235-100-125  *System Description*
EXC:RG1AUD

**Software Release:** 5E14 and later  
**Command Group:** CCS  
**Application:** 5,CNI  
**Type:** Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Provides the ability to exercise operations in the stand-by ring (ring1) on demand. Allows for the possible detection of ring one problems prior to it affecting the performance of the transport system.

**WARNING:** Use of the UCL option, which permits the ring 1 audit to run on a ring with an isolated segment, could affect ring operation due to the increased message load, and should be used ONLY when instructed by support personnel.

2. FORMAT

EXC:RG1AUD[:[RATE=a][,DUR=b][,APAT=c|UPAT=d][:UCL]]

3. EXPLANATION OF MESSAGE

- **UCL** = Unconditional request. Will enable the execution of the ring 1 audit even if node isolation exists.
- **a** = Declares rate at which ring 1 messages will be transmitted. Valid value(s):
  - LOW (Default)
  - MED
  - HIGH
- **b** = Declares the duration in minutes the ring 1 audit will execute. Range is 1 - 480. Default value is 10.
- **c** = Declares the test pattern to be repeated in the ring 1 audit message. Valid value(s):
  - AUD1 (Default)
  - AUD2
  - AUD3
- **d** = Declares a user-defined test pattern to be repeated in the ring 1 audit message. For example: H'1234ABCD This parameter is of type long.

4. SYSTEM RESPONSE

**PF** = Printout follows. Followed by the EXC:RG1AUD output message. The REPT RG1AUD output message will be the output at the end of the duration (1 - 480 minutes) of the audit if the audit is successful. Refer to the EXC:RG1AUD output message for additional information.
5. REFERENCES

IM/OM References:

None.
EXC:RT-PROV

Software Release: 5E14 and later
Command Group: TRKLN
Application: 5
Type: Input

1. PURPOSE

Requests the provisioning of a TR303 remote terminal (RT) on an Integrated Digital Carrier Unit (IDCU) or Digital Network Unit SONET (DNU-S).

2. FORMAT

[1] EXC:RT,PROV,LIN{E=(I|IEN)=(c-d-e-f);

[2] EXC:RT,PROV,AL|GNOFAC|DS1FAC),
   {SID=b|{IDCURT|DNUSRT}=c-d-e-f;

3. EXPLANATION OF MESSAGE

a = Type of provisioning request. Valid Value(s):
LINE = Provision an analog or digital line. IDCU or DNU-S line equipment number
   (ILEN/INEN) must accompany this request type.
ALL = Provision all data on an RT.
GLOBAL = Provision global data on an RT.
IFAC = Provision an IDCURT digital signal level 1 (DS1) facility.
DS1SFAC = Provision a DNUSRT digital signal level 1 (DS1) facility.

b = Site identification (SID) number of the RT. Refer to the APP:RANGES appendix in the Appendixes
   section of the Input Messages manual.

c = Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section
   of the Input Messages manual.

d = unit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input
   Messages manual.

e = Local RT (LRT) number. Refer to the APP:RANGES appendix in the Appendixes section of the
   Input Messages manual.

f = RT line number. Refer to the APP:RANGES appendix in the Appendixes section of the Input
   Messages manual.

4. SYSTEM RESPONSE

PF = Printout follows. Followed by the EXC:RT-PROV output message.

NG = No good. May also include:
   - NO TR303 RT FOUND = The request has been denied. The message is valid, but the specified
      RT is not a TR303 RT.
   - UNIT DOES NOT EXIST = The request has been denied. The message is valid, but the
      requested RT does not exist in the database.
= Retry later. May also include:
- CANNOT CREATE TERMINAL PROCESS = The request cannot be executed now due to unavailable system resources for creating a terminal process.

5. REFERENCES

Input Message(s):

OP:RT-PROV

Output Message(s):

EXC:RT-PROV
OP:RT-PROV
REPT:RT-PROV

Input Appendix(es):

APP:RANGES

Other Manual(s):
235-105-110 System Maintenance Requirements and Tools
EXC:RTRACK

Software Release: 5E14 and later
Command Group: CCS
Application: CNI
Type: Input

1. PURPOSE

2. FORMAT

EXC:RTRACK[,a];

3. EXPLANATION OF MESSAGE

a = The ring peripheral controller node (RPCN) or link node (LN) to be isolated. Valid value(s):
   - RPCNd=0
   - LNx=c

b = A ring node group number with explicit leading zero for group numbers less than 10. Refer to the
   APP:RANGES appendix in the Appendixes section of the Input Messages manual.

c = The node’s position in the ring node group. Refer to the APP:RANGES appendix in the
   Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

IP = In progress.
NG = No good. The request was not accepted; reason will follow.
PF = Printout follows. Followed by the EXC:RTRACK output message. If accepted, ring tracker begins
     iteratively isolating one node at a time until a stable ring configuration is found. If a node was
     specified with the input message, Ring Tracker begins isolation with that node.
     Once the ring tracker mode is entered, a REPT:RING-CFR output message is output once every 15
     minutes for as long as ring tracker is active.
RL = Retry later.

5. REFERENCES

Input Message(s):
   ALW:RTRACK
   INH:RTRACK
   OP:RTRACK
   STOP:RTRACK

Output Message(s):
ALW: RTRACK
EXC: RTRACK
INH: RTRACK
OP: RTRACK
REPT: RING-CFR
STOP: RTRACK

Input Appendix(es):

APP: RANGES
EXC:S7RPT

Software Release: 5E15 and later
Command Group: CCS
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Activates an observation scope for all selected blocking, reset, unblocking, continuity, circuit query, and circuit validation CCSMTCE messages.

All selected blocking, reset, unblocking, continuity, circuit query, and circuit validation messages for trunks assigned to the specified origination point code (OPC), destination point code (DPC), and optional circuit identification code (CIC) would be reported. This input message has no affect if the ALW:S7RPT input message has not been entered. It is used with SET:S7RPT to start viewing CCSMTCE messages. Requesting this message may cause large amounts of data to be printed on the ROP. By request, the output message generated by this input message can be saved in a daily log file.

WARNING: Should system operation be impacted by this message:

- The input message STP:S7RPT, can be used to halt observation on a specific scope.
- The input message SET:S7RPT, can be used to halt observation on a specific type.
- The input message INH:S7RPT, can be used to halt observation on all scopes and turn off the ALW:S7RPT input message.

2. FORMAT

EXC:S7RPT,OPC=a,DPC=b[,CIC=c];

3. EXPLANATION OF MESSAGE

a = Origination point code (OPC).
b = Destination point code (DPC).
c = Circuit identification code (CIC).

4. SYSTEM RESPONSE

NG = No good. May also include:
- FEATURE NOT AVAILABLE = The input message cannot be used in this office. The office should be upgraded.
- S7RPT NOT ALLOWED = The ALW:S7RPT input message must be issued for SET:S7RPT input message to have any affect.
- HARDWARE NOT OPERATIONAL = The office does not have SS7 trunks.
- PARAMETER COMBINATION ERROR = The input message parameter combination is wrong.
- **OBSERVATION SCOPE CONFLICT** = Entered different scope than the active one.
- **OBSERVATION SCOPE LIMIT REACHED** = Two OPC,DPC or OPC,DPC,CIC observation scopes are already active.

**PF** = Printout follows. Followed by the EXC:S7RPT Output Messages message.

### 5. REFERENCES

**Input Message(s):**

ALW:S7RPT
INH:S7RPT
STP:S7RPT
OP:S7RPT

**Output Message(s):**

EXC:S7RPT
**EXC:S7XCHK**

**Software Release:** 5E15 and later  
**Command Group:** CCS  
**Application:** 5  
**Type:** Input

**WARNING:** INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. **PURPOSE**

Execute a demand cross check (S7XCHK) request. These requests locate and optionally correct inconsistencies between AMPCI7GR/GMPCI7GR and PC7GR.

Inconsistencies are only reported by default, but can be corrected by using the CORRECT=Y option.

**WARNING:** When CNI-PSU Conversion is running, no S7XCHK request can be run.

Only one S7XCHK request can be run at a time.

Format 1 is used to initiate a cross check process on every provisioned SM in the office.

Format 2 is used to initiate a cross check process on a specified SM or range of SMs.

2. **FORMAT**

[1] EXC:S7XCHK,OFFICE[,TYPE=a][,CORRECT=d];

[2] EXC:S7XCHK,SM=b[&c][TYPE=a][,CORRECT=d];

3. **EXPLANATION OF MESSAGE**

a  
= Type of cross check requested. Valid value(s):
PC7GR  = PC7GR cross check.

b  
= Switching module.

c  
= Optional end of range of switching modules.

d  
= Correction status indicator. Valid value(s):
N  = Only report inconsistent tuples.
Y  = Correct inconsistent tuples.

4. **SYSTEM RESPONSE**

NG  
= No good. The request has been denied. May also include:
- CNI2PSU CONVERSION IN PROGRESS = Conversion is in progress, therefore no cross checks can be requested.
- SM DOES NOT EXIST = The switching module requested does not exist in the office.
PF = Printout follows. The request has been accepted. Followed by the EXC:S7XCHK output message.

RL = Retry later. May also include:
- PCI7GR CROSS CHECK IN PROGRESS = A cross check request can only execute if no other S7XCHK requests are running.

5. REFERENCES

Other Manual(s):
235-200-115  CNI Common Channel Signaling
235-200-116  Signaling Gateway Common Channel Signaling
EXC:SCHED

Software Release: 5E14 and later
Command Group: MAINT
Application: 5
Type: Input

1. PURPOSE

Requests that a routine exercise (REX) and/or automatic line insulation test (ALIT) schedule be generated based on the equipment present. Optionally updates recent change and verify (RC/V) views 8.1 and 8.3.

2. FORMAT

[1] EXC:SCHED:REX[,RDAYS=a[-a...]][,RSTART=bbbb][,RDUR=c][,UPD];
[3] EXC:SCHED:ALL[,RDAYS=a[-a...]][,RSTART=bbbb][,RDUR=c][,AEND=dddd][,ADUR=e][,UPD];

3. EXPLANATION OF MESSAGE

ALL = Generate both REX and ALIT schedules.
UPD = Update the office-dependent data (ODD) relating to REX and/or ALIT, using RC/V views 8.1 (OFFICE PARAMETERS (MISCELLANEOUS)) and 8.3 (ROUTINE EXERCISE SCHEDULE). Make sure that RC/V is not inhibited. Otherwise, no update action will be taken. If ODD update completed successfully, multiple 'REPT:RCV APPTEXT COMPLETED...' messages will be displayed on the terminal screen.
a = Days in which REX is allowed to be scheduled. Legal values range from 1 (Monday) through 7 (Sunday). Thus, RDAYS=1-3-5 would restrict REX to run only on Monday, Wednesday and Friday. RDAYS=1-2-3-4-5 would indicate that REX should run on weekdays only. Default is to schedule REX for all seven days of the week (same as RDAYS=1-2-3-4-5-6-7).
b = REX start time given in 24-hour format (for example, 0130 = 1:30 AM). Default is REX starts at midnight.
c = Number of hours (integer values only) that REX is to be run daily (default is 6). Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
d = ALIT end time given in 24-hour format (for example, 0130 = 1:30 AM). Default is ALIT ends at midnight.
e = Number of hours (integer values only) that ALIT is to run daily. (Default=5 or the time required to test all lines, whichever is shorter.)

4. SYSTEM RESPONSE

PF = Printout follows. The request was accepted. Followed by the REPT:SCHED output message.
NG = No good. The request has been denied. The message form is valid, but the request conflicts with current status.
5. REFERENCES

Input Message(s):

ALW: RC  
INH: RC

Output Message(s):

REPT: SCHED

Input Appendix(es):

APP: RANGES

Other Manual(s):
235-105-210  *Routine Operations and Maintenance*

RC/V View(s):

  8.1 [OFFICE PARAMETERS (MISCELLANEOUS)]  
  8.3 (ROUTINE EXERCISE SCHEDULE)
EXC:SODD-RED-OP

Software Release: 5E14 and later
Command Group: AUDIT
Application: 5
Type: Input

1. PURPOSE

Displays the relation currently being audited by the redundant static office dependent data (SODD) audit (invoked by EXC:SODD,RED). The message returned is: “EXC SODD RED IN PROGRESS REL <relation name>“. Relations are audited in the order determined by the relation ID which is a numeric identifier.

2. FORMAT

EXC:SODD:RED:OP;

3. EXPLANATION OF MESSAGE

No variables.

4. SYSTEM RESPONSE

PF = Printout follows.

RL = Retry later. The request cannot be accepted now. Cannot signal the audit when it is not currently running.

Refer to the User Guidelines section of the Input Messages manual for additional system responses.

5. REFERENCES

Input Message(s):

EXC:SODD-RED
EXC:SODD-STP
1. PURPOSE

Requests an audit of the redundant (RED) relations to check for split translations in the static office-dependent data (SODD). Redundant relations are relations that are supposed to be exactly the same in more than one processor, the set of processors being determined by the relation distribution type. These relations include most of the routing, charging and digit analysis translations.

The redundant static data audit checks redundant relations, which have the distribution type of LR, FR, LRFR, or LPFR. This audit detects any corrupt tuples (tuples with the same key with different contents), extra tuples and missing tuples. All detected errors are printed to the output file. The following is a description of the distribution types:

- Logical redundant (LR) = Redundant relations that should be the same in the communications module processor (CMP) and the administrative module (AM).
- Fixed redundant (FR) = Redundant relations that should be the same in all the switching modules (SMs).
- Logical redundant fixed redundant (LRFR) = Redundant relations that should be the same in the CMP, the AM, and all the SMs.
- Logical processor fixed redundant (LPFR) = Relations that should be the same in either the CMP or AM, depending on the application, and all the SMs.

The audit works by calculating the checksum of the relation for each of the processors the relation is on. It groups the processors according to their checksums for the relation. All processors returning the same checksum are grouped together. If the relation checksum for each of the processors is the same, the relation is assumed to be free of errors. Otherwise, the master processor is taken from the group with the largest number of processors. The remaining groups are the "suspect" groups. Note that a master processor and a suspect processor are determined for each relation.

A processor from the first suspect group is chosen to compare with the master processor. The audit does a checksum on all of the tuples for the relation on the master processor and on all the tuples for the relation on the suspect processor. Identical checksums are removed and the remaining tuples from the master processor are compared to the remaining tuples from the suspect processor to determine which tuples are missing, extra or corrupt. This is then repeated for each of the suspect groups.

If the START and REL keywords are omitted from the input message line then all of the static redundant ODD relations are audited. If the REL keyword is used, then just the relation specified will be audited. If the START keyword is used, the audit will start with the specified relation and then audit all relations after this relation. The relations are ordered by ascending relation identifier.

The EXC:SODD-STOP and EXC:SODD-RED-OP input messages may be used to stop the audit prematurely or to check the status of the audit, respectively.

The audit's output file contains a listing of all errors found. Each error message contains an error number, the type of error, the relation name, a list of processors where the error occurs, and the tuple in error. For corrupt tuples, both the corrupt tuple and the correct version of the tuple are printed. In addition to tuple listings, the error file contains a
list of any other errors encountered during the audit. These errors may include loss of communication with a processor, DB primitive failures, or resource problems.

2. FORMAT

EXC:SODD:RED[,REL=a] [,START=b],OUTFILE=c;

3. EXPLANATION OF MESSAGE

RED = Verify redundant relations across all the processors.

a = Relation to be audited. Only one redundant relation is requested to be audited. If the relation name has an underscore, the name must be placed in quotation marks. If REL is specified, any START argument will be ignored. The default is to audit all redundant relations.

Logical redundant (LR) relations:

<table>
<thead>
<tr>
<th>Relations</th>
</tr>
</thead>
<tbody>
<tr>
<td>DBCPRERG</td>
</tr>
<tr>
<td>GLOBDOM</td>
</tr>
<tr>
<td>LAB6PRT</td>
</tr>
<tr>
<td>LAB8_PCI</td>
</tr>
</tbody>
</table>

Fixed redundant (FR) relations:

<table>
<thead>
<tr>
<th>Relations</th>
</tr>
</thead>
<tbody>
<tr>
<td>AGB CF</td>
</tr>
<tr>
<td>ACGT CF</td>
</tr>
<tr>
<td>AGCFPX</td>
</tr>
<tr>
<td>AG CF</td>
</tr>
<tr>
<td>AG CODET</td>
</tr>
<tr>
<td>AG DES1X</td>
</tr>
<tr>
<td>AG TGRP</td>
</tr>
<tr>
<td>AG TKCT</td>
</tr>
<tr>
<td>AC ALL</td>
</tr>
<tr>
<td>AC MCCID</td>
</tr>
<tr>
<td>AM TKGRP</td>
</tr>
<tr>
<td>ANIMOD</td>
</tr>
<tr>
<td>ARCF</td>
</tr>
<tr>
<td>AR CF</td>
</tr>
<tr>
<td>AR LNSI</td>
</tr>
<tr>
<td>ASI CF</td>
</tr>
<tr>
<td>ATH CF</td>
</tr>
<tr>
<td>AT CF</td>
</tr>
<tr>
<td>BCL CF</td>
</tr>
<tr>
<td>BCLDEF</td>
</tr>
<tr>
<td>CC 00X</td>
</tr>
<tr>
<td>CC QMFPA</td>
</tr>
<tr>
<td>CF CF</td>
</tr>
<tr>
<td>CHG TBL</td>
</tr>
<tr>
<td>CHK LST</td>
</tr>
<tr>
<td>CH HGDXEXP</td>
</tr>
</tbody>
</table>

Logical redundant fixed redundant (LRFR) relations:

<table>
<thead>
<tr>
<th>Relations</th>
</tr>
</thead>
<tbody>
<tr>
<td>CMAPDATA</td>
</tr>
<tr>
<td>CTINFO</td>
</tr>
<tr>
<td>GPID NET</td>
</tr>
</tbody>
</table>

Logical processor fixed redundant (LPFR) relations:

<table>
<thead>
<tr>
<th>Relations</th>
</tr>
</thead>
<tbody>
<tr>
<td>BCL GRP</td>
</tr>
<tr>
<td>BCL MHTG</td>
</tr>
<tr>
<td>COT CF</td>
</tr>
<tr>
<td>DSTD RR</td>
</tr>
</tbody>
</table>

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If specified, 'b' is a relation name that will be used as a starting point for the audit. The ordering of the relations is by ascending relation identifier, an integer assigned to relations. By default, the audit starts at the first relation.

This argument specifies where the output from the SODD audit will be placed (such as, OUTFILE="test1"). All files will be placed in the "/rclog" directory. Outfile name may be up to 14 characters long and may not contain a slash (/). Use upper case letters or enclose the outfile name in quotes.

Output files can be printed with the following message: DUMP:FILE,ALL,FN="/rclog/test1";

files can be removed from the "/rclog" directory with the following message: CLR:FILESYS,FILE,FN="/rclog/test1";

4. SYSTEM RESPONSE

NG
= No good. Valid value(s):
- CANNOT OPEN OUTPUT FILE = The outfile cannot be opened in the directory (/rclog). Check the outfile name and retry the message.
- INVALID OUTFILE NAME = The outfile name may not contain a slash (/). Check the outfile name and retry the message.

PF
= Printout follows. The request was received and followed by the EXC:SODD-RED output message.

RL
= Retry later. Request cannot be accepted now. Cannot start the audit while one is already in progress or cannot signal audit when it is not currently running. Standard system responses also apply.

5. REFERENCES

Input Message(s):

CLR:FSYS-FILE
DUMP:F-ALL
EXC:SODD-RED-OP
EXC:SODD-STP

Output Message(s):

EXC:SODD-RED

Other Manual(s):

Where 'x' is the release-specific version of the specified manual.

235-600-10x Translations Data
**EXC:SODD-STP**

**Software Release:** 5E14 and later  
**Command Group:** AUDIT  
**Application:** 5  
**Type:** Input

1. **PURPOSE**

Requests that the current static data audit be stopped. Static data audits check for split translations in the static office-dependent data (SODD).

This message will set a stop flag that is global to the static data audits. The static data audits periodically check this flag and terminate if it is set.

2. **FORMAT**

```plaintext
EXC:SODD:STP;
```

3. **EXPLANATION OF MESSAGE**

No variables.

4. **SYSTEM RESPONSE**

- **NG** = No good. The request has been denied. Check the format and retry the message.
- **PF** = Printout follows. The request was received and followed by the EXC:SODD-STP output message. After the audit completes, the output can be found in the output file specified in directory (/rclog).
- **RL** = Retry later. No static data audit running at this time.

5. **REFERENCES**

**Input Message(s):**

- EXC:SODD-BRCS  
- EXC:SODD-ISDN  
- EXC:SODD-LINE  
- EXC:SODD-MLHG  
- EXC:SODD-PSMHG  
- EXC:SODD-PSTRK  
- EXC:SODD-RED  
- EXC:SODD-TRUNK

**Output Message(s):**

- EXC:SODD-STP
EXC:SRVT

**Software Release:** 5E14 and later  
**Command Group:** CCS  
**Application:** 5,CNI  
**Type:** Input

1. PURPOSE

Requests that the signaling connection control port (SCCP) routing verification test (SRVT) be initiated.

2. FORMAT

```
EXC:SRVT:TYPE=a,DIGITS=b[,TPC=c][,NTSP=d][,TRACE];
```

3. EXPLANATION OF MESSAGE

- **TRACE**
  - If this keyword is present, a list of TSPs crossed during the test will be included in the output. If this keyword is not present, a list of TSPs crossed will be included only when an error occurs and one or more TSPs had been crossed when the error occurred. No TRACE word will appear if not requested.
  
  - **a**
    - The translation type. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
  
  - **b**
    - The digits in the global title, 19 digit maximum (such as, an 800 number).
  
  - **c**
    - The translation point code (TPC) to which the initiator should address and send an SRVT message. If not included, the default is chosen by common network interface (CNI) based on the translation type. CNI will send more than one SRVT message if more than one unique TPC is returned.
    
    Must be entered in one of the following formats:
    
    - `eeefffggg` = ANSI® standard.  
    - `eeehhfggg` = AT&T standard.
    
    Note: Non-local network point codes always use ANSI® standard format.
  
  - **d**
    - The maximum number of translation signaling points (TSPs) allowed to be crossed (default 1). Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
  
  - **e**
    - The network identifier.
  
  - **f**
    - The cluster identifier.
  
  - **g**
    - The member identifier.
  
  - **h**
    - The region identifier.

4. SYSTEM RESPONSE

- **PF**
  - Printout follows. Followed by the EXC:SRVT output message.
5. REFERENCES

Input Message(s):

CHG: SRVT
OP: TPC

Output Message(s):

CHG: SRVT
EXC: SRVT
OP: TPC

Input Appendix(es):

APP: RANGES

Other Manual(s):
235-190-120 Common Channel Signaling Service Features
EXC:UCL

Software Release: 5E14 and later
Command Group: N/A
Application: 5,3B
Type: Input

1. PURPOSE

Requests that the user shell accept an input message that it previously rejected because it was not represented in
the input message catalog database.

When operating in the full capability mode, the user shell will reject any input message that is not represented in the
input message (IM) catalog database, with an error acknowledgement. Consequently, a missing or erroneous entry
in the IM catalog will cause the user shell to reject the associated input message, even if it is typed correctly. If this
should occur, the user can force the user shell to accept the message and attempt to execute it by entering the
EXC:UCL input message immediately following the error acknowledgement. This input message affects only the
message immediately preceding the rejected input message. It will not cause the user shell to re-execute a
successful message or a message with a syntax error, and it has no effect on any subsequent message. If it is used
to force the user shell to execute an invalid input message, the invalid message will be rejected by the program that
processes it.

This input message may be used only when the shell is operating in the full capability mode. It will be rejected if the
shell is operating in the partial capability mode or limp mode.

2. FORMAT

EXC:UCL;

3. EXPLANATION OF MESSAGE

No variables.

4. SYSTEM RESPONSE

NG = No good. The input message has been rejected because:
- 'EXC:UCL' INVALID IN PART MODE
- CFTSHL CANNOT EXECUTE 'EXC:UCL' ITSELF
- PREVIOUS COMMAND HAD A SYNTAX ERROR
- NO PREVIOUS COMMAND AVAILABLE

OK = Good. Followed by the input message to be executed, its acknowledgement, and any resulting
output messages. Refer to the manual page for the previously-executed input message.

5. REFERENCES

Other Manual(s):
235-105-110 System Maintenance Requirements and Tools
EXC:UT-CMP-A

Software Release: 5E14 only
Command Group: SFTUTIL
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Format 1 requests that an unconditional call to a function using parameters in the specified communication module processor (CMP) be executed.

Format 2 requests that a transfer of execution to an absolute address in the specified CMP be executed. This message may be used together with any of the other CMP generic utility input messages (refer to the input messages listed in the References section). If this message is used together with other generic utility messages, the END:UT-CMP input message may be used to signal the end of the series of messages.

WARNING: The user takes responsibility for any effects on system operation that result from the use of this input message. Know the effects of the message before using it.

2. FORMAT

[1] EXC:UT:CMP=a,{MATE|PRIM},CALL,{FUNC="b"|SYMIDX=c}[,ARG=d,PARM=e[-e...]}{!|;}

3. EXPLANATION OF MESSAGE

MATE = Execute this input message on the standby CMP.
PRIM = Execute this input message on the active CMP.
a = CMP number.
b = Function name to be called. The name is entered as a string of up to 15 characters, enclosed in double quotation marks. If the symbol name is greater than 15 characters the symbol index number 'c' must be used to enter this input message using symbolic access. The function's symbol index number can be determined by using the DUMP:UT-SYMID input message.
c = Symbol index number of function. The symbol index can be determined for this processor by using the DUMP:UT-SYMID input message.
d = Number of parameters being passed to function. Must be a number from 0 to 10.
e = The parameters to be passed (maximum of 10). They must be 2 bytes apiece. If more than one parameter is to be entered, they should be entered as a list (separated by a dash). If the parameters are addresses, the high byte must be input before the low byte.
f = Transfer processor to this absolute address. This is only valid in WHEN breakpoint clauses.
4. SYSTEM RESPONSE

Refer to the APP:UT-IM-REASON appendix in the Appendixes section of the Input Messages manual.

5. REFERENCES

Input Message(s):

ALW: UT-CMP
CLR: UT-CMP
COPY: UT-CMP
DUMP: UT-CMP
DUMP: UT-SYMID
ELSE: UT-CMP
END: UT-CMP
IF: UT-CMP
IF: UT-CMP-ENDIF
INH: UT-CMP
LOAD: UT-CMP
OP: UT-CMP
WHEN: UT-CMP

Output Message(s):

EXC: UT-CMP

Input Appendix(es):

APP: UT-IM-REASON

Other Manual(s):

235-105-110  System Maintenance Requirements and Tools
EXC:UT-CMP-B

**Software Release:** 5E15 and later  
**Command Group:** SFTUTIL  
**Application:** 5  
**Type:** Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

### 1. PURPOSE

Format 1 requests that an unconditional call to a function using parameters in the specified communication module processor (CMP) be executed.

Note: This format shows the format of the function call to be used when the switch CM complex is a Model 2 or earlier.

Format 2 requests that an unconditional call to a function using parameters in the specified communication module processor (CMP) be executed.

Note: This format shows the format of the function call to be used when the switch CM complex is a Model 3.

Format 3 requests that a transfer of execution to an absolute address in the specified CMP be executed.

This message may be used together with any of the other CMP generic utility input messages (see the input messages listed in the References section).

If this message is used together with other generic utility messages, the END:UT-CMP input message may be used to signal the end of the series of messages.

**WARNING:** The user takes responsibility for any effects on system operation that result from the use of this input message. Know the effects of the message before using it.

### 2. FORMAT

1. EXC:UT-CMP=a, {MATE|PRIM}, CALL, {FUNC="b" | SYMIDX=c } [, ARG=d, PARM=e [-e...]] {!|;}
3. EXC:UT-CMP=a, {MATE|PRIM}, GOTO, ADDR=g {!|;}

### 3. EXPLANATION OF MESSAGE

- **MATE** = Execute this input message on the standby CMP.
- **PRIM** = Execute this input message on the active CMP.
- **a** = CMP number.
b = Function name to be called. The name is entered as a string of up to 15 characters, enclosed in double quotation marks. If the symbol name is greater than 15 characters the symbol index number \( c \) must be used to enter this input message using symbolic access. The function's symbol index number can be determined by using the DUMP:UT-SYMID input message.

c = Symbol index number of function. The symbol index can be determined for this processor by using the DUMP:UT-SYMID input message.

d = The number of shorts being passed in PARM list 'f' to the called functions stack (0 to 10).

e = Stack parameter information to be presented to called function. The stack information to be passed (maximum of 10); must be 2 bytes each. If more than one parameter is to be entered, the parameters should be entered as a list (separated by a dash). This information will be packed together to form up to 20 bytes of data which is installed in the same order given by this input message.

- If switch CM complex is Model 2 or earlier, the compiler rules state that all parameters passed to a function are presented on the stack.

- If switch CM complex is a Model 3, the compiler rules state that the first 8 parameters (Note: each parameter is 1 to 4 bytes in length) are passed in registers, one "C code" parameter per each register loaded sequentially. These first 8 parameters are passed using field(s) 'f' of this message. Stack parameter will only be used when the number of parameters passed to the called function exceeds eight or a structure of greater than eight bytes is to be passed to the function.

f First 8 parameters (Note: each parameter is 1 to 4 bytes in length) are passed in registers, one "C code" parameter per each register loaded sequentially. If the number of parameters passed to the called function exceeds eight or a structure of greater than eight bytes is to be passed, the fields 'd' and 'e' must be used to pass the information.

1 If switch CM complex is Model 2 or earlier, the R[1-8] fields are set to zero and not used.

2 If switch CM complex is a Model 3, the compiler rules state that the first 8 parameters (Note: each parameter is 1 to 4 bytes in length) are passed in registers, one "C code" parameter per each register loaded sequentially. Stack parameter fields 'd' and 'e' will only be used when the number of parameters passed to the called function exceeds eight or a structure of greater than eight bytes is to be passed to the function.

g = Transfer processor to this absolute address. This is only valid in WHEN breakpoint, matching WHEN (switch CM complex Model 3 only), address access WHEN (switch CM complex Model 3 only), and data access WHEN (switch CM complex Model 3 only) clauses.

h = Size of the function return value. Needed only when the function returns a structure. Maximum supported return size structure is 100 bytes. Default to zero.

4. SYSTEM RESPONSE

Refer to the APP:UT-IM-REASON appendix in the Appendixes section of the Input Messages manual.

5. REFERENCES

Input Message(s):
Output Message(s):

EXC:UT-CMP

Input Appendix(es):

APP:UT-IM-REASON

Other Manual(s):

System Maintenance Requirements and Tools
EXC:UT-CMPMSG-A

Software Release: 5E14 only
Command Group: SFTUTIL
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Requests that an unconditional call to a function using parameters in the specified communication module processor (CMP) message handler (CMPMSGH) be executed.

WARNING: The user takes responsibility for any effects on system operation that result from the use of this input message. Know the effects of the message before using it.

2. FORMAT

EXC:UT:CMPMSG=a-b,CALL,{FUNC="c"|SYMIDX=d}[,ARG=e,PARM=f[-f...]];

3. EXPLANATION OF MESSAGE

a = Message switch side. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

b = CMPMSG number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

c = Function name to be called. The name is entered as a string of up to 15 characters, enclosed in double quotation marks. If the symbol name is greater than 15 characters the symbol index number 'd' must be used to enter this input message using symbolic access. The function's symbol index number can be determined by using the DUMP:UT-SYMID input message.

d = Symbol index number of function. The symbol index can be determined for this processor by using the DUMP:UT-SYMID input message.

e = The number of parameters being passed to function (0 to 10).

f = The parameters to be passed (maximum of 10); must be 2 bytes each. If more than one parameter is to be entered, the parameters should be entered as a list (separated by a dash). If the parameters are addresses, the high byte must be input before the low byte.

4. SYSTEM RESPONSE

Refer to the APP:UT-IM-REASON appendix in the Appendixes section of the Input Messages manual.

5. REFERENCES

Input Message(s):

DUMP:UT-SYMID
Output Message(s):
   EXC : UT-CMPMSG

Input Appendix(es):
   APP : RANGES
   APP : UT-IM-REASON

Output Appendix(es):
   APP : UT-OM-REASON

Other Manual(s):
235-105-110  System Maintenance Requirements and Tools
EXC:UT-CMPMSG-B

Software Release: 5E15 and later
Command Group: SFTUTIL
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Requests that an unconditional call to a function using parameters in the specified communication module processor (CMP) message handler (CMPMSGH) be executed.

WARNING: The user takes responsibility for any effects on system operation that result from the use of this input message. Know the effects of the message before using it.

NOTE: This input message is valid on processors of the communications module model 1 and 2. It will be accepted but denied on the communications module model 3. Use the EXC:UT:MSGS AP input message for equivalent functionality on processors of the communications module model 3.

2. FORMAT

EXC:UT:CMPMSG=a-b,CALL,{FUNC="c"|SYMIDX=d}[,ARG=e,PARM=f [-f...]];

3. EXPLANATION OF MESSAGE

a = Message switch side. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

b = CMPMSG number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

c = Function name to be called. The name is entered as a string of up to 15 characters, enclosed in double quotation marks. If the symbol name is greater than 15 characters the symbol index number 'd' must be used to enter this input message using symbolic access. The function's symbol index number can be determined by using the DUMP:UT-SYMID input message.

d = Symbol index number of function. The symbol index can be determined for this processor by using the DUMP:UT-SYMID input message.

e = The number of parameters being passed to function (0 to 10).

d = The parameters to be passed (maximum of 10); must be 2 bytes each. If more than one parameter is to be entered, the parameters should be entered as a list (separated by a dash). If the parameters are addresses, the high byte must be input before the low byte.

4. SYSTEM RESPONSE

Refer to the APP:UT-IM-REASON appendix in the Appendixes section of the Input Messages manual.

5. REFERENCES
Input Message(s):

DUMP: UT-SYMID

Output Message(s):

EXC: UT-CMPMSG

Input Appendix(es):

APP: RANGES
APP: UT-IM-REASON

Output Appendix(es):

APP: UT-OM-REASON

Other Manual(s):

235-105-110 System Maintenance Requirements and Tools
EXC:UT-DNUS

Software Release: 5E14 and later
Command Group: SFTUTIL
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Requests that an unconditional call be made to a function using parameters in the specified digital networking unit - SONET (DNU-S).

WARNING: The user is responsible for any effects on system operation that result from the use of this input message. Know the effects of the message before using it.

2. FORMAT

EXC:UT:DNUS=a-b, CALL, {FUNC="c"|SYMIDX=d}, ARG=e, PARM=f[-f]...[-f]{!|;}

3. EXPLANATION OF MESSAGE

a = Switching module (SM) number.
b = DNU-S number.
c = Function name to be called. The name is entered as a string of up to 15 characters, enclosed in double quotation marks. If the symbol name is greater than 15 characters the symbol index number 'd' must be used to enter this input message using symbolic access. The function's symbol index number can be determined by using the DUMP:UT-SYMID input message.
d = Symbol index number of function. The symbol index can be determined for this processor by using the DUMP:UT-SYMID input message.
e = Number of parameters being passed to function (range is 0-10) (default is 0).
f = The parameters to be passed (maximum of 10). They must be 2 bytes apiece. If more than one parameter is to be entered, they must be entered as a list separated by a dash ('-').

4. SYSTEM RESPONSE

Refer to the APP:UT-IM-REASON appendix in the Appendixes section of the Input Messages manual.

5. REFERENCES

Input Message(s):

DUMP:UT-DNUS
DUMP:UT-SYMID
LOAD:UT-DNUS
Output Message(s):
EXC:UT-DNUS

Input Appendix(es):
APP:UT-IM-REASON

Other Manual(s):
235-105-110  System Maintenance Requirements and Tools
**EXC:UT-FPC-A**

**Software Release:** 5E14 only  
**Command Group:** SFTUTIL  
**Application:** 5  
**Type:** Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. **PURPOSE**

Requests that an unconditional call to a function using parameters in the specified foundation peripheral controller (FPC) be executed.

**WARNING:** The user is responsible that result from the use of this input message. Know the effects of the message before using it. This message can access and affect any function in the foundation peripheral controller.

2. **FORMAT**

```
EXC:UT:FPC=a,CALL,(FUNC="b"|SYMIDX=c)[,ARG=d],PARM=e[-e...-e];
```

3. **EXPLANATION OF MESSAGE**

- **a** = FPC number.
- **b** = Function name to be called. Must be entered as a string of up to 15 characters, enclosed in double quotation marks. If the symbol name is greater than 15 characters the symbol index number ‘c’ must be used to enter this input message using symbolic access. The functions symbol index number can be determined by using the DUMP:UT-SYMID input message.
- **c** = Symbol index number of function. The symbol index can be determined for this processor by using the DUMP:UT-SYMID input message.
- **d** = Number of parameters being passed to function. (0 - 10, default is 0).
- **e** = The parameters to be passed (maximum of 10). They must be 2 bytes a piece. If more than one parameter is to be entered, they must be entered as a list. If the parameters are addresses, then the high byte must be input before the low byte.

4. **SYSTEM RESPONSE**

Refer to the APP:UT-IM-REASON appendix in the Appendixes section of the Input Messages manual.

5. **REFERENCES**

Input Message(s):

- DUMP:UT-FPC
- DUMP:UT-SYMID
- LOAD:UT-FPC
Output Message(s):

    EXC : UT-FPC

Input Appendix(es):

    APP : UT-IM-REASON

Other Manual(s):

    235-105-110   System Maintenance Requirements and Tools
EXC:UT-FPC-B

Software Release: 5E15 and later
Command Group: SFTUTIL
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Requests that an unconditional call to a function using parameters in the specified foundation peripheral controller (FPC) be executed.

WARNING: The user is responsible that result from the use of this input message. Know the effects of the message before using it. This message can access and affect any function in the foundation peripheral controller.

NOTE: This input message is valid on processors of the communications module model 1 and 2. It will be accepted but denied on the communications module model 3. Use the EXC:UT:MSGS AP input message for equivalent functionality on processors of the communications module model 3.

2. FORMAT

EXC:UT:FPC=a,CALL,{FUNC="b"|SYMIDX=c}[,ARG=d],PARM=e[-e...-e];

3. EXPLANATION OF MESSAGE

a = FPC number.
b = Function name to be called. Must be entered as a string of up to 15 characters, enclosed in double quotation marks. If the symbol name is greater than 15 characters the symbol index number 'c' must be used to enter this input message using symbolic access. The functions symbol index number can be determined by using the DUMP:UT-SYMID input message.
c = Symbol index number of function. The symbol index can be determined for this processor by using the DUMP:UT-SYMID input message.
d = Number of parameters being passed to function. (0 - 10, default is 0).
e = The parameters to be passed (maximum of 10). They must be 2 bytes a piece. If more than one parameter is to be entered, they must be entered as a list. If the parameters are addresses, then the high byte must be input before the low byte.

4. SYSTEM RESPONSE

Refer to the APP:UT-IM-REASON appendix in the Appendixes section of the Input Messages manual.

5. REFERENCES

Input Message(s):

DUMP:UT-FPC
DUMP: UT-SYMID
LOAD: UT-FPC

Output Message(s):
EXC: UT-FPC

Input Appendix(es):
APP: UT-IM-REASON

Other Manual(s):
235-105-110 System Maintenance Requirements and Tools
EXC:UT-IDCU

Software Release: 5E14 and later
Command Group: SFTUTIL
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Requests that an unconditional call be made to a function using parameters in the specified integrated digital carrier unit (IDCU).

WARNING: The user is responsible for any effects on system operation that result from the use of this input message. Know the effects of the message before using it.

2. FORMAT

EXC:UT-IDCU=a-b,CALL,{FUNC="c"|SYMIDX=d}[,ARG=e,PARM=f[-f]...[-f]}{!|;}

3. EXPLANATION OF MESSAGE

a = Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Output Messages manual.

b = IDCU number. Refer to the APP:RANGES appendix in the Appendixes section of the Output Messages manual.

c = Function name to be called. The name is entered as a string of up to 15 characters, enclosed in double quotation marks. If the symbol name is greater than 15 characters the symbol index number 'd' must be used to enter this input message using symbolic access. The function's symbol index number can be determined by using the DUMP:UT-SYMID input message.

d = Symbol index number of function. The symbol index can be determined for this processor by using the DUMP:UT-SYMID input message.

e = Number of parameters being passed to function (range is 0-10) (default is 0).

f = The parameters to be passed (maximum of 10). They must be 2 bytes apiece. If more than one parameter is to be entered, they must be entered as a list separated by a dash ('-').

4. SYSTEM RESPONSE

Refer to the APP:UT-IM-REASON appendix in the Appendixes section of the Input Messages manual.

5. REFERENCES

Input Message(s):

DUMP:UT-IDCU
DUMP:UT-SYMID
LOAD:UT-IDCU
Output Message(s):

EXC: UT-IDCU

Input Appendix(es):

APP: RANGES
APP: UT-IM-REASON

Other Manual(s):
235-105-110  System Maintenance Requirements and Tools
EXC:UT-IDCULSI

Software Release: 5E14 and later
Command Group: SFTUTIL
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Requests that an unconditional call be made to a function using parameters in the specified integrated digital carrier unit (IDCU) loop side interface (LSI).

WARNING: The user is responsible for any effects on system operation that result from the use of this input message. Know the effects of the message before using it.

2. FORMAT

EXC:UT:IDCULSI=a-b-c,CALL,{FUNC="d"|SYMIDX=e} [,ARG=f,PARM=g[-g]...[-g]}{!|;}

3. EXPLANATION OF MESSAGE

a = Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Output Messages manual.

b = IDCU number. Refer to the APP:RANGES appendix in the Appendixes section of the Output Messages manual.

c = LSI number. Refer to the APP:RANGES appendix in the Appendixes section of the Output Messages manual.

d = Function name to be called. The name is entered as a string of up to 15 characters, enclosed in double quotation marks. If the symbol name is greater than 15 characters the symbol index number 'e' must be used to enter this input message using symbolic access. The function's symbol index number can be determined by using the DUMP:UT-SYMID input message.

e = Symbol index number of function. The symbol index can be determined for this processor by using the DUMP:UT-SYMID input message.

f = Number of parameters being passed to function (range is 0-10) (default is 0).

g = The parameters to be passed (maximum of 10). They must be 2 bytes apiece. If more than one parameter is to be entered, they must be entered as a list separated by a dash.

4. SYSTEM RESPONSE

Refer to the APP:UT-IM-REASON appendix in the Appendixes section of the Input Messages manual.

5. REFERENCES

Input Message(s):
DUMP:UT-IDCULSI
DUMP:UT-SYMID
LOAD:UT-IDCULSI

Output Message(s):
EXC:UT-IDCULSI

Input Appendix(es):
APP:RANGES
APP:UT-IM-REASON

Other Manual(s):
235-105-110 System Maintenance Requirements and Tools
**EXC:UT-ISLUCC**

**Software Release:** 5E14 and later  
**Command Group:** SFTUTIL  
**Application:** 5  
**Type:** Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. **PURPOSE**

Requests that an unconditional call be made to a function using parameters in the specified integrated services line unit common controller (ISLUCC).

WARNING: The user is responsible for any effects on system operation that result from the use of this input message. Know the effects of the message before using it.

2. **FORMAT**

EXC:UT:ISLUCC=a-b,CALL,{FUNC="c"|SYMIDX=d}  
[,ARG=e,PARM=f[-f]...[-f]}{!|;}

3. **EXPLANATION OF MESSAGE**

a  
= Switching module (SM) number.

b  
= Line unit number.

c  
= Function name to be called. The name is entered as a string of up to 15 characters, enclosed in double quotation marks. If the symbol name is greater than 15 characters the symbol index number ‘d’ must be used to enter this input message using symbolic access. The function’s symbol index number can be determined by using the DUMP:UT-SYMID input message.

d  
= Symbol index number of function. The symbol index can be determined for this processor by using the DUMP:UT-SYMID input message.

e  
= Number of parameters being passed to function (range is 0-10) (default is 0).

f  
= The parameters to be passed (maximum of 10). They must be 2 bytes a piece. If more than one parameter is to be entered, they must be entered as a list. The first byte of each two-byte parameter is the low byte; the second the high byte.

4. **SYSTEM RESPONSE**

Refer to the APP:UT-IM-REASON appendix in the Appendixes section of the Input Messages manual.

5. **REFERENCES**

Input Message(s):

DUMP:UT-ISLUCC  
DUMP:UT-SYMID  
LOAD:UT-ISLUCC
EXC:UT-MCTSI-MH-A

Software Release: 5E14 - 5E16(1)
Command Group: SFTUTIL
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Requests that an unconditional call to a function be executed using parameters in the specified message handler (MH) unit.

WARNING: The user is responsible for any effects on system operation that result from the use of this input message. Know the effects of the message before using it.

2. FORMAT

EXC:UT:MCTSI=a-b,MH,CALL,{FUNC="c"|SYMIDX=d}[,ARG=e,PARM=f[-f...]}{!|;}

3. EXPLANATION OF MESSAGE

a = Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

b = Message handler unit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

c = Function name to be called. The name is entered as a string of up to 15 characters, enclosed in double quotation marks. If the symbol name is greater than 15 characters the symbol index number ‘d’ must be used to enter this input message using symbolic access. The function’s symbol index number can be determined by using the DUMP:UT-SYMID input message.

d = Symbol index number of function. The symbol index can be determined for this processor by using the DUMP:UT-SYMID input message.

e = Number of parameters being passed to function (range is 0-10) (default is 0).

f = The parameters to be passed (maximum of 10). They must be 2 bytes a piece. If more than one parameter is to be entered, they should be entered as a list. If the parameters are addresses, then the high byte must be input before the low byte.

4. SYSTEM RESPONSE

Refer to the APP:UT-IM-REASON appendix in the Appendixes section of the Input Messages manual.

5. REFERENCES

Input Message(s):

DUMP:UT-MCTSI-MH
DUMP: UT-SYMID
LOAD: UT-MCTSI-MH

Output Message(s):

EXC: UT-MCTSI-MH

Input Appendix(es):

APP: UT-IM-REASON
APP: RANGES

Other Manual(s):
235-105-110  System Maintenance Requirements and Tools
EXC:UT-MCTSI-MH-B

Software Release: 5E16(2) and later
Command Group: SFTUTIL
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Format 1 requests that an unconditional call to a function using parameters in the specified message handler (MH) unit be executed. This format shows the format of the function call to be used when the MH is a MH32 or MHEIB type.

Format 2 requests that an unconditional call to a function using parameters in the specified MH unit be executed. This format shows the format of the function call to be used when the MH is a MHPPC type.

The MH image and hardware type can be determined for this processor by using the DUMP:UT-SYMID input message.

WARNING: The user is responsible for any effects on system operation that result from the use of this input message. Know the effects of the message before using it.

2. FORMAT

   ...[,ARG=e,PARM=f[-f...]]{!|;}

   ...[,RP1=g[,RP2=g[,RP3=g[,RP4=g[,RP5=g[,RP6=g]...]
   ...[,RP7=g[,RP8=g[,ARG=e,PARM=f[-f...]][,RTNSZ=h}{!|;}

3. EXPLANATION OF MESSAGE

a = Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

b = MH unit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

c = Function name to be called. The name is entered as a string of up to 15 characters, enclosed in double quotation marks. If the symbol name is greater than 15 characters the symbol index number ‘d’ must be used to enter this input message using symbolic access. The function's symbol index number can be determined by using the DUMP:UT-SYMID input message.

d = Symbol index number of function. The symbol index can be determined for this processor by using the DUMP:UT-SYMID input message.

e = The number of shorts being passed in PARM list ‘f’ to the called functions stack (0 to 10) (default is 0).
f = Stack parameter information to be presented to called function. The stack information to be passed (maximum of 10); must be 2 bytes each. If more than one parameter is to be entered, the parameters should be entered as a list (separated by a dash). This information will be packed together to form up to 20 bytes of data which is installed in the same order given by this input message.
- If MH unit is a MH32 or a MHEIB, the compiler rules state that all parameters passed to a function are presented on the stack.
- If MH unit is a MHPPC, the compiler rules state that the first 8 parameters are passed in registers, one "C code" parameter per each register loaded sequentially. Each parameter is 1 to 4 bytes in length.

These first 8 parameters are passed using field(s) ‘g’ of this message. Stack parameter will only be used when the number of parameters passed to the called function exceeds eight or a structure of greater than eight bytes is to be passed to the function.

g = First 8 parameters are passed in registers, one "C code" parameter per each register loaded sequentially. Each parameter is 1 to 4 bytes in length.

If the number of parameters passed to the called function exceeds eight or a structure of greater than eight bytes is to be passed, the fields ‘e’ and ‘f’ must be used to pass the information.
- If MH unit is a MH32 or MHEIB, the RP[1-8] fields are set to zero and not used.
- If MH unit is a MHPPC, the compiler rules state that the first 8 parameters are passed in registers, one "C code" parameter per each register loaded sequentially. Each parameter is 1 to 4 bytes in length.

Stack parameter fields ‘e’ and ‘f’ will only be used when the number of parameters passed to the called function exceeds eight or a structure of greater than eight bytes is to be passed to the function.

h = Size of the function return value. Needed only when the function returns a structure. Maximum supported return size structure is 100 bytes. Default to zero.

4. SYSTEM RESPONSE

Refer to the APP:UT-IM-REASON appendix in the Appendixes section of the Input Messages manual.

5. REFERENCES

Input Message(s):

DUMP:UT-MCTSI-MH
DUMP:UT-SYMID
LOAD:UT-MCTSI-MH

Output Message(s):

EXC:UT-MCTSI-MH

Input Appendix(es):

APP:UT-IM-REASON
APP : RANGES

Other Manual(s):
235-105-110  System Maintenance Requirements and Tools
EXC:UT-MCTSI-PI

Software Release: 5E14 and later
Command Group: SFTUTIL
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Format 1 requests that an unconditional call to a function using parameters in the specified peripheral interface (PI) unit be executed.

Format 2 requests that a transfer of execution to an absolute address in the specified PI be executed.

WARNING: The user is responsible for any effects on system operation that result from the use of this input request. Know the effects of the request before using it.

2. FORMAT

[1] EXC:UT:MCTSI=a-b,PI,CALL,{FUNC="c"|SYMIDX=d}
     [,ARG=e,PARM=f[-f...]]{!|;}

[2] EXC:UT:MCTSI=a-b,PI,GOTO,ADDR=g{!|;}

3. EXPLANATION OF MESSAGE

Note: The GOTO option of this input request is only supported in PIs of PI2 hardware type.

a = Switching module (SM) number.

b = Side of the module controller/time-slot interchange (MCTSI).

c = Function name to be called. The name is entered as a string of up to 15 characters, enclosed in double quotation marks. If the symbol name is greater than 15 characters the symbol index number 'd' must be used to enter this input request using symbolic access. The function's symbol index number can be determined by using the DUMP:UT-SYMID input request.

d = Symbol index number of function. The symbol index can be determined for this processor by using the DUMP:UT-SYMID input request.

e = Number of parameters being passed to function.

f = The parameters to be passed (maximum of 10). They must be 2 bytes a piece. If more than one parameter is to be entered, they must be entered as a list. If the parameters are 2 bytes, the low byte must be input before the high byte. Pointers must be entered in the following format: offset-segment register (example: 0x5d5fa ==> 0xfa5d50 where 0xfa is the offset and 0x5d50 is the value of the segment register. This swabbing is only true in PIs of PI1 type.

g = Transfer processor to this absolute address (ADDR). This is only valid in WHEN breakpoint clauses. This is only valid in PIs of PI2 type.
4. SYSTEM RESPONSE

Refer to the APP:UT-IM-REASON appendix in the Appendixes section of the Input Messages manual.

5. REFERENCES

Input Message(s):

ALW:UT-MCTSI-PI
CLR:UT-MCTSI-PI
DUMP:UT-MCTSI-PI
DUMP:UT-SYMID
END:UT-MCTSI-PI
ELSE:UT-MCTSI-PI
IF:UT-MCTSI-PI
INH:UT-MCTSI-PI
LOAD:UT-MCTSI-PI
OP:UT-MCTSI-PI
WHEN:UT-MCTSI-PI

Output Message(s):

EXC:UT-MCTSI-PI

Input Appendix(es):

APP:UT-IM-REASON

Other Manual(s):
235-105-110 System Maintenance Requirements and Tools
EXC:UT-MMP-A

Software Release: 5E14 only
Command Group: SFTUTIL
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Requests that an unconditional call to a function using parameters in the specified module message processor (MMP) be executed.

WARNING: The user is responsible that result from the use of this input message. Know the effects of the message before using it. This message can access and affect any function in the module message processor.

2. FORMAT

EXC:UT:MMP=a-b,CALL,{FUNC="c"|SYMIDX=d}[,ARG=e,PARM=f[-f]...[-f]];

3. EXPLANATION OF MESSAGE

a = Message switch side.
b = MMP unit number.
c = Function name to be called. The name is entered as a string of up to 15 characters, enclosed in double quotation marks. If the symbol name is greater than 15 characters the symbol index number 'd' must be used to enter this input message using symbolic access. The function's symbol index number can be determined by using the DUMP:UT-SYMID input message.
d = Symbol index number of function. The symbol index can be determined for this processor by using the DUMP:UT-SYMID input message.
e = Number of parameters being passed to function.
f = The parameters to be passed (maximum of 10). They must be 2 bytes apiece. If more than one parameter is to be entered, they must be entered as a dash-separated list. If the parameters are addresses, then the high byte must be input before the low byte.

4. SYSTEM RESPONSE

Refer to the APP:UT-IM-REASON appendix in the Appendixes section of the Input Messages manual.

5. REFERENCES

Input Message(s):

DUMP:UT-MMP
DUMP:UT-SYMID
LOAD:UT-MMP
Input Appendix(es):

APP: UT-IM-REASON

Other Manual(s):
235-105-110   System Maintenance Requirements and Tools
EXC:UT-MMP-B

Software Release: 5E15 and later
Command Group: SFTUTIL
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Requests that an unconditional call to a function using parameters in the specified module message processor (MMP) be executed.

**WARNING:** The user is responsible that result from the use of this input message. Know the effects of the message before using it. This message can access and affect any function in the module message processor.

**NOTE:** This input message is valid on processors of the communications module model 1 and 2. It will be accepted but denied on the communications module model 3. Use the EXC:UT:MSGS AP input message for equivalent functionality on processors of the communications module model 3.

2. FORMAT

EXC:UT:MMP=a-b,CALL,{FUNC="c"|SYMIDX=d}[,ARG=e,PARM=f[-f]...[-f]];

3. EXPLANATION OF MESSAGE

a = Message switch side.
b = MMP unit number.
c = Function name to be called. The name is entered as a string of up to 15 characters, enclosed in double quotation marks. If the symbol name is greater than 15 characters the symbol index number 'd' must be used to enter this input message using symbolic access. The function's symbol index number can be determined by using the DUMP:UT-SYMID input message.
d = Symbol index number of function. The symbol index can be determined for this processor by using the DUMP:UT-SYMID input message.
e = Number of parameters being passed to function.
f = The parameters to be passed (maximum of 10). They must be 2 bytes apiece. If more than one parameter is to be entered, they must be entered as a dash-separated list. If the parameters are addresses, then the high byte must be input before the low byte.

4. SYSTEM RESPONSE

Refer to the APP:UT-IM-REASON appendix in the Appendixes section of the Input Messages manual.

5. REFERENCES
Input Message(s):

DUMP:UT-MMP
DUMP:UT-SYMID
LOAD:UT-MMP

Input Appendix(es):

APP:UT-IM-REASON

Other Manual(s):

235-105-110  System Maintenance Requirements and Tools
EXC:UT-MSGS

Software Release: 5E15 and later
Command Group: SFTUTIL
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Requests that an unconditional call to a function using parameters in the specified message switch (MSGS) be executed.

NOTE: This command is valid only on MSGS processors of communication Model 3.

WARNING: The user takes responsibility for any effects on system operation that result from the use of this input message. Know the effects of the message before using it.

2. FORMAT


3. EXPLANATION OF MESSAGE

AP = Execute this command on the MSGS application processor.

IP = Execute this command on the MSGS interface processor.

a = Message switch side. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

b = Function name to be called. The name is entered as a string of up to 15 characters, enclosed in double quotation marks. If the symbol name is greater than 15 characters the symbol index number 'c' must be used to enter this command using symbolic access. The function’s symbol index number can be determined by using the DUMP:UT-SYMID input command.

c = Symbol index number of function. The symbol index can be determined for this processor by using the DUMP:UT-SYMID input command.

d = First 8 parameters (Note: each parameter is 1 to 4 bytes long) are passed in registers, one parameter per each register loaded sequentially.

Structures (of any size) passed as parameters require the user to build a copy of the structure somewhere else in memory, and then give that memory address in the parameter list.

If the number of parameters passed to the called function exceeds eight, the fields 'e' and 'f' must also be used to pass the additional information.

e = The number of shorts being passed in PARM list 'f' to the called functions stack (0 to 10).

f = Stack parameter information to be presented to called function. Each parameter is represented as a "long", but must be entered as two "shorts" separated by a dash. For example:
char(aa) = h'0-h'aa
short(bbcc) = h'0-h'bbcc
long(ddeeffaa) = h'ddee-h'ffaa

If more than one parameter is to be entered, the parameters should be entered as a list (separated by a dash). The maximum number of supported stack parameters is 5.

\( g \) = Size of the function return value. Needed only when the function returns a structure. Maximum supported return size structure is 100 bytes, default is zero.

4. SYSTEM RESPONSE

Refer to the APP:UT-IM-REASON appendix in the Appendixes section of the Input Messages manual.

5. REFERENCES

Input Message(s):

DUMP:UT-SYMID

Output Message(s):

EXC:UT-MSGS

Input Appendix(es):

APP:RANGES
APP:UT-IM-REASON

Output Appendix(es):

APP:UT-OM-REASON

Other Manual(s):

System Maintenance Requirements and Tools
**EXC:UT-OFI**

**Software Release:** 5E16(1) and later  
**Command Group:** SFTUTIL  
**Application:** 5  
**Type:** Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. **PURPOSE**

Requests that an unconditional call to a function using parameters in the specified optical facility interface (OFI) be executed.

This message may be used together with any of the other OFI generic utility input messages. Refer to the input messages listed in the REFERENCES section of this message description.

**WARNING:** The user takes responsibility for any effects on system operation that result from the use of this input message. Know the effects of the message before using it.

2. **FORMAT**

```
EXC:UT:OFI=a-b-c-d,CALL,{FUNC="e"|SYMIDX=f}[,...ARG=g,PARM=h[-h...]}{!|;}
```

3. **EXPLANATION OF MESSAGE**

- **a** = Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
- **b** = Optical interface unit (OIU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
- **c** = Protection group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
- **d** = Side number.
- **e** = Function name to be called. The name is entered as a string of up to 15 characters, enclosed in double quotation marks. If the symbol name is greater than 15 characters the symbol index number 'f' must be used to enter this input message using symbolic access. The function's symbol index number can be determined by using the DUMP:UT-SYMID input message.
- **f** = Symbol index number of function. The symbol index can be determined for this processor by using the DUMP:UT-SYMID input message.
- **g** = Number of parameters being passed to function (0 to 10, default is 0).
- **h** = Stack parameter information to be presented to called function. The stack information to be passed (maximum of 10) must be 2 bytes each. If more than one parameter is to be entered, the parameters should be entered as a list (separated by a dash). This information will be packed together to form up to 20 bytes of data which is installed in the same order given by this command.

4. **SYSTEM RESPONSE**
Refer to the APP:UT-IM-REASON appendix in the Appendixes section of the Input Messages manual.

5. REFERENCES

Input Message(s):

DUMP:UT-OFI
DUMP:UT-SYMID
LOAD:UT-OFI

Output Message(s):

EXC:UT-OFI

Input Appendix(es):

APP:RANGES
APP:UT-IM-REASON

Other Manual(s):
235-105-110  System Maintenance Requirements and Tools
EXC:UT-ONTC

Software Release: 5E15 and later
Command Group: N/A
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Requests that an unconditional call to a function using parameters in the specified office network and timing complex processor (ONTC) be executed.

NOTE: This command is valid only on ONTC processors of communication Model 3.

WARNING: The user takes responsibility for any effects on system operation that result from the use of this input message. Know the effects of the message before using it.

2. FORMAT

EXC:UT:ONTC=a, {AP|IP}, CALL, {FUNC="b"|SYMIDX=c}[,RP1=d][,RP2=d][,RP3=d][,RP4=d][,RP5=d][,RP6=d][,RP7=d][,RP8=d][,ARG=e, PARM=f[-f...]][,RTNSZ=g];

3. EXPLANATION OF MESSAGE

AP = Execute this command on the ONTC application processor.

IP = Execute this command on the ONTC interface processor.

a = ONTC side. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

b = Function name to be called. The name is entered as a string of up to 15 characters, enclosed in double quotation marks. If the symbol name is greater than 15 characters the symbol index number 'c' must be used to enter this command using symbolic access. The function’s symbol index number can be determined by using the DUMP:UT-SYMID input command.

c = Symbol index number of function. The symbol index can be determined for this processor by using the DUMP:UT-SYMID input command.

d = First 8 parameters (Note: each parameter is 1 to 4 bytes long) are passed in registers, one parameter per each register loaded sequentially.

Structures (of any size) passed as parameters require the user to build a copy of the structure somewhere else in memory, and then give that memory address in the parameter list.

If the number of parameters passed to the called function exceeds eight, the fields 'e' and 'f' must also be used to pass the additional information.

e = The number of shorts being passed in PARM list 'f' to the called functions stack (0 to 10).

f = Stack parameter information to be presented to called function. Each parameter is represented as a "long", but must be entered as two "shorts" separated by a dash. For example:
char(aa) = h'0-h'aa
short(bbcc) = h'0-h'bbcc
long(ddeeffaa) = h'ddee-h'ffaa

If more than one parameter is to be entered, the parameters should be entered as a list (separated by a dash). The maximum number of supported stack parameters is 5.

g = Size of the function return value. Needed only when the function returns a structure. Maximum supported return size structure is 100 bytes, defaults to zero.

4. SYSTEM RESPONSE

Refer to the APP:UT-IM-REASON appendix in the Appendixes section of the Input Messages manual.

5. REFERENCES

Input Message(s):
  DUMP:UT-SYMID

Output Message(s):
  EXC:UT-ONTC

Input Appendix(es):
  APP:RANGES
  APP:UT-IM-REASON

Output Appendix(es):
  APP:UT-OM-REASON

Other Manual(s):
  System Maintenance Requirements and Tools
EXC:UT-PPC-A

**Software Release:** 5E14 only
**Command Group:** SFTUTIL
**Application:** 5
**Type:** Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Requests that an unconditional call to a function using parameters in the specified pump peripheral controller (PPC) be executed.

**WARNING:** The user is responsible that result from the use of this input message. Know the effects of the message before using it. This message can access and affect any function in the pump peripheral controller.

2. FORMAT

EXC:UT:PPC=a,CALL,{FUNC=“b”|SYMIDX=c}[,ARG=d],PARM=e[-e...-e];

3. EXPLANATION OF MESSAGE

a = PPC number.

b = Function name to be called. The name is entered as a string of up to 15 characters, enclosed in double quotation marks. If the symbol name is greater than 15 characters the symbol index number ‘c’ must be used to enter this input message using symbolic access. The function’s symbol index number can be determined by using the DUMP:UT-SYMID input message.

c = Symbol index number of function. The symbol index can be determined for this processor by using the DUMP:UT-SYMID input message.

d = Number of parameters being passed to function.

e = The parameters to be passed (maximum of 10). They must be 2 bytes a piece. If more than one parameter is to be entered, they must be entered as a list. If the parameters are addresses, then the high byte must be input before the low byte.

4. SYSTEM RESPONSE

Refer to the APP:UT-IM-REASON appendix in the Appendixes section of the Input Messages manual.

5. REFERENCES

Input Message(s):

- DUMP:UT-PPC
- DUMP:UT-SYMID
- LOAD:UT-PPC
Output Message(s):

   EXC: UT-PPC

Input Appendix(es):

   APP: UT-IM-REASON

Other Manual(s):
235-105-110   System Maintenance Requirements and Tools
EXC:UT-PPC-B

Software Release: 5E15 and later
Command Group: SFTUTIL
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Requests that an unconditional call to a function using parameters in the specified pump peripheral controller (PPC) be executed.

WARNING: The user is responsible that result from the use of this input message. Know the effects of the message before using it. This message can access and affect any function in the pump peripheral controller.

NOTE: This input message is valid on processors of the communications module model 1 and 2. It will be accepted but denied on the communications module model 3. Use the EXC:UT:MSGS AP input message for equivalent functionality on processors of the communications module model 3.

2. FORMAT

EXC:UT:PPC=a,CALL,{FUNC="b"|SYMIDX=c}[,ARG=d],PARM=e[-e...-e];

3. EXPLANATION OF MESSAGE

a  = PPC number.

b  = Function name to be called. The name is entered as a string of up to 15 characters, enclosed in double quotation marks. If the symbol name is greater than 15 characters the symbol index number 'c' must be used to enter this input message using symbolic access. The function's symbol index number can be determined by using the DUMP:UT-SYMID input message.

c  = Symbol index number of function. The symbol index can be determined for this processor by using the DUMP:UT-SYMID input message.

d  = Number of parameters being passed to function.

e  = The parameters to be passed (maximum of 10). They must be 2 bytes a piece. If more than one parameter is to be entered, they must be entered as a list. If the parameters are addresses, then the high byte must be input before the low byte.

4. SYSTEM RESPONSE

Refer to the APP:UT-IM-REASON appendix in the Appendixes section of the Input Messages manual.

5. REFERENCES

Input Message(s):

DUMP:UT-PPC
DUMP: UT-SYMID
LOAD: UT-PPC

Output Message(s):
EXC: UT-PPC

Input Appendix(es):
APP: UT-IM-REASON

Other Manual(s):
235-105-110  System Maintenance Requirements and Tools
EXC:UT-PSUPH-A
Software Release: 5E14 only
Command Group: SFTUTIL
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Format 1 requests that an unconditional call to a function using parameters in the specified packet switch unit protocol handler (PSUPH) be executed.

Format 2 requests that a transfer of execution to an absolute address in the specified PSUPH be executed. This message may be used together with any of the other PSUPH generic utility input messages (refer to the input messages listed in the REFERENCES section). If this message is used together with other generic utility messages, the END:UT-PSUPH input message may be used to signal the end of the series of messages.

WARNING: The user takes responsibility for any effects on system operation that result from the use of this input message. Know the effects of the message before using it.

2. FORMAT

[1] EXC:UT:PSUPH=a-b-c-d,CALL,{FUNC="e" | SYMIDX=f} [,ARG=g,PARM=h[-h...]]{!|;}


3. EXPLANATION OF MESSAGE

a  = Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

b  = Unit number (always 0).

c  = Shelf number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

d  = Slot number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

e  = Function name to be called. The name is entered as a string of up to 15 characters, enclosed in double quotation marks. If the symbol name is greater than 15 characters the symbol index number 'f' must be used to enter this input message using symbolic access. The function’s symbol index number can be determined by using the DUMP:UT-SYMID input message.

f  = Symbol index number of function. The symbol index can be determined for this processor by using the DUMP:UT-SYMID input message.

g  = Number of parameters being passed to function. Must be a number from 0 to 10.

h  = The parameters (PARM) to be passed (maximum of 10). They must be 2 bytes apiece. If more than one parameter is to be entered, they must be entered as a list.
If the PSUPH is a PH2 and the parameters are 4 bytes, the low byte must be input before the high byte. Pointers must be entered in the following format: offset-segment register (example: 0x5d5fa => 0xfa5d50 where 0xfa is the offset and 0x5d50 is the value of the segment register).

If the PSUPH is a PH3 and the parameters are 4 bytes, the high byte must be input before the low byte. Pointers must be entered in the following format: (example: 0x7c5d5fa => 0x7c5d5fa).

Note: The GOTO option and its required address are only supported in a PSUPH of the PH3/PH4 and later hardware types (for example, not in a PH2 hardware type).

\[i\] = Transfer processor to this absolute address (ADDR). This is only valid in WHEN breakpoint clauses.

4. SYSTEM RESPONSE

Refer to the APP:UT-IM-REASON appendix in the Appendixes section of the Input Messages manual.

5. REFERENCES

Input Message(s):

ALW:UT-PSUPH
CLR:UT-PSUPH
COPY:UT-PSUPH
DUMP:UT-PSUPH
DUMP:UT-SYMID
ELSE:UT-PSUPH
END:UT-PSUPH
IF:UT-PSUPH
IF:UT-PSUPH-END
INH:UT-PSUPH
LOAD:UT-PSUPH
OP:UT-PSUPH
WHEN:UT-PSUPH

Output Message(s):

EXC:UT-PSUPH

Input Appendix(es):

APP:UT-IM-REASON

Other Manual(s):

235-105-110 System Maintenance Requirements and Tools
EXC:UT-PSUPH-B

Software Release: 5E15 only
Command Group: SFTUTIL
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Format 1 requests that an unconditional call to a function using parameters in the specified packet switch unit protocol handler (PSUPH) be executed. Note: This format shows the syntax of the function call to be used when the PSUPH is a PH[2-4,6,22], PHA, PHV[1-4] hardware type.

Format 2 requests that an unconditional call to a function using parameters in the specified PSUPH be executed. Note: This format shows the syntax of the function call to be used when the PSUPH is a PHV5 hardware type.

Format 3 requests that a transfer of execution to an absolute address in the specified PSUPH be executed. This message may be used together with any of the other PSUPH generic utility input messages (refer to the input messages listed in the REFERENCES section). If this message is used together with other generic utility messages, the END:UT-PSUPH input message may be used to signal the end of the series of messages.

WARNING: The user takes responsibility for any effects on system operation that result from the use of this input message. Know the effects of the message before using it.

2. FORMAT

[1] EXC:UT:PSUPH=a-b-c-d,CALL,{FUNC="e"|SYMIDX=f}...
    ...[ARG=g,PARM=h[-h...]]{{!|;}

    ...[,RP1=i][,RP2=i][,RP3=i][,RP4=i][,RP5=i][,RP6=i]...
    ...[,RP7=i][,RP8=i][,ARG=g,PARM=h[-h...]]{,RTNSZ=j}{!|;}

[3] EXC:UT:PSUPH=a-b-c-d,GOTO,ADDR=k{!|;}

3. EXPLANATION OF MESSAGE

a = Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

b = Unit number (always 0).

c = Shelf number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

d = Slot number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

e = Function name to be called. The name is entered as a string of up to 15 characters, enclosed in double quotation marks. If the symbol name is greater than 15 characters the symbol index number ‘f’ must be used to enter this input message using symbolic access. The function’s symbol index number can be determined by using the DUMP:UT-SYMID input message.
f = Symbol index number of function. The symbol index can be determined for this processor by using the DUMP:UT-SYMID input message.

g = Number of parameters being passed to function. Must be a number from 0 to 10.

h = Stack parameter information to be presented to called function. The stack information to be passed (maximum of 10) must be 2 bytes each. If more than one parameter is to be entered, the parameters should be entered as a list (separated by a dash). This information will be packed together to form up to 20 bytes of data which is installed in the same order given by this command.

- If the PSUPH is a PH[2-4,6,22], PHA, PHV[1-4] hardware type, the compiler rules state that all parameters passed to a function are presented on the stack.

  If the PSUPH is a PH2 hardware type and the parameters are 4 bytes, the low two bytes must occur before the high two bytes. Pointers must be entered in the following format: offset-segment register (example: 0x5d5fa == 0xfa5d50 where 0xfa is the offset and 0x5d50 is the value of the segment register).

  Otherwise, if the parameters are 4 bytes, the high byte must be input before the low byte. Pointers must be entered in the following format: (example: 0x7c5d5fa).

  - If the PSUPH is a PHV5 hardware type, the compiler rules state that the first 8 parameters (Note: each parameter is 1 to 4 bytes in length) are passed in registers, one "C code" parameter per each register loaded sequentially. These first 8 parameters are passed using field(s) 'i' of this message. Stack parameters will only be used when the number of parameters passed to the called function exceeds eight or a structure of greater than eight bytes is to be passed to the function.

i = First 8 parameters (Note: each parameter is 1 to 4 bytes in length) are passed in registers, one "C code" parameter per each register loaded sequentially. If the number of parameters passed to the called function exceeds eight or a structure of greater than eight bytes is to be passed, the fields 'g' and 'h' must be used to pass the information.

- If the PSUPH is a PH[2-4,6,22], PHA, PHV[1-4] hardware type, the RP[1-8] fields are set to zero and not used.

- If the PSUPH is a PHV5, the compiler rules state that the first 8 parameters (Note: each parameter is 1 to 4 bytes in length) are passed in registers, one "C code" parameter per each register loaded sequentially. Stack parameter fields 'g' and 'h' will only be used when the number of parameters passed to the called function exceeds eight or a structure of greater than eight bytes is to be passed to the function.

j = Size of the function return value. Needed only when the function returns a structure. Maximum supported return size structure is 100 bytes. Default to zero.

k = Transfer processor to this absolute address (ADDR). This is only valid in WHEN breakpoint clauses.

Note: The GOTO option and its required address are not supported on a PSUPH of the PH2 hardware types.

4. SYSTEM RESPONSE
Refer to the APP:UT-IM-REASON appendix in the Appendixes section of the Input Messages manual.

5. REFERENCES

Input Message(s):

ALW:UT-PSUPH
CLR:UT-PSUPH
COPY:UT-PSUPH
DUMP:UT-PSUPH
DUMP:UT-SYMID
ELSE:UT-PSUPH
END:UT-PSUPH
IF:UT-PSUPH
IF:UT-PSUPH-END
INH:UT-PSUPH
LOAD:UT-PSUPH
OP:UT-PSUPH
WHEN:UT-PSUPH

Output Message(s):

EXC:UT-PSUPH

Input Appendix(es):

APP:RANGES
APP:UT-IM-REASON

Other Manual(s):
235-105-110 System Maintenance Requirements and Tools
235-600-400 Audits Manual
EXC:UT-PSUPH-C

**Software Release:** 5E16(1) and later  
**Command Group:** SFTUTIL  
**Application:** 5  
**Type:** Input

**WARNING:** INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. **PURPOSE**

Format 1 requests that an unconditional call to a function using parameters in the specified packet switch unit protocol handler (PSUPH) be executed. This format shows the syntax of the function call to be used when the PSUPH is a PH[2-4,6,22], PHA, PHV[1-4] hardware type.

Format 2 requests that an unconditional call to a function using parameters in the specified PSUPH be executed. This format shows the syntax of the function call to be used when the PSUPH is a PHV5, PHV6, PH31, PHA2, or PHE2 hardware type.

Format 3 requests that a transfer of execution to an absolute address in the specified PSUPH be executed. This message may be used together with any of the other PSUPH generic utility input messages (refer to the input messages listed in the REFERENCES section).

If this message is used together with other generic utility messages, the END:UT-PSUPH input message may be used to signal the end of the series of messages.

**WARNING:** The user takes responsibility for any effects on system operation that result from the use of this input message. Know the effects of the message before using it.

2. **FORMAT**

 . . .[,ARG=g,PARM=h[-h...]]{!|;}

 . . .[,RP1=i][,RP2=i][,RP3=i][,RP4=i][,RP5=i][,RP6=i]. . .  
 . . .[,RP7=i][,RP8=i][,ARG=g,PARM=h[-h...]][,RTNSZ=j]{!|;}

[3] EXC:UT:PSUPH=a-b-c-d,GOTO,ADDR=k{!|;}

3. **EXPLANATION OF MESSAGE**

**GOTO**

- This option and its required address are not supported on a PSUPH of the PH2 hardware types.

a

- Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

b

- Packet switching unit (PSU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

c

- Shelf number. Refer to the APP:RANGES appendix in the Appendixes section of the Input
Messages manual.

d = Slot number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

e = Function name to be called. The name is entered as a string of up to 15 characters, enclosed in double quotation marks. If the symbol name is greater than 15 characters the symbol index number ‘f’ must be used to enter this input message using symbolic access. The function's symbol index number can be determined by using the DUMP:UT-SYMID input message.

f = Symbol index number of function. The symbol index can be determined for this processor by using the DUMP:UT-SYMID input message.

g = Number of parameters being passed to function. Must be a number from 0 to 10.

h = Stack parameter information to be presented to called function. The stack information to be passed (maximum of 10) must be 2 bytes each. If more than one parameter is to be entered, the parameters should be entered as a list (separated by a dash). This information will be packed together to form up to 20 bytes of data which is installed in the same order given by this command.

<table>
<thead>
<tr>
<th>PH</th>
<th>PHA</th>
<th>PHV</th>
</tr>
</thead>
<tbody>
<tr>
<td>[2-4,6,22]</td>
<td>[1-4]</td>
<td></td>
</tr>
</tbody>
</table>

If the PSUPH is a PH[2-4,6,22], PHA, PHV[1-4] hardware type, the compiler rules state that all parameters passed to a function are presented on the stack.

If the PSUPH is a PH2 hardware type and the parameters are 4 bytes, the low two bytes must occur before the high two bytes. Pointers must be entered in the following format: offset-segment register (example: 0x5d5fa ==> 0xfa5d50 where 0xfa is the offset and 0x5d50 is the value of the segment register).

Otherwise, if the parameters are 4 bytes, the high byte must be input before the low byte. Pointers must be entered in the following format: (example: 0x7c5d5fa).

- If the PSUPH is a PHV5, PHV6, PH31, PHA2, or PHE2 hardware type, the first 8 parameters are passed in registers, one “C code” parameter per each register loaded sequentially. Each parameter is 1 to 4 bytes in length.

These first 8 parameters are passed using variable(s) ‘i’ of this message. Stack parameters will only be used when the number of parameters passed to the called function exceeds eight or a structure of greater than eight bytes is to be passed to the function.

i = First 8 parameters (Note: each parameter is 1 to 4 bytes in length) are passed in registers, one “C code” parameter per each register loaded sequentially. If the number of parameters passed to the called function exceeds eight or a structure of greater than eight bytes is to be passed, the variables ‘g’ and ‘h’ must be used to pass the information.

- If the PSUPH is a PH[2-4,6,22], PHA, PHV[1-4] hardware type, the RP[1-8] variables are set to zero and not used.

- If the PSUPH is a PHV5, PHV6, PH31, PHA2, or PHE2 the compiler rules state that the first 8 parameters are passed in registers, one “C code” parameter per each register loaded sequentially. Each parameter is 1 to 4 bytes in length.

Stack parameter variables ‘g’ and ‘h’ will only be used when the number of parameters passed to the called function exceeds eight or a structure of greater than eight bytes is to be passed to the function.

j = Size of the function return value. Needed only when the function returns a structure. Maximum supported return size structure is 100 bytes. Default to zero.
k = Transfer processor to this absolute address (ADDR). This is only valid in WHEN breakpoint clauses.

4. SYSTEM RESPONSE

Refer to the APP:UT-IM-REASON appendix in the Appendixes section of the Input Messages manual.

5. REFERENCES

Input Message(s):

ALW:UT-PSUPH
CLR:UT-PSUPH
COPY:UT-PSUPH
DUMP:UT-PSUPH
DUMP:UT-SYMID
ELSE:UT-PSUPH
END:UT-PSUPH
IF:UT-PSUPH
IF:UT-PSUPH-END
INH:UT-PSUPH
LOAD:UT-PSUPH
OP:UT-PSUPH
WHEN:UT-PSUPH

Output Message(s):

EXC:UT-PSUPH

Input Appendix(es):

APP: RANGES
APP: UT-IM-REASON

Other Manual(s):

235-105-110 System Maintenance Requirements and Tools
235-600-400 Audits Manual
EXC:UT-QGP-A

Software Release: 5E14 only
Command Group: SFTUTIL
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Requests that an unconditional call to a function using parameters in the specified quad-link packet switch (QLPS) gateway processor (QGP) be executed.

WARNING: The user takes responsibility for any effects on system operation that result from the use of this input message. Know the effects of the message before using it.

2. FORMAT

EXC:UT:QGP=a-b, {AP|MSGH}, CALL, {FUNC="c" | SYMIDX=d} 
[ , ARG=e, PARM=f[-f...] ];

3. EXPLANATION OF MESSAGE

AP
    = Execute this input message on the QGP application processor.

MSGH
    = Execute this input message on the QGP message handler processor.

a

b
    = QGP number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

c
    = Function name to be called. The name is entered as a string of up to 15 characters, enclosed in double quotation marks. If the symbol name is greater than 15 characters the symbol index number 'd' must be used to enter this input message using symbolic access. The function's symbol index number can be determined by using the DUMP:UT-SYMID input message.

d
    = Symbol index number of function. The symbol index can be determined for this processor by using the DUMP:UT-SYMID input message.

e
    = The number of parameters being passed to function (0 to 10). from 0 to 10.

f
    = The parameters to be passed (maximum of 10); must be 2 bytes each. If more than one parameter is to be entered, the parameters should be entered as a list (separated by a dash). If the parameters are addresses, then the high byte must be input before the low byte.

4. SYSTEM RESPONSE

Refer to the APP:UT-IM-REASON appendix in the Appendixes section of the Input Messages manual.

5. REFERENCES
Input Message(s):
   DUMP:UT-SYMID

Output Message(s):
   EXC:UT-QGP

Input Appendix(es):
   APP:RANGES
   APP:UT-IM-REASON

Output Appendix(es):
   APP:UT-OM-REASON

Other Manual(s):
235-105-110   System Maintenance Requirements and Tools
EXC:UT-QGP-B

Software Release: 5E15 and later
Command Group: SFTUTIL
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Requests that an unconditional call to a function using parameters in the specified quad-link packet switch (QLPS) gateway processor (QGP) be executed.

WARNING: The user takes responsibility for any effects on system operation that result from the use of this input message. Know the effects of the message before using it.

NOTE: This input message is valid on processors of the communications module model 1 and 2. It will be accepted but denied on the communications module model 3. Use the EXC:UT:MSGS AP input message for equivalent functionality on processors of the communications module model 3.

2. FORMAT

EXC:UT:QGP=a-b,{AP|MSGH},CALL,{FUNC="c"|SYMIDX=d}[,ARG=e,PARM=f[-f...]}];

3. EXPLANATION OF MESSAGE

AP = Execute this input message on the QGP application processor.

MSGH = Execute this input message on the QGP message handler processor.

a = Message switch side. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

b = QGP number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

c = Function name to be called. The name is entered as a string of up to 15 characters, enclosed in double quotation marks. If the symbol name is greater than 15 characters the symbol index number ‘d’ must be used to enter this input message using symbolic access. The function's symbol index number can be determined by using the DUMP:UT-SYMID input message.

d = Symbol index number of function. The symbol index can be determined for this processor by using the DUMP:UT-SYMID input message.

e = The number of parameters being passed to function (0 to 10). from 0 to 10.

f = The parameters to be passed (maximum of 10); must be 2 bytes each. If more than one parameter is to be entered, the parameters should be entered as a list (separated by a dash). If the parameters are addresses, then the high byte must be input before the low byte.

4. SYSTEM RESPONSE
Refer to the APP:UT-IM-REASON appendix in the Appendixes section of the Input Messages manual.

5. REFERENCES

Input Message(s):

DUMP:UT-SYMID

Output Message(s):

EXC:UT-QGP

Input Appendix(es):

APP:RANGES
APP:UT-IM-REASON

Output Appendix(es):

APP:UT-OM-REASON

Other Manual(s):

235-105-110 System Maintenance Requirements and Tools
EXC:UT-SM-A

Software Release: 5E14 - 5E16(1)
Command Group: SFTUTIL
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Format 1 requests that an unconditional call to a function using parameters in the specified switching module (SM) be executed.

Format 2 requests that a transfer of execution to an absolute address in the specified SM be executed. This message may be used together with any of the other SM generic utility input messages (refer to the input messages listed in the REFERENCES section). If this message is used together with other utility messages, the END:UT-SM input message may be used to signal the end of the series of messages.

WARNING: The user is responsible for any effects on system operation that result from the use of this input message. Know the effects of the message before using it.

2. FORMAT

[1] EXC:UT:SM=a,CALL,{FUNC="b"|SYMIDX=c},{ARG=d,PARM=[-e...]}{!|;}

3. EXPLANATION OF MESSAGE

a = SM number.

b = Function name to be called. The name is entered as a string of up to 15 characters, enclosed in double quotation marks. If the symbol name is greater than 15 characters the symbol index number 'c' must be used to enter this input message using symbolic access. The function's symbol index number can be determined by using the DUMP:UT-SYMID input message.

c = Symbol index number of function. The symbol index can be determined for this processor by using the DUMP:UT-SYMID input message.

d = Number of parameters being passed to function (range is 0-10) (default is 0).

e = The parameters to be passed (maximum of 10). They must be 2 bytes a piece. If more than one parameter is to be entered, they must be entered as a list. If the parameters are addresses, then the high byte must be input before the low byte.

f = Transfer the processor to this absolute address. This is only valid in WHEN breakpoint or match WHEN clauses.

4. SYSTEM RESPONSE

Refer to the APP:UT-IM-REASON appendix in the Appendixes section of the Input Messages manual.
5. REFERENCES

Input Message(s):

ALW:UT-SM
CLR:UT-SM
COPY:UT-SM
DUMP:UT-SM
DUMP:UT-SYMID
ELSE:UT-SM
END:UT-SM
IF:UT-SM
IF:UT-SM-ENDIF
INH:UT-SM
LOAD:UT-SM
OP:UT-SM
WHEN:UT-SM

Output Message(s):

EXC:UT-SM

Input Appendix(es):

APP:UT-IM-REASON

Other Manual(s):
235-105-110 System Maintenance Requirements and Tools
EXC:UT-SM-B

Software Release: 5E16(2) and later
Command Group: SFTUTIL
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Format 1 requests that an unconditional call to a function using parameters in the specified switching module (SM) be executed. This format shows the format of the function call to be used when the SM software configuration is not CNFG2K00.

Format 2 requests that an unconditional call to a function using parameters in the specified SM be executed. This format shows the format of the function call to be used when the SM software configuration is CNFG2K00.

Format 3 requests that a transfer of execution to an absolute address in the specified SM be executed.

This message may be used together with any of the other SM generic utility input messages (refer to the input messages listed in the REFERENCES section).

If this message is used together with other utility messages, the END:UT-SM input message may be used to signal the end of the series of messages.

WARNING: The user is responsible for any effects on system operation that result from the use of this input message. Know the effects of the message before using it.

2. FORMAT


. . .[,ARG=d,PARM=e[-e...]](!|;)


. . .[,RP1=f],[RP2=f],[RP3=f],[RP4=f],[RP5=f],[RP6=f] . . .

. . .[,RP7=f],[RP8=f],[ARG=d,PARM=e[-e...]][,RTNSZ=h](!|;)


3. EXPLANATION OF MESSAGE

a = SM number.

b = Function name to be called. The name is entered as a string of up to 15 characters, enclosed in double quotation marks. If the symbol name is greater than 15 characters the symbol index number 'c' must be used to enter this input message using symbolic access. The function's symbol index number can be determined by using the DUMP:UT-SYMID input message.

c = Symbol index number of function. The symbol index can be determined for this processor by using the DUMP:UT-SYMID input message.
\( \text{d} \) = The number of shorts being passed in PARM variable ‘\( \text{e} \)’ to the called functions stack (0 to 10). Default is 0.

\( \text{e} \) = Stack parameter information to be presented to called function. The stack information to be passed (maximum of 10); must be 2 bytes each. If more than one parameter is to be entered, the parameters should be entered as a list (separated by a dash). This information will be packed together to form up to 20 bytes of data which is installed in the same order given by this input message.

<table>
<thead>
<tr>
<th>If the SM Software Configuration is:</th>
<th>Then:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Not CNFG2KPPC</td>
<td>The compiler rules state that all parameters passed to a function are presented on the stack.</td>
</tr>
<tr>
<td>CNFG2KPPC</td>
<td>The compiler rules state that the first 8 parameters are passed in registers, one &quot;C code&quot; parameter per each register loaded sequentially. Each parameter is 1 to 4 bytes in length. These first 8 parameters are passed using variable ‘( \text{c} )’ of this message. Stack parameter will only be used when the number of parameters passed to the called function exceeds eight or a structure of greater than eight bytes is to be passed to the function.</td>
</tr>
</tbody>
</table>

\( \text{f} \) = First 8 parameters are passed in registers, one "C code" parameter per each register loaded sequentially. Each parameter is 1 to 4 bytes in length.

If the number of parameters passed to the called function exceeds eight or a structure of greater than eight bytes is to be passed, the variables ‘\( \text{d} \)’ and ‘\( \text{e} \)’ must be used to pass the information.

<table>
<thead>
<tr>
<th>If the SM Software Configuration is:</th>
<th>Then:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Not CNFG2KPPC</td>
<td>The R[1-8] fields are set to zero and not used.</td>
</tr>
<tr>
<td>CNFG2KPPC</td>
<td>The compiler rules state that the first 8 parameters are passed in registers, one &quot;C code&quot; parameter per each register loaded sequentially. Each parameter is 1 to 4 bytes in length. Stack parameter variables ‘( \text{d} )’ and ‘( \text{e} )’ will only be used when the number of parameters passed to the called function exceeds eight or a structure of greater than eight bytes is to be passed to the function.</td>
</tr>
</tbody>
</table>

\( \text{g} \) = Transfer the processor to this absolute address. This is only valid in WHEN breakpoint or match WHEN clauses.

\( \text{h} \) = Size of the function return value. Needed only when the function returns a structure. Maximum supported return size structure is 100 bytes. Default to zero.

4. SYSTEM RESPONSE

Refer to the APP:UT-IM-REASON appendix in the Appendixes section of the Input Messages manual.

5. REFERENCES

Input Message(s):

- ALW:UT-SM
- CLR:UT-SM
- COPY:UT-SM
- DUMP:UT-SM
- DUMP:UT-SYMID
- ELSE:UT-SM
- END:UT-SM
- IF:UT-SM
IF: UT-SM-ENDIF
INH: UT-SM
LOAD: UT-SM
OP: UT-SM
WHEN: UT-SM

Output Message(s):

EXC: UT-SM

Input Appendix(es):

APP: UT-IM-REASON

Other Manual(s):
235-105-110   System Maintenance Requirements and Tools
**EXC:UT-TMUX**

**Software Release:** 5E14 and later  
**Command Group:** SFTUTIL  
**Application:** 5  
**Type:** Input

**WARNING:** INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

### 1. PURPOSE

Requests that an unconditional call be made to a function using parameters in the specified digital networking unit - SONET (DNU-S) transmission multiplexer (TMUX).

**WARNING:** The user is responsible for any effects on system operation that result from the use of this input message. Know the effects of the message before using it.

### 2. FORMAT

```
EXC:UT:TMUX=a-b-c-d,CALL,{FUNC="e"|SYMIDX=f}
[,ARG=g,PARM=h[-h]...[-h]}{!|;}
```

### 3. EXPLANATION OF MESSAGE

- **a** = Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
- **b** = DNU-S number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
- **c** = Data group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
- **d** = TMUX number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
- **e** = Function name to be called. The name is entered as a string of up to 15 characters, enclosed in double quotation marks. If the symbol name is greater than 15 characters the symbol index number ‘f’ must be used to enter this input message using symbolic access. The function’s symbol index number can be determined by using the DUMP:UT-SYMID input message.
- **f** = Symbol index number of function. The symbol index can be determined for this processor by using the DUMP:UT-SYMID input message.
- **g** = Number of parameters being passed to function (range is 0-10) (default is 0).
- **h** = The parameters to be passed (maximum of 10). They must be 2 bytes apiece. If more than one parameter is to be entered, they must be entered as a list separated by a dash.

### 4. SYSTEM RESPONSE

Refer to the APP:UT-IM-REASON appendix in the Appendixes section of the Input Messages manual.
5. REFERENCES

Input Message(s):

DUMP: UT-TMUX
DUMP: UT-SYMID
LOAD: UT-TMUX

Output Message(s):

EXC: UT-TMUX

Input Appendix(es):

APP: UT-IM-REASON
APP: RANGES

Other Manual(s):
235-105-110 System Maintenance Requirements and Tools
30. FRMV
FRMV:LN

Software Release: 5E14 and later
Command Group: SYSRCVY
Application: 5,CNI
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Requests forced removal of the specified node from service, regardless of the state of the link, mate, or other nodes.

An attempt is made to remove the node from service, provided that the node is not the ring peripheral controller (RPC), the major state is active (ACT), the node is in the active ring segment, and the interprocess message switch (IMS) subsystem is not initializing at a level higher than 1A. If successful, the link node (LN) major state is changed to out-of-service (OOS), and the node itself is placed in the quarantine state. When a node is manually removed, it becomes the responsibility of the user to restore the node to service. This input message does not use the maintenance input request administrator (MIRA) queue, so the OP:DMQ and STOP:DMQ input messages do not apply to it and it may be executed ahead of previously entered input messages in the MIRA queue.

WARNING: This input message can cause signaling point isolation - isolating the office and interrupting common channel signaling (CCS) message processing, by removing the last LN of a set. Use it only when it is necessary to override the safety checks of the RMV:LN input message.

2. FORMAT

FRMV:LNa=b;

3. EXPLANATION OF MESSAGE

a = A ring node (RN) group number with explicit leading zero for group numbers less than 10. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

b = The node’s position in the RN group. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

PF = Printout follows. Followed by the FRMV:LN output message.

5. REFERENCES

Input Message(s):

DGN:LN
RMV:LN
RST:LN
Output Message(s):

DGN : LN  
FRMV : LN  
RMV : LN  
RST : LN

Input Appendix(es):

APP : RANGES

Other Manual(s):
235-190-120  Common Channel Signaling Services and Associated Signaling Service Feature

MCC Display Page(s):

118  (CNI RING STATUS PAGE)
1520 (RING NODE STATUS PAGE)
1521 (SIGNALING LINK SUMMARY PAGE)
1522 (SIGNALING LINK PAGE)
31. GRC
GRC:CANCEL

Software Release: 5E14 and later
Command Group: RCV
Application: 5
Type: Input

1. PURPOSE

Requests that a global recent change (GRC) job that is waiting in the queue be canceled. This allows the user to un-schedule a GRC job. If the GRC job has been split, SECT must be provided.

Note: Use the CLR:GRC message since it will replace this message.

2. FORMAT

GRC:CANCEL, NAME=a[, SECT=b];

3. EXPLANATION OF MESSAGE

a = GRC name (up to 10 characters).

b = GRC section number.

4. SYSTEM RESPONSE

NG = No good. The request was denied. The GRC:ERROR output message provides the reason for the failure.

PF = Printout follows. Followed by the GRC:STATUS output message indicating the beginning of the operation.

5. REFERENCES

Input Message(s):

CLR:GRC
SCHED:GRC

Output Message(s):

GRC:ERROR
GRC:STATUS

Other Manual(s):

Where (x) is the release-specific version of the specified manual.

235-118-251 Recent Change Procedures
235-118-25x Recent Change Reference
GRC:CONTINUE

Software Release: 5E14 and later
Command Group: RCV
Application: 5
Type: Input

1. PURPOSE

Requests that a global recent change (GRC) operation that is halted be restarted. This input message restarts the GRC process that was halted using the STP:GRC input message. The REPT:GRC input message can be used to determine which job was halted.

Note: Use the EXC:GRC input message since it will replace this input message.

2. FORMAT

GRC:CONTINUE;

3. EXPLANATION OF MESSAGE

No variables.

4. SYSTEM RESPONSE

NG = No good. The request was denied. The GRC:ERROR output message provides the reason for the failure.

PF = Printout follows. Followed by the GRC:STATUS output message indicating the beginning of the operation.

5. REFERENCES

Input Message(s):

EXC:GRC
STP:GRC
REPT:GRC
SCHED:GRC

Output Message(s):

GRC:ERROR
GRC:STATUS

Other Manual(s):

Where (x) is the release-specific version of the specified manual.

235-118-251 Recent Change Procedures
235-118-25x Recent Change Reference
235-070-100 Administration and Engineering Guidelines
**GRC:HALT**

Software Release: 5E14 and later
Command Group: RCV
Application: 5
Type: Input

### 1. PURPOSE

Requests that the execution of the current global recent change (GRC) job be suspended. This input message stops the processing GRC job gracefully. The EXC:GRC input message continues job execution.

Note: Use the STP:GRC message since it will replace this message.

### 2. FORMAT

GRC:HALT;

### 3. EXPLANATION OF MESSAGE

No variables.

### 4. SYSTEM RESPONSE

NG = No good. The request was denied. The GRC:ERROR output message provides the reason for the failure.

PF = Printout follows. Followed by the GRC:STATUS output message indicating that the job was successfully halted.

### 5. REFERENCES

Input Message(s):

- STP:GRC
- CLR:GRC
- EXC:GRC
- SCHED:GRC

Output Message(s):

- GRC:ERROR
- GRC:STATUS
- REPT:GRC

Other Manual(s):

Where (x) is the release-specific version of the specified manual.

- 235-118-251 Recent Change Procedures
- 235-118-25x Recent Change Reference
- 235-070-100 Administration and Engineering Guidelines
GRC:PASSWORD
Software Release: 5E14 and later
Command Group: AUTH
Application: 5
Type: Input

1. PURPOSE
Requests that the global recent change (GRC) password for the given clerk identifier be updated or deleted.

Note: Use the EXC:GRCPASSWORD message since it will replace this message.

2. FORMAT
GRC:PASSWORD,CLERKID=a,{PASSWD=b|DELETE};

3. EXPLANATION OF MESSAGE
DELETE = Delete the password.
a = Clerk identifier assigned to GRC clerk.
b = New password for GRC clerk.

4. SYSTEM RESPONSE
NG = No good. The request was denied. The GRC:ERROR output message provides the reason for the failure.
OK = Good. The input message has been accepted indicating that the action will be taken.

5. REFERENCES
Input Message(s):
   EXC:GRCPASSWORD
   REPT:GRC

Output Message(s):
   GRC:ERROR

Other Manual(s):
Where (x) is the release-specific version of the specified manual.
235-118-251 Recent Change Procedures
235-118-25x Recent Change Reference
235-070-100 Administration and Engineering Guidelines
1. PURPOSE

Requests that a report of the global recent change (GRC) activity be printed. The NAME field refers to the name of a GRC job. If NAME is not entered, the schedule for all GRC jobs will be displayed. If NAME is entered, a more detailed status of the named job will be reported.

If a named GRC job has been split into sections, the section number MUST be provided using the SECT input message line option.

When BATCH is specified, a list of all time-released batch jobs will print. When HISTORY is specified, a history of all input messages executed for all GRC jobs will be printed unless a GRC NAME is specified. When UPDSPEC is specified, a list of the updates defined for all GRC jobs will be printed unless a GRC NAME is specified. When QUERY is specified, the query criteria for all GRC jobs will be printed unless a GRC NAME is specified.

Note: Use the REPT:GRC message since it will replace this message.

2. FORMAT

```
GRC:REPORT[,NAME=a[,SECT=b]][,DEVICE="c"][,BATCH][,HISTORY][,UPDSPEC][,QUERY];
```

3. EXPLANATION OF MESSAGE

- **BATCH** = Report the current list of recent change/verify (RC/V) batch jobs scheduled.
- **HISTORY** = Report the history of input messages executed on this GRC name.
- **QUERY** = List the criteria specified for this GRC name.
- **UPDSPEC** = List updates specified for this GRC name.

- **a** = GRC name (up to 10 characters).
- **b** = GRC section number.
- **c** = Destination device or file for the report. The device or file name is input as a character string and must be enclosed with double quotation marks. If the input string is prefixed by a slash (/), the destination will be taken as the name of a file. The length of the file name must not exceed 30 characters. If the device name does not start with a slash (/), it must correspond to an output device defined in a “device” record in the equipment configuration database (ECD). The default destination is the name of the default tty device obtained from the environment variable LCHAN.

4. SYSTEM RESPONSE

- **NG** = No good. The request was denied. The GRC:ERROR output message provides the reason for
failure.

= Printout follows. Followed by the REPT:GRC output message.

5. REFERENCES

Input Message(s):

REPT:GRC
EXC:GRCPASSWORD

Output Message(s):

GRC:ERROR
REPT:GRC

Other Manual(s):

Where (x) is the release-specific version of the specified manual.

235-070-100 Administration and Engineering Guidelines
235-118-251 Recent Change Procedures
235-118-25x Recent Change Reference
GRC:RESCHED
Software Release: 5E14 and later
Command Group: RCV
Application: 5
Type: Input

1. PURPOSE
Requests that a global recent change (GRC) job be rescheduled. This input message allows the user to change the options specified when the GRC job was scheduled. If the GRC job has been split, SECT must be provided.

RDATE and RTIME should be specified together. If RDATE is provided without RTIME, RTIME defaults to midnight. If RDATE and RTIME are not provided or RTIME is specified without RDATE, the default is the current date and time.

Note: Use the SCHED:GRC message since it will replace this message.

2. FORMAT
GRC:RESCHED,NAME=a[,SECT=b],MODE=c[,VERBOSE=d][,MAXERR=e][,RDATE=ff-ff-ff,RTIME=gg-gg];

3. EXPLANATION OF MESSAGE

a = GRC name (up to 10 characters).
b = GRC section number.
c = Mode of job to be rescheduled. Valid value(s):
   BACKOUT = Backout operation.
   UPDATE = Update operation.
d = Print one-line logging messages on the receive-only printer (ROP) for each update or backout of a line for this GRC job. Valid value(s):
   N = Disables the verbose option.
   Y = Enables the verbose option.
e = Allow a maximum of this many errors.
f = Release date, in the form month-day-year.
g = Release time, in the form hour-minute.

4. SYSTEM RESPONSE

NG = No good. The request was denied. The GRC:ERROR output message provides the reason for the failure.
PF = Printout follows. Followed by the GRC:STATUS output message indicating the beginning of the
operation.

5. REFERENCES

Input Message(s):

SCHED : GRC
CLR : GRC
EXC : GRC
STP : GRC

Output Message(s):

GRC:ERROR
GRC:STATUS

Other Manual(s):

Where (x) is the release-specific version of the specified manual.

235-118-251   Recent Change Procedures
235-118-25x   Recent Change Reference
235-070-100   Administration and Engineering Guidelines
GRC:RMV

Software Release: 5E14 and later
Command Group: RCV
Application: 5
Type: Input

1. PURPOSE

Requests that the specified global recent change (GRC) job be removed from the switch. This input message deletes every file and directory associated with the job.

Note: Use the RMV:GRC message since it will replace this message.

2. FORMAT

GRC:RMV, NAME=a;

3. EXPLANATION OF MESSAGE

\( a \) = GRC name (up to 10 characters).

4. SYSTEM RESPONSE

\( \text{NG} \) = No good. The request was denied. The GRC:ERROR output message follows with an explanation of the problem.

\( \text{PF} \) = Printout follows. The request was accepted. If the remove operation successfully completes, the execution is followed by the GRC:STATUS output message. If it fails, the execution is followed by the GRC:ERROR output message.

5. REFERENCES

Input Message(s):

- RMV: GRC
- SCHED: GRC

Output Message(s):

- GRC: ERROR
- GRC: STATUS

Other Manual(s):

Where (x) is the release-specific version of the specified manual.

- 235-118-251 Recent Change Procedures
- 235-118-25x Recent Change Reference
- 235-070-100 Administration and Engineering Guidelines
GRC:TEST-NAME
Software Release: 5E14 and later
Command Group: RCV
Application: 5
Type: Input

1. PURPOSE
Requests that a global recent change (GRC) test update job be run to verify that the correct updates will be applied.
Caution: The GRC test update job DOES update the ODDs.
If the updates are not desired at this time, then when the GRC test update job is completed, backout the updates using the SCHED:GRC input message. After the backout is completed, then reschedule the GRC update job for its original time and date using the SCHED:GRC input message.
Note: Use the TST:GRC message since it will replace this message.

2. FORMAT
[1] GRC:TEST,NAME=a[SECT=b],TN=c[-d];
[2] GRC:TEST,NAME=a[,SECT=b],MLHG=e[-f][,MEMB=g[-h]];

3. EXPLANATION OF MESSAGE
a = GRC name (up to 10 characters).
b = GRC section number.
c = First telephone number (TN) in the range of lines to be tested.
d = Last TN in range of lines to be tested.
e = First multi-line hunt group (MLHG) number in range to be tested.
f = Last MLHG in range to be tested.
g = First MLHG member number to be tested.
h = Last MLHG member number to be tested.

4. SYSTEM RESPONSE
NG = No good. The request was denied. The GRC:ERROR output message provides the reason for the failure.
PF = Printout follows. Followed by the GRC:STATUS output message indicating the beginning of the operation.
5. REFERENCES

Input Message(s):

REPT : GRC
RMV : GRC
SCHED : GRC
TST  : GRC

Output Message(s):

GRC : ERROR
GRC : STATUS

Other Manual(s):

Where (x) is the release-specific version of the specified manual.

235-118-251 Recent Change Procedures
235-118-25x Recent Change Reference
235-070-100 Administration and Engineering Guidelines
32. IF
IF:UT-CMP-A

Software Release: 5E14 only
Command Group: SFTUTIL
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Requests that a constant or variable in a communication module processor's (CMP) memory be compared against another constant or variable in the CMP memory. The two items being compared must be the same byte size and on the same processor. This message may be used together with an ELSE:UT-CMP input message.

If the comparison is true, any input messages after the IF input message are performed. If the comparison is false, any input messages after the ELSE input message are performed.

Note: The comparison is based on signed arithmetic.

IF statements can be nested. The IF:UT-CMP-ENDIF input message is used to signify the end of each IF clause.

This message may be used together with any of the other CMP generic utility input messages (refer to the input messages listed in the REFERENCES section).

If this message is used together with other generic utility messages, the END:UT-CMP input message may be used to signal the end of the series of messages.

WARNING: The user takes responsibility for any effects on system operation that result from the use of this input message. Know the effects of the message before using it.

2. FORMAT

IF:UT-CMP=a, {MATE|PRIM}[,EA1], {ADDR1=b|GVAR1="c"|SYMIDX1=d|REG1=e|UVAR1=f|VAL1=g}[,L1=h][,INDIR1=i][,OFF1=j[-j][-j]][,MSK1=k],l[,EA2], {ADDR2=m|GVAR2="n"|SYMIDX2=o|REG2=p|UVAR2=q|VAL2=r}[,L2=s][,INDIR2=t][,OFF2=u[-u][-u]][,MSK2=v]!|;}

3. EXPLANATION OF MESSAGE

EA1 = The first part of the comparison will use the determined effective address of the specified field instead of the contents of the specified field.

EA2 = The second part of the comparison will use the determined effective address of the specified field instead of the contents of the specified field.

MATE = Execute this input message on the standby CMP.

PRIM = Execute this input message on the active CMP.

a = CMP number.

b = Address for the first part of the comparison.
c = Symbolic name of the global variable for the first part of the comparison. The name is entered as a string of up to 15 characters, enclosed in double quotation marks. If the symbol name is greater than 15 characters the symbol index number 'd' must be used to enter this input message using symbolic access. The global variable's symbol index number can be determined by using the DUMP:UT-SYMID input message.

d = Symbol index number of the global variable or function for the first part of the comparison. The symbol index can be determined for this processor by using the DUMP:UT-SYMID input message.

e = Register (address registers A0-A7, data registers D0-D7, program counter PC, or status register SR) for the first part of the comparison.

f = Utility variable for the first part of the comparison.

g = Constant value for the first part of the comparison.

h = Length of the value (in bytes) to be used for the first part of the comparison. Default is 4 bytes for utility variable (UVAR) and register (REG) unless REG is the status register which defaults to 2 bytes, and 1 byte for absolute address (ADDR), global variable (GVAR) and symbol index (SYMIDX). Maximum length in bytes is 4.

i = Level of indirection for the first part of the comparison (maximum of 3, default is 0).

j = The offsets, in bytes, at each level of indirection for the first part of the comparison can range from 0-65535. However, offsets greater than 32767 will be treated as negative offsets. The default is zero.

k = Value of the mask to be "anded" with the final value for the first part of the comparison.

l = Conditionals used for the comparison (default is EQ). Valid value(s):
EQ = Equal to.
GE = Greater than or equal to.
GT = Greater than.
LE = Less than or equal to.
LT = Less than.
NE = Not equal to.

m = Address for the second part of the comparison.

n = Symbolic name of the global variable for the second part of the comparison. The name is entered as a string of up to 15 characters, enclosed in double quotation marks. If the symbol name is greater than 15 characters the symbol index number 'o' must be used to enter this input message using symbolic access. The global variable's symbol index number can be determined by using the DUMP:UT-SYMID input message.

o = Symbol index number of the global variable or function for the second part of the comparison. The symbol index can be determined for this processor by using the DUMP:UT-SYMID input message.

p = Register (address registers A0-A7, data registers D0-D7, program counter PC, or status register SR) for the second part of the comparison.

q = Utility variable for the second part of the comparison.
r = Constant value for the second part of the comparison.

s = Length of the value to be used for the second part of the comparison. Default is 4 bytes for UVAR and REG unless REG is the status register which defaults to 2 bytes, and 1 byte for ADDR, GVAR and SYMIDX. The maximum length in bytes is 4.

t = Level of indirection for the second part of the comparison (maximum of 3, default is 0).

u = The offsets, in bytes, at each level of indirection for the second part of the comparison can range from 0-65535. However, offsets greater than 32767 will be treated as negative offsets. The default is zero.

v = Value of the mask to be "anded" with the final value for the second part of the comparison.

4. SYSTEM RESPONSE

Refer to the APP:UT-IM-REASON appendix in the Appendixes section of the Input Messages manual.

5. REFERENCES

Input Message(s):

ALW:UT-CMP
CLR:UT-CMP
COPY:UT-CMP
DUMP:UT-CMP
DUMP:UT-SYMID
ELSE:UT-CMP
END:UT-CMP
EXC:UT-CMP
IF:UT-CMP-ENDIF
INH:UT-CMP
LOAD:UT-CMP
OP:UT-CMP
WHEN:UT-CMP

Output Message(s):

IF:UT-CMP

Input Appendix(es):

APP:UT-IM-REASON

Other Manual(s):
235-105-110 System Maintenance Requirements and Tools
IF:UT-CMP-B

Software Release: 5E15 and later
Command Group: SFTUTIL
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Requests that a constant or variable in a communication module processor's (CMP) memory be compared against another constant or variable in the CMP memory. The items being compared must be on the same processor. This message may be used together with an ELSE:UT-CMP input message.

If the comparison is true, any input messages after the IF input message are performed. If the comparison is false, any input messages after the ELSE input message are performed.

Note: The comparison is based on signed arithmetic. Internally UT always does a signed 4 byte comparison. For lengths less than 4 bytes, each value will be sign extended then “anded” with the mask prior to the completion of the comparison (e.g. a val2=h`80,l2=1 causes 4 byte comparison with h`ffffff80 while a val2=h`80,l2=2 causes a 4 byte comparision with h`00000080).

IF statements can be nested. The IF:UT-CMP-ENDIF input message is used to signify the end of each IF clause.

This message may be used together with any of the other CMP generic utility input messages (see the input messages listed in the References section).

If this message is used together with other generic utility messages, the END:UT-CMP input message may be used to signal the end of the series of messages.

WARNING: The user takes responsibility for any effects on system operation that result from the use of this input message. Know the effects of the message before using it.

2. FORMAT

IF:UT:CMP=a,{MATE|PRIM}[,EA1],{ADDR1=b|GVAR1="c"|SYMIDX1=d|REG1=e|UVAR1="f"|VAL1=g}[,L1=h][,INDIR1=i][,OFF1=j[-j][-j][-j]][,MSK1=k],l[,EA2],{ADDR2=m|GVAR2="n"|SYMIDX2=o|REG2=p|UVAR2=q|VAL2=r}[,L2=s][,INDIR2=t][,OFF2=u[-u][-u][-u]][,MSK2=v]{!|;}

3. EXPLANATION OF MESSAGE

EA1 = The first part of the comparison will use the determined effective address of the specified field instead of the contents of the specified field.

EA2 = The second part of the comparison will use the determined effective address of the specified field instead of the contents of the specified field.

MATE = Execute this input message on the standby CMP.

PRIM = Execute this input message on the active CMP.
a = CMP number.

b = Address for the first part of the comparison.

c = Symbolic name of the global variable for the first part of the comparison. The name is entered as
a string of up to 15 characters, enclosed in double quotation marks. If the symbol name is greater
than 15 characters the symbol index number ‘d’ must be used to enter this input message using
symbolic access. The global variable’s symbol index number can be determined by using the
DUMP:UT-SYMID input message.

d = Symbol index number of the global variable or function for the first part of the comparison. The
symbol index can be determined for this processor by using the DUMP:UT-SYMID input message.

e = Register for the first part of the comparison. The following registers can be used:
- If switch CM complex is a Model 3, the registers are general purpose registers
  GPR0, GPR2-GPR31, SP [which is GPR1], the link register LR, program counter
  PC, count register CTR, condition register CR, machine state register MSR, integer
  exception XER, external interrupt mask register EIMR (from module processor), and
  the system management interrupt mask register SMIMR (from module processor).
- If switch CM complex is Model 2 or earlier, the registers are address registers
  A0-A5, A6 [which is the frame pointer FP], A7 [which is the stack pointer SP], data
  registers D0-D7, program counter PC, or status register SR.

Note: This option of this input message can only be used as part of a generic utilities
WHEN input message clause.

f = Utility variable for the first part of the comparison.

g = Constant value for the first part of the comparison.

h = Length of the value (in bytes) to be used for the first part of the comparison. Default is 4 bytes for
utility variable (UVAR), constant value (VAL) and register (REG) unless REG is the status register
which defaults to 2 bytes, and 1 byte for absolute address (ADDR), global variable (GVAR) and
symbol index (SYMIDX). Maximum length in bytes is 4. It is suggested that the length and mask
values being compared be of the same byte size on each side of the comparison.

i = Level of indirection for the first part of the comparison (maximum of 3, default is 0).

j = The offsets, in bytes, at each level of indirection for the first part of the comparison can range
from 0-65535. However, offsets greater than 32767 will be treated as negative offsets. The default
is zero.

k = Value of the mask to be "anded" with the final value for the first part of the comparison. Mask
operations are always performed with a mask of 0xffffffff unless another mask value is provided.

l = Conditionals used for the comparison (default is EQ). Valid values are:

  EQ   = Equal to.
  GE   = Greater than or equal to.
  GT   = Greater than.
  LE   = Less than or equal to.
LT = Less than.
NE = Not equal to.

m = Address for the second part of the comparison.
n = Symbolic name of the global variable for the second part of the comparison. The name is entered as a string of up to 15 characters, enclosed in double quotation marks. If the symbol name is greater than 15 characters the symbol index number ‘o’ must be used to enter this input message using symbolic access. The global variable’s symbol index number can be determined by using the DUMP:UT-SYMID input message.
o = Symbol index number of the global variable or function for the second part of the comparison. The symbol index can be determined for this processor by using the DUMP:UT-SYMID input message.
p = Register for the second part of the comparison. The following registers can be used:
- If switch CM complex is a Model 3, the registers are general purpose registers GPR0, GPR2-GPR31, SP [which is GPR1], the link register LR, program counter PC, count register CTR, condition register CR, machine state register MSR, integer exception XER, external interrupt mask register EIMR (from module processor), and the system management interrupt mask register SMIMR (from module processor).
- If switch CM complex is Model 2 or earlier, the registers are address registers A0-A5, A6 [which is the frame pointer FP], A7 [which is the stack pointer SP], data registers D0-D7, program counter PC, or status register SR.

Note: This option of this input message can only be used as part of a generic utilities WHEN input message clause.

q = Utility variable for the second part of the comparison.
r = Constant value for the second part of the comparison.
s = Length of the value to be used for the second part of the comparison. Default is 4 bytes for UVAR, VAL and REG unless REG is the status register which defaults to 2 bytes, and 1 byte for ADDR, GVAR and SYMIDX. The maximum length in bytes is 4. It is suggested that the length and mask values being compared be of the same byte size on each side of the comparison.

t = Level of indirection for the second part of the comparison (maximum of 3, default is 0).
u = The offsets, in bytes, at each level of indirection for the second part of the comparison can range from 0-65535. However, offsets greater than 32767 will be treated as negative offsets. The default is zero.
v = Value of the mask to be "anded" with the final value for the second part of the comparison. Mask operations are always performed with a mask of 0xffffffff unless another mask value is provided.

4. SYSTEM RESPONSE

Refer to the APP:UT-IM-REASON appendix in the Appendixes section of the Input Messages manual.

5. REFERENCES
Input Message(s):

ALW:UT-CMP
CLR:UT-CMP
COPY:UT-CMP
DUMP:UT-CMP
DUMP:UT-SYMID
ELSE:UT-CMP
END:UT-CMP
EXC:UT-CMP
IF:UT-CMP-ENDIF
INH:UT-CMP
LOAD:UT-CMP
OP:UT-CMP
WHEN:UT-CMP

Output Message(s):

IF:UT-CMP

Input Appendix(es):

APP:UT-IM-REASON

Other Manual(s):

235-105-110  System Maintenance Requirements and Tools
IF:UT-CMP-ENDIF

Software Release: 5E14 and later
Command Group: SFTUTIL
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Signifies the end of an IF-ELSE statement in the communication module processor (CMP) and must be used in combination with the IF:UT-CMP input message.

This message may also be used together with any of the other CMP generic utility input messages. Refer to the References section of this message. If this message is used together with other generic utility messages, the END:UT-CMP input message may be used to signal the end of the series of messages.

WARNING: The user takes responsibility for any effects on system operation that result from the use of this input message. Know the effects of the message before using it.

2. FORMAT

IF:UT:CMP=a,ENDIF,{MATE|PRIM};

3. EXPLANATION OF MESSAGE

MATE = Execute this input message on the standby CMP.
PRIM = Execute this input message on the active CMP.
a = CMP number.

4. SYSTEM RESPONSE

Refer to the APP:UT-IM-REASON appendix in the Appendixes section of the Input Messages manual.

5. REFERENCES

Input Message(s):

ALW:UT-CMP
CLR:UT-CMP
COPY:UT-CMP
DUMP:UT-CMP
ELSE:UT-CMP
END:UT-CMP
EXC:UT-CMP
IF:UT-CMP
INH:UT-CMP
LOAD:UT-CMP
OP:UT-CMP
WHEN:UT-CMP
Output Message(s):

    IF:UT-CMP-ENDIF

Input Appendix(es):

    APP:UT-IM-REASON

Other Manual(s):
235-105-110   System Maintenance Requirements and Tools
IF:UT-MCTSI-PE

Software Release: 5E14 and later
Command Group: SFTUTIL
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Requests the end of an IF-ELSE statement in the packet interface (PI) unit and must be used in combination with the IF:UT-MCTSI-PI input message.

Note: This input message is only supported on PIs of the PI2 hardware type.

WARNING: The user is responsible for any effects on system operation that result from the use of this input message. Know the effects of the message before using it.

2. FORMAT

IF:UT:MCTSI=a-b,PI,ENDIF;

3. EXPLANATION OF MESSAGE

a = Switching module (SM) number.
b = Side of the module controller/time-slot interchange (MCTSI).

4. SYSTEM RESPONSE

Refer to the APP:UT-IM-REASON appendix in the Appendixes section of the Input Messages manual.

5. REFERENCES

Input Message(s):

ALW:UT-MCTSI-PI
CLR:UT-MCTSI-PI
COPY:UT-MCTSI-PI
DUMP:UT-MCTSI-PI
ELSE:UT-MCTSI-PI
END:UT-MCTSI-PI
EXC:UT-MCTSI-PI
IF:UT-MCTSI-PI
INH:UT-MCTSI-PI
LOAD:UT-MCTSI-PI
OP:UT-MCTSI-PI
WHEN:UT-MCTSI-PI

Input Appendix(es):
**IF:UT-MCTSI-PI**

**Software Release:** 5E14 and later  
**Command Group:** SFTUTIL  
**Application:** 5  
**Type:** Input

**WARNING:** INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. **PURPOSE**

Requests that a constant or variable in a packet interface (PI) unit memory be compared against another constant or variable in the PI memory. The items being compared must be on the same processor. This message may be used together with an ELSE:UT-PI input message.

If the comparison is true, any input messages after the IF input message are performed. If the comparison is false, any input messages after the ELSE input message are performed.

**Note:** The comparison is based on signed arithmetic. Internally UT always does a signed 4 byte comparison. For lengths less than 4 bytes, each value will be sign extended then "anded" with the mask prior to the completion of the comparison (e.g. a val2=h’80,l2=1 causes 4 byte comparison with h’ffffff80 while a val2=h’80,l2=2 causes a 4 byte comparison with h’00000080).

If statements can be nested. The IF:UT-MCTSI-PE input message is used to signify the end of each IF clause.

**Note:** This input message is only supported on PIs of the PI2 hardware type.

This message may be used together with any of the other PI generic utility input messages (refer to the input messages listed in the REFERENCES section).

If this message is used together with other generic utility messages, the END:UT-PI input message may be used to signal the end of the series of messages.

**WARNING:** The user is responsible for any effects on system operation that result from the use of this input message. Know the effects of the message before using it.

2. **FORMAT**

IF:UT:MCTSI=a-b,PI[,EA1],{ADDR1=c|GVAR1="d"|SYMIDX1=e|REG1=f|UVAR1=g|VAL1=h},[L1=i],[INDIR1=j],[OFF1=k[-k][-k][-k]],[MSK1=l],m[,EA2],{ADDR2=n|GVAR2="o"|SYMIDX2=p|REG2=q|UVAR2=r|VAL2=s},[L2=t],[INDIR2=u],[OFF2=v[-v][-v][-v]],[MSK2=w]{!|;}

3. **EXPLANATION OF MESSAGE**

**EA1**

= The first part of the comparison will use the determined effective address of the specified field instead of the contents of the specified field.

**EA2**

= The second part of the comparison will use the determined effective address of the specified field instead of the contents of the specified field.

**a**

= Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section.
of the Input Messages manual.

b = Side of the module controller/time-slot interchange (MCTSI). Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

c = Address for the first part of the comparison.

d = Symbolic name of the global variable for the first part of the comparison. The name is entered as a string of up to 15 characters, enclosed in double quotation marks. If the symbol name is greater than 15 characters the symbol index number ‘e’ must be used to enter this input message using symbolic access. The global variable’s symbol index number can be determined by using the DUMP:UT-SYMID input message.

e = Symbol index number of the global variable or function for the first part of the comparison. The symbol index can be determined for this processor by using the DUMP:UT-SYMID input message.

f = Register (address registers A0-A7, data registers D0-D7, program counter PC, or status register SR) for the first part of the comparison.

g = Utility variable (UVAR) for the first part of the comparison. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

h = Constant value for the first part of the comparison.

i = Length of the value (in bytes) to be used for the first part of the comparison. Default is 4 bytes for UVAR, VAL and REG unless REG is the status register which defaults to 2 bytes, and 1 byte for ADDR, GVAR and SYMIDX. Maximum length in bytes is 4. It is suggested that the length and mask values being compared be of the same byte size on each side of the comparison.

j = Level of indirection for the first part of the comparison (maximum of 3, default is 0).

k = The offsets, in bytes, at each level of indirection for the first part of the comparison can range from 0-65535. However, offsets greater than 32767 will be treated as negative offsets. The default is zero.

l = Value of the mask to be "anded" with the final value for the first part of the comparison. Mask operations are always performed with a mask of 0xffffffff unless another mask value is provided.

m = Conditionals used for the comparison (default is EQ). Valid value(s):

EQ = Equal to.

GE = Greater than or equal to.

GT = Greater than.

LE = Less than or equal to.

LT = Less than.

NE = Not equal to.

n = Address for the second part of the comparison.

o = Symbolic name of the global variable for the second part of the comparison. The name is entered
as a string of up to 15 characters, enclosed in double quotation marks. If the symbol name is greater than 15 characters the symbol index number ‘p’ must be used to enter this input message using symbolic access. The global variable's symbol index number can be determined by using the DUMP:UT-SYMID input message.

Symbol index number of the global variable or function for the second part of the comparison. The symbol index can be determined for this processor by using the DUMP:UT-SYMID input message.

q = Register (address registers A0-A7, data registers D0-D7, program counter PC, or status register SR) for the second part of the comparison.

r = Utility variable for the second part of the comparison. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

s = Constant value for the second part of the comparison.

t = Length of the value to be used for the second part of the comparison. Default is 4 bytes for UVAR, VAL and REG unless REG is the status register which defaults to 2 bytes, and 1 byte for ADDR, GVAR and SYMIDX. The maximum length in bytes is 4. It is suggested that the length and mask values being compared be of the same byte size on each side of the comparison.

u = Level of indirection for the second part of the comparison (maximum of 3, default is 0).

v = The offsets, in bytes, at each level of indirection for the second part of the comparison can range from 0-65535. However, offsets greater than 32767 will be treated as negative offsets. The default is zero.

w = Value of the mask to be "anded" with the final value for the second part of the comparison. Mask operations are always performed with a mask of 0xffffffff unless another mask value is provided.

4. SYSTEM RESPONSE

Refer to the APP:UT-IM-REASON appendix in the Appendixes section of the Input Messages manual.

5. REFERENCES

Input Message(s):

ALW:UT-MCTSI-PI
CLR:UT-MCTSI-PI
COPY:UT-MCTSI-PI
DUMP:UT-MCTSI-PI
DUMP:UT-SYMID
ELSE:UT-MCTSI-PI
END:UT-MCTSI-PI
EXC:UT-MCTSI-PI
IF:UT-MCTSI-PE
INH:UT-MCTSI-PI
LOAD:UT-MCTSI-PI
OP:UT-MCTSI-PI
WHEN:UT-MCTSI-PI
Other Manual(s):
235-105-110 System Maintenance Requirements and Tools
IF:UT-PSUPH-A

Software Release: 5E14 only
Command Group: SFTUTIL
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Requests that a constant or variable in a packet switch unit protocol handler's (PSUPH) memory be compared against another constant or variable in the PSUPH memory. The two items being compared must be the same byte size and on the same processor. This message may be used together with an ELSE:UT-PSUPH input message.

If the comparison is true, any input messages after the IF input message are performed. If the comparison is false, any input messages after the ELSE input message are performed.

Note: The comparison is based on signed arithmetic.

IF statements can be nested. The IF:UT-PSUPH-END input message is used to signify the end of each IF clause.

Note: This input message is only supported on PSUPHs of the PH3/PH4 and later hardware types (that is, not PH2 hardware types).

This message may be used together with any of the other PSUPH generic utility input messages (refer to the input messages listed in the References section).

If this message is used together with other generic utility messages, the END:UT-PSUPH input message may be used to signal the end of the series of messages.

WARNING: The user is responsible for any effects on system operation that result from the use of this input message. Know the effects of the message before using it.

2. FORMAT

IF:UT-PSUPH=a-b-c-d[,EA1],{ADDR1=e|GVAR1="f"|SYMDX1=g|REG1=h|UVAR1=i|VAL1=j}[,L1=k][,INDIR1=l][,OFF1=m[-m][-m]][,MSK1=n],o[,EA2],{ADDR2=p|GVAR2="q"|SYMDX2=r|REG2=s|UVAR2=t|VAL2=u}[,L2=v][,INDIR2=w][,OFF2=x[-x][-x]][,MSK2=y]{!|;}

3. EXPLANATION OF MESSAGE

EA1 = The first part of the comparison will use the determined effective address of the specified field instead of the contents of the specified field.

EA2 = The second part of the comparison will use the determined effective address of the specified field instead of the contents of the specified field.

a = Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

b = Unit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input
Messages manual.

c = Shelf number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

d = Slot number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

e = Address for the first part of the comparison.

f = Symbolic name of the global variable for the first part of the comparison. The name is entered as a string of up to 15 characters, enclosed in double quotation marks. If the symbol name is greater than 15 characters the symbol index number ‘g’ must be used to enter this input message using symbolic access. The global variable’s symbol index number can be determined by using the DUMP:UT-SYMID input message.

g = Symbol index number of the global variable or function for the first part of the comparison. The symbol index can be determined for this processor by using the DUMP:UT-SYMID input message.

h = Register (address registers A0-A7, data registers D0-D7, program counter PC, or status register SR) for the first part of the comparison.

i = Utility variable (UVAR) for the first part of the comparison. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

j = Constant value for the first part of the comparison.

k = Length of the value (in bytes) to be used for the first part of the comparison. Default is 4 bytes for UVAR and REG unless REG is the status register which defaults to 2 bytes, and 1 byte for ADDR, GVAR and SYMIDX. Maximum length in bytes is 4.

l = Level of indirection for the first part of the comparison (maximum of 3, default is 0).

m = The offsets, in bytes, at each level of indirection for the first part of the comparison can range from 0-65535. However, offsets greater than 32767 will be treated as negative offsets. The default is zero.

n = Value of the mask to be “anded” with the final value for the first part of the comparison.

o = Conditionals used for the comparison (default is EQ). Valid value(s):

EQ = Equal to.
GE = Greater than or equal to.
GT = Greater than.
LE = Less than or equal to.
LT = Less than.
NE = Not equal to.

p = Address for the second part of the comparison.

q = Symbolic name of the global variable for the second part of the comparison. The name is entered as a string of up to 15 characters, enclosed in double quotation marks. If the symbol name is greater than 15 characters the symbol index number ‘r’ must be used to enter this input message using symbolic access. The global variable’s symbol index number can be determined by using the DUMP:UT-SYMID input message.
Symbol index number of the global variable or function for the second part of the comparison. The symbol index can be determined for this processor by using the DUMP:UT-SYMID input message.

Register (address registers A0-A7, data registers D0-D7, program counter PC, or status register SR) for the second part of the comparison.

Utility variable for the second part of the comparison. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

Constant value for the second part of the comparison.

Length of the value to be used for the second part of the comparison. Default is 4 bytes for UVAR and REG unless REG is the status register which defaults to 2 bytes, and 1 byte for ADDR, GVAR and SYMIDX. The maximum length in bytes is 4.

Level of indirection for the second part of the comparison (maximum of 3, default is 0).

The offsets, in bytes, at each level of indirection for the second part of the comparison can range from 0-65535. However, offsets greater than 32767 will be treated as negative offsets. The default is zero.

Value of the mask to be "anded" with the final value for the second part of the comparison.

4. SYSTEM RESPONSE

Refer to the APP:UT-IM-REASON appendix in the Appendixes section of the Input Messages manual.

5. REFERENCES

Input Message(s):

ALW:UT-PSUPH
CLR:UT-PSUPH
COPY:UT-PSUPH
DUMP:UT-PSUPH
DUMP:UT-SYMID
ELSE:UT-PSUPH
END:UT-PSUPH
EXC:UT-PSUPH
IF:UT-PSUPH-END
INH:UT-PSUPH
LOAD:UT-PSUPH
OP:UT-PSUPH
WHEN:UT-PSUPH

Output Message(s):

IF:UT-PSUPH

Input Appendix(es):

APP:RANGES
APP:UT-IM-REASON
Other Manual(s):
235-105-110  System Maintenance Requirements and Tools
IF:UT-PSUPH-B

**Software Release:** 5E15 only  
**Command Group:** SFTUTIL  
**Application:** 5  
**Type:** Input

**WARNING:** INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. **PURPOSE**

Requests that a constant or variable in a packet switch unit protocol handler's (PSUPH) memory be compared against another constant or variable in the PSUPH memory. The two items being compared must be the same byte size and on the same processor. This message may be used together with an ELSE:UT-PSUPH input message.

If the comparison is true, any input messages after the IF input message are performed. If the comparison is false, any input messages after the ELSE input message are performed.

Note: The comparison is based on signed arithmetic.

IF statements can be nested. The IF:UT-PSUPH-END input message is used to signify the end of each IF clause.

Note: This input message is only supported on PSUPHs of the PH3/PH4 and later hardware types (that is, not PH2 hardware types).

This message may be used together with any of the other PSUPH generic utility input messages (refer to the input messages listed in the References section).

If this message is used together with other generic utility messages, the END:UT-PSUPH input message may be used to signal the end of the series of messages.

**WARNING:** The user is responsible for any effects on system operation that result from the use of this input message. Know the effects of the message before using it.

2. **FORMAT**

```
IF:UT-PSUPH=a-b-c-d[,EA1],{ADDR1=e|GVAR1="f"|SYMIDX1=g|REG1=h|...  
...UVAR1=i|VAL1=j][,L1=k][,INDIR1=l][,OFF1=m[-m[-m]]][,MSK1=n],o...  
...[,EA2]{ADDR2=p|GVAR2="q"|SYMIDX2=r|REG2=s|UVAR2=t|VAL2=u}...  
...[,L2=v][,INDIR2=w][,OFF2=x[-x[-x]]][,MSK2=y]{!|;}
```

3. **EXPLANATION OF MESSAGE**

- **EA1** = The first part of the comparison will use the determined effective address of the specified field instead of the contents of the specified field.

- **EA2** = The second part of the comparison will use the determined effective address of the specified field instead of the contents of the specified field.

- **a** = Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

- **b** = Unit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
Messages manual.

c = Shelf number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

d = Slot number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

e = Address for the first part of the comparison.

f = Symbolic name of the global variable for the first part of the comparison. The name is entered as a string of up to 15 characters, enclosed in double quotation marks. If the symbol name is greater than 15 characters the symbol index number ‘g’ must be used to enter this input message using symbolic access. The global variable’s symbol index number can be determined by using the DUMP:UT-SYMID input message.

g = Symbol index number of the global variable or function for the first part of the comparison. The symbol index can be determined for this processor by using the DUMP:UT-SYMID input message.

h = Register for the first part of the comparison. The following registers can be used:

- If PSUPH is a PHV5 hardware type, the registers are general purpose registers GPR0, GPR2-GPR31, the stack pointer SP [which is GPR1], the link register LR, program counter PC, count register CTR, condition register CR, machine state register MSR, and the integer exception register XER.

- If PSUPH is a PH[3-4,6,22], PHA, PHV[1-4] hardware type, the registers are address registers A0-A5, A6 [which is the frame pointer FP], A7 [which is the stack pointer SP], data registers D0-D7, program counter PC, and status register SR.

i = Utility variable (UVAR) for the first part of the comparison. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

j = Constant value for the first part of the comparison.

k = Length of the value (in bytes) to be used for the first part of the comparison. Default is 4 bytes for UVAR and REG unless REG is the status register which defaults to 2 bytes, and 1 byte for ADDR, GVAR and SYMIDX. Maximum length in bytes is 4.

l = Level of indirection for the first part of the comparison (maximum of 3, default is 0).

m = The offsets, in bytes, at each level of indirection for the first part of the comparison can range from 0-65535. However, offsets greater than 32767 will be treated as negative offsets. The default is zero.

n = Value of the mask to be "anded" with the final value for the first part of the comparison.

o = Conditionals used for the comparison (default is EQ). Valid value(s):

EQ = Equal to.
GE = Greater than or equal to.
GT = Greater than.
LE = Less than or equal to.
LT = Less than.
NE = Not equal to.
p = Address for the second part of the comparison.

q = Symbolic name of the global variable for the second part of the comparison. The name is entered as a string of up to 15 characters, enclosed in double quotation marks. If the symbol name is greater than 15 characters the symbol index number "r" must be used to enter this input message using symbolic access. The global variable's symbol index number can be determined by using the DUMP:UT-SYMID input message.

r = Symbol index number of the global variable or function for the second part of the comparison. The symbol index can be determined for this processor by using the DUMP:UT-SYMID input message.

s = Register for the second part of the comparison. The following registers can be used:
- If PSUPH is a PHV5 hardware type, the registers are general purpose registers GPR0, GPR2-GPR31, the stack pointer SP [which is GPR1], the link register LR, program counter PC, count register CTR, condition register CR, machine state register MSR, and the integer exception register XER.
- If PSUPH is a PH[3-4,6,22], PHA, PHV[1-4] hardware type, the registers are address registers A0-A5, A6 [which is the frame pointer FP], A7 [which is the stack pointer SP], data registers D0-D7, program counter PC, and status register SR.

t = Utility variable for the second part of the comparison. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

u = Constant value for the second part of the comparison.

v = Length of the value to be used for the second part of the comparison. Default is 4 bytes for UVAR and REG unless REG is the status register which defaults to 2 bytes, and 1 byte for ADDR, GVAR and SYMIDX. The maximum length in bytes is 4.

w = Level of indirection for the second part of the comparison (maximum of 3, default is 0).

x = The offsets, in bytes, at each level of indirection for the second part of the comparison can range from 0-65535. However, offsets greater than 32767 will be treated as negative offsets. The default is zero.

y = Value of the mask to be "anded" with the final value for the second part of the comparison.

4. SYSTEM RESPONSE

Refer to the APP:UT-IM-REASON appendix in the Appendixes section of the Input Messages manual.

5. REFERENCES

Input Message(s):

ALW:UT-PSUPH
CLR:UT-PSUPH
COPY:UT-PSUPH
DUMP:UT-PSUPH
DUMP:UT-SYMID
ELSE:UT-PSUPH
END:UT-PSUPH
EXC:UT-PSUPH
IF:UT-PSUPH-END
INH: UT-PSUPH
LOAD: UT-PSUPH
OP: UT-PSUPH
WHEN: UT-PSUPH

Output Message(s):

IF: UT-PSUPH

Input Appendix(es):

APP: RANGES
APP: UT-IM-REASON

Other Manual(s):
235-105-110 System Maintenance Requirements and Tools
IF:UT-PSUPH-C

Software Release: 5E16(1) and later
Command Group: SFTUTIL
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Requests that a constant or variable in a packet switch unit protocol handler's (PSUPH) memory be compared against another constant or variable in the PSUPH memory. The items being compared must be on the same processor. This message may be used together with an ELSE:UT-PSUPH input message.

If the comparison is true, any input messages after the IF input message are performed. If the comparison is false, any input messages after the ELSE input message are performed.

The comparison is based on signed arithmetic. Internally UT always does a signed 4 byte comparison. For lengths less than 4 bytes, each value will be sign extended then "anded" with the mask prior to the completion of the comparison (such as, a val2=h`80,l2=1 causes 4 byte comparison with h`ffffff80 while a val2=h`80,l2=2 causes a 4 byte comparison with h`00000080).

IF statements can be nested. The IF:UT-PSUPH-END input message is used to signify the end of each IF clause.

This input message is not supported on PSUPHs of the PH2 hardware type and is supported on all other.

This message may be used together with any of the other PSUPH generic utility input messages (refer to the input messages listed in the References section).

If this message is used together with other generic utility messages, the END:UT-PSUPH input message may be used to signal the end of the series of messages.

WARNING: The user is responsible for any effects on system operation that result from the use of this input message. Know the effects of the message before using it.

2. FORMAT

IF:UT:PSUPH=a-b-c-d[,EA1],[ADDR1=e|GVAR1="f"|SYMIDX1=g|REG1=h|...
...UVAR1=i|VAL1=j|L1=k|INDIR1=l|OFF1=m[-m[]]|MSK1=n],o...
...[,EA2],[ADDR2=p|GVAR2="q"|SYMIDX2=r|REG2=s|UVAR2=t|VAL2=u]...
...[,L2=v|INDIR2=w|OFF2=x[-x[]]|MSK2=y]{!;};

3. EXPLANATION OF MESSAGE

EA1 = The first part of the comparison will use the determined effective address of the specified field instead of the contents of the specified field.

EA2 = The second part of the comparison will use the determined effective address of the specified field instead of the contents of the specified field.

a = Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
b = Packet Switching Unit (PSU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

c = Shelf number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

d = Slot number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

e = Address for the first part of the comparison.

f = Symbolic name of the global variable for the first part of the comparison. The name is entered as a string of up to 15 characters, enclosed in double quotation marks. If the symbol name is greater than 15 characters the symbol index number ‘g’ must be used to enter this input message using symbolic access. The global variable’s symbol index number can be determined by using the DUMP:UT-SYMID input message.

g = Symbol index number of the global variable or function for the first part of the comparison. The symbol index can be determined for this processor by using the DUMP:UT-SYMID input message.

h = Register for the first part of the comparison. Valid value(s):

<table>
<thead>
<tr>
<th>PSUPH Hardware Type:</th>
<th>Registers:</th>
</tr>
</thead>
<tbody>
<tr>
<td>PHV5, PHV6, PH31, PHA2, or PHE2</td>
<td>GPR0 = General purpose register.</td>
</tr>
<tr>
<td></td>
<td>GPR2-GPR31 = General purpose registers.</td>
</tr>
<tr>
<td></td>
<td>SP = Stack pointer SP (also known as GPR1).</td>
</tr>
<tr>
<td></td>
<td>LR = Link register.</td>
</tr>
<tr>
<td></td>
<td>PC = Program counter.</td>
</tr>
<tr>
<td></td>
<td>CTR = Count register.</td>
</tr>
<tr>
<td></td>
<td>CR = Condition register.</td>
</tr>
<tr>
<td></td>
<td>MSR = Machine state register.</td>
</tr>
<tr>
<td></td>
<td>XER = Exception register XER.</td>
</tr>
<tr>
<td>PH[3-4,6,22], PHA or PHV[1-4]</td>
<td>A0-A5 = Address registers.</td>
</tr>
<tr>
<td></td>
<td>A6 = the frame pointer FP.</td>
</tr>
<tr>
<td></td>
<td>A7 = Stack pointer SP.</td>
</tr>
<tr>
<td></td>
<td>D0-D7 = Data registers.</td>
</tr>
<tr>
<td></td>
<td>PC = Program counter.</td>
</tr>
<tr>
<td></td>
<td>SR = Status register SR.</td>
</tr>
</tbody>
</table>

i = Utility variable (UVAR) for the first part of the comparison. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

j = Constant value for the first part of the comparison.

k = Length of the value (in bytes) to be used for the first part of the comparison. Default is 4 bytes for UVAR, VAL and REG unless REG is the status register which defaults to 2 bytes, and 1 byte for ADDR, GVAR, and SYMIDX. Maximum length in bytes is 4. It is suggested that the length and mask values being compared be of the same byte size on each side of the comparison.

l = Level of indirection for the first part of the comparison (maximum of 3, default is 0).

m = The offsets, in bytes, at each level of indirection for the first part of the comparison can range from 0-65535. However, offsets greater than 32767 will be treated as negative offsets. The default is zero.
\(n\) = Value of the mask to be "anded" with the final value for the first part of the comparison. Mask operations are always performed with a mask of 0xffffffff unless another mask value is provided.

\(o\) = Conditionals used for the comparison (default is EQ). Valid value(s):
- **EQ** = Equal to.
- **GE** = Greater than or equal to.
- **GT** = Greater than.
- **LE** = Less than or equal to.
- **LT** = Less than.
- **NE** = Not equal to.

\(p\) = Address for the second part of the comparison.

\(q\) = Symbolic name of the global variable for the second part of the comparison. The name is entered as a string of up to 15 characters, enclosed in double quotation marks. If the symbol name is greater than 15 characters the symbol index number 'r' must be used to enter this input using symbolic access. The global variable's symbol index number can be determined by using the DUMP:UT-SYMID input message.

\(r\) = Symbol index number of the global variable or function for the second part of the comparison. The symbol index can be determined for this processor by using the DUMP:UT-SYMID input message.

\(s\) = Register for the second part of the comparison. Valid value(s):

<table>
<thead>
<tr>
<th>PSUPH Hardware Type:</th>
<th>Registers:</th>
</tr>
</thead>
<tbody>
<tr>
<td>(PHV5, PHV6, PH31, PHA2,) or (PHE2)</td>
<td>(GPR0 = ) General purpose register. (GPR2-GPR31 = ) General purpose registers. (SP = ) Stack pointer SP (also known as (GPR1)). (LR = ) Link register. (PC = ) Program counter. (CTR = ) Count register. (CR = ) Condition register. (MSR = ) Machine state register. (XER = ) Exception register XER.</td>
</tr>
<tr>
<td>(PH[3-4,6,22], PHA ) or (PHV[1-4])</td>
<td>(A0-A5 = ) Address registers. (A6 = ) the frame pointer FP. (A7 = ) Stack pointer SP. (D0-D7 = ) Data registers. (PC = ) Program counter. (SR = ) Status register SR.</td>
</tr>
</tbody>
</table>

\(t\) = Utility variable for the second part of the comparison. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

\(u\) = Constant value for the second part of the comparison.

\(v\) = Length of the value to be used for the second part of the comparison. Default is 4 bytes for UVAR, VAL and REG unless REG is the status register which defaults to 2 bytes, and 1 byte for ADDR, GVAR, and SYMIDX. The maximum length in bytes is 4. It is suggested that the length and mask values being compared be of the same byte size on each side of the comparison.

\(w\) = Level of indirection for the second part of the comparison (maximum of 3, default is 0).
= The offsets, in bytes, at each level of indirection for the second part of the comparison can range from 0-65535. However, offsets greater than 32767 will be treated as negative offsets. The default is zero.

\( y \) = Value of the mask to be "anded" with the final value for the second part of the comparison. Mask operations are always performed with a mask of 0xffffffff unless another mask value is provided.

### 4. SYSTEM RESPONSE

Refer to the APP:UT-IM-REASON appendix in the Appendixes section of the Input Messages manual.

### 5. REFERENCES

**Input Message(s):**

- ALW:UT-PSUPH
- CLR:UT-PSUPH
- COPY:UT-PSUPH
- DUMP:UT-PSUPH
- DUMP:UT-SYMID
- ELSE:UT-PSUPH
- END:UT-PSUPH
- EXC:UT-PSUPH
- IF:UT-PSUPH-END
- INH:UT-PSUPH
- LOAD:UT-PSUPH
- OP:UT-PSUPH
- WHEN:UT-PSUPH

**Output Message(s):**

- IF:UT-PSUPH

**Input Appendix(es):**

- APP:RANGES
- APP:UT-IM-REASON

**Other Manual(s):**

235-105-110  *System Maintenance Requirements and Tools*
IF:UT-PSUPH-END-A

Software Release: 5E14 - 5E15
Command Group: SFTUTIL
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Requests the end of an IF-ELSE statement in the packet switch unit protocol handler (PSUPH) and must be used in combination with the IF:UT-PSUPH input message.

Note: This input message is only supported on PSUPHs of the PH3/PH4 hardware type (that is, not PH2 hardware types).

This message may also be used with any of the other PSUPH generic utility input messages. Refer to the References section of this message.

If this message is used with other generic utility messages, the END:UT-PSUPH input message may be used to signal the end of the series of messages.

WARNING: The user is responsible for any effects on system operation that result from the use of this input message. Know the effects of the message before using it.

2. FORMAT

IF:UT:PSUPH=a-b-c-d,ENDIF;

3. EXPLANATION OF MESSAGE

a = Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

b = Unit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

c = Shelf number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

d = Slot number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

Refer to the APP:UT-IM-REASON appendix in the Appendixes section of the Input Messages manual.

5. REFERENCES

Input Message(s):
Output Message(s):

    IF:UT-PSUPH-END

Input Appendix(es):

    APP:UT-IM-REASON

Other Manual(s):
235-105-110   System Maintenance Requirements and Tools
235-600-400   Audits
IF:UT-PSUPH-END-B
Software Release: 5E16(1) and later
Command Group: SFTUTIL
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE
Requests the end of an IF-ELSE statement in the packet switch unit protocol handler (PSUPH) and must be used in combination with the IF:UT-PSUPH input message.

NOTE: This input message is not supported on PSUPHs of the PH2 hardware type and is supported on all others.

This message may also be used with any of the other PSUPH generic utility input messages. Refer to the References section of this message.

If this message is used with other generic utility messages, the END:UT-PSUPH input message may be used to signal the end of the series of messages.

WARNING: The user is responsible for any effects on system operation that result from the use of this input message. Know the effects of the message before using it.

2. FORMAT
IF:UT:PSUPH=a-b-c-d,ENDIF{!|;}

3. EXPLANATION OF MESSAGE
a = Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
b = Packet switching unit (PSU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
c = Shelf number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
d = Slot number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE
Refer to the APP:UT-IM-REASON appendix in the Appendixes section of the Input Messages manual.

5. REFERENCES
Input Message(s):
ALW:UT-PSUPH
Output Message(s):

   IF:UT-PSUPH-END

Input Appendix(es):

   APP:RANGES
   APP:UT-IM-REASON

Other Manual(s):
235-105-110 System Maintenance Requirements and Tools
235-600-400 Audits
IF:UT-SM-A

Software Release: 5E14 - 5E16(1)
Command Group: SFTUTIL
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Requests that a constant or variable in a switching module’s (SM) memory be compared against another constant or variable in the SM memory. This message may be used together with an ELSE:UT-SM input message.

If the comparison is true, any input messages after the IF input message are performed. If the comparison is false, any input messages after the ELSE input message are performed.

Note: The comparison is based on signed arithmetic. Internally UT always does a signed 4 byte comparison. For lengths less than 4 bytes, each value will be sign extended then “anded” with the mask prior to the completion of the comparison (e.g. a val2=h`80,l2=1 causes 4 byte comparison with h`ffffff80 while a val2=h`80,l2=2 causes a 4 byte comparison with h`00000080).

IF statements can be nested. The IF:UT-SM-ENDIF input message is used to signify the end of each IF clause.

This message may be used together with any of the other SM generic utility input messages (refer to the input messages listed in the REFERENCES section).

If this message is used together with other utility messages, the END:UT-SM input message may be used to signal the end of the series of messages.

WARNING: The user is responsible for any effects on system operation that result from the use of this input message. Know the effects of the message before using it.

2. FORMAT

IF:UT:SM=a{[,MATE1] [,EA1] {,ADDR1=b ,GVAR1="c" ,SYMIDX1=d | ,REG1=e | ,UVAR1=f | ,VAL1=g | ,L1=h | ,INDIR1=i | ,OFF1=j[-j] -j ] } [,MSK1=k] ,l [,MATE2] [,EA2] ,{ADDR2=m | ,GVAR2="n" | ,SYMIDX2=o | ,REG2=p | ,UVAR2=q | ,VAL2=r | ,L2=s | ,INDIR2=t | ,OFF2=u[-u] [-u] | ,MSK2=v}!|; }

3. EXPLANATION OF MESSAGE

EA1 = The first part of the comparison will use the determined effective address of the specified field instead of the contents of the specified field.

EA2 = The second part of the comparison will use the determined effective address of the specified field instead of the contents of the specified field.

MATE1 = The specified field used for the first part of the comparison is from the mate memory. The default is active memory.

MATE2 = The specified field used for the second part of the comparison is from the mate memory. The
default is active memory.

a = SM number.

b = Address for the first part of the comparison.

c = Symbolic name of the global variable for the first part of the comparison. The name is entered as a string of up to 15 characters, enclosed in double quotation marks. If the symbol name is greater than 15 characters the symbol index number 'd' must be used to enter this input message using symbolic access. The global variable's symbol index number can be determined by using the DUMP:UT-SYMID input message.

d = Symbol index number of the global variable or function for the first part of the comparison. The symbol index can be determined for this processor by using the DUMP:UT-SYMID input message.

e = Register (address registers A0-A7, data registers D0-D7, program counter PC, or status register SR) for the first part of the comparison.

f = Utility variable for the first part of the comparison. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

g = Constant value for the first part of the comparison.

h = Length of the value (in bytes) to be used for the first part of the comparison. Default is 4 bytes for UVAR, VAL and REG unless REG is the status register which defaults to 2 bytes, and 1 byte for ADDR, GVAR and SYMIDX. Maximum length in bytes is 4. It is suggested that the length and mask values being compared be of the same byte size on each side of the comparison.

i = Level of indirection for the first part of the comparison (maximum of 3, default is 0).

j = The offset, in bytes, at each level of indirection for the first part of the comparison can range from 0-65535 (default is 0). However, offsets greater than 32767 will be treated as negative offsets.

k = Contents of the mask to be "anded" with the final value for the first part of the comparison. Mask operations are always performed with a mask of 0xffffffff unless another mask value is provided.

l = Conditionals used for the comparison (default is EQ). Valid value(s):

- **EQ** = Equal to.
- **GE** = Greater than or equal to.
- **GT** = Greater than.
- **LE** = Less than or equal to.
- **LT** = Less than.
- **NE** = Not equal to.

m = Address for the second part of the comparison.

n = Symbolic name of the global variable for the second part of the comparison. The name is entered as a string of up to 15 characters, enclosed in double quotation marks. If the symbol name is greater than 15 characters the symbol index number 'o' must be used to enter this input message.
using symbolic access. The global variable's symbol index number can be determined by using the DUMP:UT-SYMID input message.

Symbol index number of the global variable or function for the second part of the comparison. The symbol index can be determined for this processor by using the DUMP:UT-SYMID input message.

Register (address registers A0-A7, data registers D0-D7, program counter PC, or status register SR) for the second part of the comparison.

Utility variable for the second part of the comparison. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

Constant value for the second part of the comparison.

Length of the value to be used for the second part of the comparison. Default is 4 bytes for UVAR, VAL and REG unless REG is the status register which defaults to 2 bytes, and 1 byte for ADDR, GVAR and SYMIDX. Maximum length in bytes is 4. It is suggested that the length and mask values being compared be of the same byte size on each side of the comparison.

Level of indirection for the second part of the comparison (maximum of 3, default is 0).

The offset, in bytes, at each level of indirection for the second part of the comparison can range from 0-65535. However, offsets greater than 32767 will be treated as negative offsets.

Contents of the mask to be "anded" with the final value for the second part of the comparison. Mask operations are always performed with a mask of 0xffffffff unless another mask value is provided.

4. SYSTEM RESPONSE

Refer to the APP:UT-IM-REASON appendix in the Appendixes section of the Input Messages manual.

5. REFERENCES

Input Message(s):

ALW:UT-SM
CLR:UT-SM
COFY:UT-SM
DUMP:UT-SM
DUMP:UT-SYMID
ELSE:UT-SM
END:UT-SM
EXC:UT-SM
IF:UT-SM-ENDIF
INH:UT-SM
LOAD:UT-SM
OP:UT-SM
WHEN:UT-SM

Output Message(s):

IF:UT-SM
Input Appendix(es):

- APP: RANGES
- APP: UT-IM-REASON

Other Manual(s):
235-105-110   System Maintenance Requirements and Tools
IF:UT-SM-B

Software Release: 5E16(2) and later
Command Group: SFTUTIL
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Requests that a constant or variable in a switching module’s (SM) memory be compared against another constant or variable in the SM memory. This message may be used together with an ELSE:UT-SM input message.

If the comparison is true, any input messages after the IF input message are performed. If the comparison is false, any input messages after the ELSE input message are performed.

The comparison is based on signed arithmetic. Internally UT always does a signed 4 byte comparison. For lengths less than 4 bytes, each value will be sign extended then "anded" with the mask prior to the completion of the comparison (such as, a val2=h`80,l2=1 causes 4 byte comparison with h`ffffff80 while a val2=h`80,l2=2 causes a 4 byte comparison with h`00000080).

IF statements can be nested. The IF:UT-SM-ENDIF input message is used to signify the end of each IF clause.

This message may be used together with any of the other SM generic utility input messages (refer to the input messages listed in the REFERENCES section).

If this message is used together with other utility messages, the END:UT-SM input message may be used to signal the end of the series of messages.

WARNING: The user is responsible for any effects on system operation that result from the use of this input message. Know the effects of the message before using it.

2. FORMAT

IF:UT:SM=a[,MATE1][,EA1]{,ADDR1=b|,GVAR1="c"|,SYMIDX1=d|...}

...[MSK1=k],l[,MATE2][,EA2]{ADDR2=m|,GVAR2="n"|,SYMIDX2=o|...}

...[REG2=p|,UVAR2=q|,VAL2=r],[,L2=s][,INDIR2=t|,OFF2=u[-u][[-u]]|...]

3. EXPLANATION OF MESSAGE

EA1 = The first part of the comparison will use the determined effective address of the specified field instead of the contents of the specified field.

EA2 = The second part of the comparison will use the determined effective address of the specified field instead of the contents of the specified field.

MATE1 = The specified field used for the first part of the comparison is from the mate memory. The default is active memory.

MATE2 = The specified field used for the second part of the comparison is from the mate memory. The default is active memory.
a = SM number.
b = Address for the first part of the comparison.
c = Symbolic name of the global variable for the first part of the comparison. The name is entered as a string of up to 15 characters, enclosed in double quotation marks. If the symbol name is greater than 15 characters the symbol index number 'd' must be used to enter this input message using symbolic access. The global variable’s symbol index number can be determined by using the DUMP:UT-SYMID input message.
d = Symbol index number of the global variable or function for the first part of the comparison. The symbol index can be determined for this processor by using the DUMP:UT-SYMID input message.
e = Register for the first part of the comparison. Valid value(s):

<table>
<thead>
<tr>
<th>SM Software Configuration:</th>
<th>Registers:</th>
</tr>
</thead>
<tbody>
<tr>
<td>CNFG2KPPC</td>
<td>CR = Condition register.</td>
</tr>
<tr>
<td></td>
<td>CTR = Count register.</td>
</tr>
<tr>
<td></td>
<td>GPR0 = General purpose register.</td>
</tr>
<tr>
<td></td>
<td>GPR2-GPR31 = General purpose registers.</td>
</tr>
<tr>
<td></td>
<td>LR = The link register.</td>
</tr>
<tr>
<td></td>
<td>MSR = Machine state register.</td>
</tr>
<tr>
<td></td>
<td>PC = Program counter.</td>
</tr>
<tr>
<td></td>
<td>SP = General purpose register (also known as GPR1).</td>
</tr>
<tr>
<td></td>
<td>XER = The external interrupt mask register (integer exception).</td>
</tr>
</tbody>
</table>

| Not CNFG2KPPC             | A0-A5 = Address registers. |
|                           | A6 = The frame pointer (FP). |
|                           | A7 = The stack pointer (SP). |
|                           | D0-D7 = Data registers. |
|                           | PC = Program counter. |
|                           | SR = Status register. |

This option can only be used as part of a generic utilities WHEN input message clause.
f = Utility variable for the first part of the comparison. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
g = Constant value for the first part of the comparison.
h = Length of the value (in bytes) to be used for the first part of the comparison. Default is 4 bytes for UVAR, VAL and REG unless REG is the status register which defaults to 2 bytes, and 1 byte for ADDR, GVAR, and SYMIDX. Maximum length in bytes is 4. It is suggested that the length and mask values being compared be of the same byte size on each side of the comparison.
i = Level of indirection for the first part of the comparison (maximum of 3, default is 0).
j = The offset, in bytes, at each level of indirection for the first part of the comparison can range from 0-65535 (default is 0). However, offsets greater than 32767 will be treated as negative offsets.
k = Contents of the mask to be ‘anded’ with the final value for the first part of the comparison. Mask operations are always performed with a mask of 0xffffffff unless another mask value is provided.
l = Conditionals used for the comparison (default is EQ). Valid value(s):
  EQ = Equal to.
  GE = Greater than or equal to.
  GT = Greater than.
  LE = Less than or equal to.
  LT = Less than.
  NE = Not equal to.

m = Address for the second part of the comparison.

n = Symbolic name of the global variable for the second part of the comparison. The name is entered as a string of up to 15 characters, enclosed in double quotation marks. If the symbol name is greater than 15 characters the symbol index number 'o' must be used to enter this input message using symbolic access. The global variable's symbol index number can be determined by using the DUMP:UT-SYMID input message.

o = Symbol index number of the global variable or function for the second part of the comparison. The symbol index can be determined for this processor by using the DUMP:UT-SYMID input message.

p = Register for the second part of the comparison. Valid value(s):

<table>
<thead>
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<th>SM Software Configuration:</th>
<th>Registers:</th>
</tr>
</thead>
<tbody>
<tr>
<td>CNFG2KPPC</td>
<td>GPR0 = General purpose register.</td>
</tr>
<tr>
<td></td>
<td>GPR2–GPR31 = General purpose registers.</td>
</tr>
<tr>
<td></td>
<td>SP = General purpose register (also known as GPR1).</td>
</tr>
<tr>
<td></td>
<td>LR = The link register.</td>
</tr>
<tr>
<td></td>
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</tr>
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<td></td>
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<tr>
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<td>MSR = Machine state register.</td>
</tr>
<tr>
<td></td>
<td>XER = The external interrupt mask register (integer exception).</td>
</tr>
</tbody>
</table>

| Not CNFG2KPPC             | A0–A5 = Address registers. |
|                           | A6 = The frame pointer (FP). |
|                           | A7 = The stack pointer (SP). |
|                           | D0–D7 = Data registers. |
|                           | PC = Program counter. |
|                           | SR = Status register. |

This option can only be used as part of a generic utilities WHEN input message clause.

q = Utility variable for the second part of the comparison. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

r = Constant value for the second part of the comparison.

s = Length of the value to be used for the second part of the comparison. Default is 4 bytes for UVAR, VAL and REG unless REG is the status register which defaults to 2 bytes, and 1 byte for ADDR, GVAR, and SYMIDX. Maximum length in bytes is 4. It is suggested that the length and mask values being compared be of the same byte size on each side of the comparison.

t = Level of indirection for the second part of the comparison (maximum of 3, default is 0).
\[ u = \text{The offset, in bytes, at each level of indirection for the second part of the comparison can range from 0-65535. However, offsets greater than 32767 will be treated as negative offsets.} \]

\[ v = \text{Contents of the mask to be "anded" with the final value for the second part of the comparison. Mask operations are always performed with a mask of 0xffffffff unless another mask value is provided.} \]

4. SYSTEM RESPONSE

Refer to the APP:UT-IM-REASON appendix in the Appendixes section of the Input Messages manual.

5. REFERENCES

Input Message(s):

ALW:UT-SM
CLR:UT-SM
COPY:UT-SM
DUMP:UT-SM
DUMP:UT-SYMID
ELSE:UT-SM
END:UT-SM
EXC:UT-SM
IF:UT-SM-ENDIF
INH:UT-SM
LOAD:UT-SM
OP:UT-SM
WHEN:UT-SM

Output Message(s):

IF:UT-SM

Input Appendix(es):

APP:RANGES
APP:UT-IM-REASON

Other Manual(s):
235-105-110 System Maintenance Requirements and Tools
IF:UT-SM-ENDIF

Software Release: 5E14 and later
Command Group: SFTUTIL
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE
SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Requests that the end of an IF-ELSE statement be signified in the switching module (SM) and must be used
together with the IF:UT-SM input message.

This message may also be used together with any of the other SM generic utility input messages. Refer to the
References section of this message. If this message is used together with any of the other SM generic utility input
messages, the END:UT-SM input message may be used to signal the end of the series of messages.

WARNING: The user is responsible for any effects on system operation that result from the use of this input
message. Know the effects of the message before using it.

2. FORMAT

IF:UT:SM=a,ENDIF{!|;}

3. EXPLANATION OF MESSAGE

a = SM number.

4. SYSTEM RESPONSE

Refer to the APP:UT-IM-REASON appendix in the Appendixes section of the Input Messages manual.

5. REFERENCES

Input Message(s):

ALW:UT-SM
CLR:UT-SM
COPY:UT-SM
DUMP:UT-SM
ELSE:UT-SM
END:UT-SM
EXC:UT-SM
IF:UT-SM
INH:UT-SM
LOAD:UT-SM
OP:UT-SM
WHEN:UT-SM

Output Message(s):

IF:UT-SM-ENDIF
33. IN
IN:DTIME

Software Release: 5E14 and later
Command Group: SFTUTIL
Application: 5,3B
Type: Input

1. PURPOSE

Overrides the administrative module (AM) default generic access package (GRASP) dynamic real-time limit with a specified limit until the specified clock time or the end of the debugging session, whichever occurs first.

2. FORMAT

IN:DTIME=a:UNTIL=b;

3. EXPLANATION OF MESSAGE

  a  = Real time allowed to GRASP, specified in decimal (1-100).

  b  = Clock time when override will expire; specified as a 24-hour clock time (for example, 1535 equals 3:35 p.m.).

4. SYSTEM RESPONSE

  OK  = Good. The request was received and has been processed.

  RL  = Retry later. The system is in an overload condition or completing the previous OP:UMEM message.

  ?A  = Action field or command code contains an error. It may mean that the command code was incorrectly typed or that a field delimiter was omitted. Includes the following:
        - INVALID KEYWORD = Not a valid action in a WHEN action list.

  ?I  = General syntax error, or one of the following errors:
        - RANGE ERROR (DTIME) = Dynamic time value is out of range.
        - RANGE ERROR (UNTIL) = Invalid 24-hour clock time is specified.

5. REFERENCES

Input Message(s):

  OP:UMEM

Output Message(s):

  REPT:GRASP
IN:F-APND

Software Release: 5E14 and later
Command Group: FHADM
Application: 5,3B
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Appends one line of user-supplied text at a specified location in a regular ASCII file. Directory and special device files cannot be edited.

Note: All file editing should proceed from the highest numbered line towards the lowest numbered line; otherwise, multiple edits could cause errors.

WARNING: Insertion of incorrect data may make the file unusable.

2. FORMAT

IN:FILE,APND,FN="a",LINE=b!
"c";

3. EXPLANATION OF MESSAGE

a = Full pathname that specifies the file. Upon successful completion of the edit, a file called a.bk, where 'a' is the file name entered, will contain the data in file 'a' prior to the edit. Should the edit be unsuccessful, the a.bk file will either contain the same data as the original file, or it will not exist.

b = Number of the line at which the input is to be appended. If the line number specified is larger or smaller than the number of lines in the file, the new line will be appended at the end of the file. Entering zero as the line number will insert the line of text before the first line of the file. If the file does not exist, entering zero in the line number will create the file.

c = User-supplied text. Entered on a separate line after entering the continuation character and receiving the acknowledgement 'IP'. The maximum length is 511 characters.

The text must be enclosed in quotation marks, otherwise data may be lost and misleading error messages printed.

4. SYSTEM RESPONSE

IP = In progress. The request was received and has been initiated.
PF = Printout follows. Followed by the IN:F-APND output message.

5. REFERENCES
Output Message(s):

IN:F-APND
IN:F-DEL

Software Release: 5E14 and later
Command Group: FHADM
Application: 5,3B
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Deletes one or more lines from a regular ASCII file. Directory files and special device files cannot be edited.

Note: All file editing should proceed from the highest numbered line towards the lowest numbered line; otherwise multiple edits could cause errors.

WARNING: All existing data in the targeted lines of the file will be destroyed.

2. FORMAT

IN:FILE,DEL,FN="a",LINE=b[&c];

3. EXPLANATION OF MESSAGE

a = Full pathname of the file. Upon successful completion of the edit, a file called 'a.bk', where 'a' is the filename entered, will contain the data in file 'a' prior to the edit. Should the edit be unsuccessful, the 'a.bk' file will either contain the same data as the original file, or it will not exist.

b = Number of the first (or only) line to be deleted. If the line number specified is larger than the number of lines in the file, the last line of the file is assumed.

c = Last line number of a range of lines to be deleted. If the line number specified is out of the range, the last line of the file is assumed.

4. SYSTEM RESPONSE

PF = Printout follows. Followed by the IN:F-DEL output message.

5. REFERENCES

Input Message(s):

DUMP:F-ALL
DUMP:F-PARTL
IN:F-APND
IN:F-REPL

Output Message(s):
DUMP: F–ALL
DUMP: F–PARTL
IN: F–APND
IN: F–DEL
IN: F–REPL

Other Manual(s):
235-105-210  Routine Operations and Maintenance

MCC Display Page(s):
(CRAFT FM 01)
IN:F-REPL

Software Release: 5E14 and later
Command Group: FHADM
Application: 5,3B
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Replaces one or more lines of a regular ASCII file with one line of user-supplied text. Directory files and special device files cannot be edited.

Note: All file editing should proceed from the highest numbered line towards the lowest numbered line; otherwise, multiple edits could cause errors.

WARNING: All existing data in the targeted lines of the file will be destroyed. Insertion of incorrect data may make the file unusable.

2. FORMAT

IN:FILE,REPL,FN="a",LINE=b[&c]!"d";

3. EXPLANATION OF MESSAGE

a = Full pathname of the file. Upon successful completion of the edit, a file called a.bk, where 'a' is the file name entered, will contain the data in file 'a' prior to the edit. Should the edit be unsuccessful, the a.bk file will either contain the same data as the original file, or it will not exist.

b = First or only line number of the lines to be replaced. If the line number specified is out of the range, the last line in the file will be replaced by the line "d".

C = Last line number of a range of lines to be replaced. If out of range, the last line of the file is assumed.

d = User-supplied text. Entered on a separate line after entering the continuation character and receiving the acknowledgement 'IP'. Terminated by the execution character. Maximum length is 511 characters.

The text must be enclosed in quotation marks; otherwise, data may be lost and misleading error messages printed.

4. SYSTEM RESPONSE

IP = In progress. The request was received and has been initiated.

PF = Printout follows. Followed by the IN:F-REPL output message.
5. REFERENCES

Input Message(s):

DUMP:F-ALL
DUMP:F-PARTL
IN:F-APND
IN:F-DEL

Output Message(s):

DUMP:F-ALL
DUMP:F-PARTL
IN:F-APND
IN:F-DEL
IN:F-REPL

Other Manual(s):
235-105-210  Routine Operations and Maintenance
IN:FSYS-DIR

Software Release: 5E14 and later
Command Group: FHADM
Application: 5,3B
Type: Input

1. PURPOSE

Creates a specified directory with read, write, and execute permissions for the owner, group and others (mode 777).

2. FORMAT

IN:FILESYS,DIR,FN="a";

3. EXPLANATION OF MESSAGE

a = Full pathname of the directory to be created.

4. SYSTEM RESPONSE

PF = Printout follows. Followed by the IN:FSYS-DIR output message.

5. REFERENCES

Input Message(s):

CLR:FSYS-DIR
CLR:FSYS-FILE

Output Message(s):

IN:FSYS-DIR

Other Manual(s):
235-105-210  Routine Operations and Maintenance

MCC Display Page(s):

(CRAFT FM 01)
IN:OFR-PARM

Software Release: 5E14 and later
Command Group: RCV
Application: 5
Type: Input

1. PURPOSE

Inputs all internal operating and scheduling parameters of the online office records control process. These parameters affect the print requests of the OP:OFR input messages.

2. FORMAT

IN:OFR:PARM[,HR=a][,LNG=b][,ONDAY=c][,OFFDAY=d][,ENAB=e];

3. EXPLANATION OF MESSAGE

a = Hour at which printing of automatically generated changed pages or delayed requests begin.

b = Length of time (in hours) that may be used at one time to print automatically generated changed pages or delayed requests.

c = Days on which automatic printing of changed pages may occur (MON, TUE, WED, THU, or FRI).

If more than one day is specified, a list format should be used. Example: ONDAY=MON-TUE-WED

d = Days on which automatic printing of changed pages may not occur.

If more than one day is specified, a list format should be used.

e = Changed page recording enable flag (YES or NO).

4. SYSTEM RESPONSE

IP = In progress. Followed by an OP:OFR-STATUS or an IN:OFR-PARM output message.

5. REFERENCES

Input Message(s):

OP:OFR-CAT
OP:OFR-FORM
OP:OFR-STATUS

Output Message(s):

IN:OFR-PARM
OP:OFR-STATUS
IN:REMOTE-REPT

Software Release: 5E14 and later
Command Group: SFTMGT
Application: 5,3B
Type: Input

1. PURPOSE
Requests a report about the current status of the active file receiving process.

2. FORMAT
IN:REMOTE,REPT;

3. EXPLANATION OF MESSAGE
No variables.

4. SYSTEM RESPONSE
PF = Printout follows. The message was successfully invoked.
RL = Retry later. Valid value(s):
   - BAD MEMORY ALLOCATION = Request cannot be executed due to insufficient memory.

5. REFERENCES
Input Message(s):
   IN:REMOTE-START
   IN:REMOTE-STOP

Output Message(s):
   IN:REMOTE
   IN:REMOTE-ERROR
   IN:REMOTE-INIT
   IN:REMOTE-START
   IN:REMOTE-STOP
   UPD:CLR
   UPD:VFY
IN:REMOTE-START

Software Release: 5E14 and later
Command Group: SFTMGT
Application: 5,3B
Type: Input

1. PURPOSE

Requests that the administrative module (AM) be put in the remote-file-receive mode. This message should be entered immediately before ordering delivery of software update files from the Software Change Administration and Notification System (SCANS-2), so that the transaction ID displayed in the IN REMOTE output message can be supplied in the order to SCANS-2. Software updates must begin to arrive at the administrative module within 24 hours. Response messages are printed when they are initially received or when this time limit is reached.

2. FORMAT

IN:REMOTE,START[,BSDIR="a"][,BLOCKS=b][,VLEV=c];

3. EXPLANATION OF MESSAGE

a = Full pathname of the base directory into which the received files are stored. Default= /etc/bwm.
b = Number of blocks. The base directory is checked to ensure that at least 'b' blocks of space are available. Default= 100.
c = Verbose level (0-546048). The only value of 'c' that has any effect is 1, which prints the version number of the file receive process. Default= 0.

4. SYSTEM RESPONSE

PF = Printout follows. The message has been successfully invoked. Followed by the IN:REMOTE-INIT output message.

RL = Retry later. Valid value(s):
- BAD MEMORY ALLOCATION = Request cannot be executed due to insufficient memory.

5. REFERENCES

Input Message(s):

IN:REMOTE-REPT
IN:REMOTE-STOP

Output Message(s):

IN:REMOTE
IN:REMOTE-ERROR
IN:REMOTE-INIT
IN:REMOTE-START
IN:REMOTE-STOP
IN:REMOTE-STOP

Software Release: 5E14 and later
Command Group: SFTMGT
Application: 5,3B
Type: Input

1. PURPOSE

Requests that the input of update files be terminated from a remote source. If file transmission has begun, a
session-disconnect message is sent to the remote end to notify the Software Change Administration and Notification
System (SCANS-2) of the termination.

2. FORMAT

IN:REMOTE,STOP;

3. EXPLANATION OF MESSAGE

No variables.

4. SYSTEM RESPONSE

PF = Printout follows. The message has been successfully invoked. Followed by the
IN:REMOTE-STOP or the IN:REMOTE-ERROR output message.

RL = Retry later. Valid value(s):
- BAD MEMORY ALLOCATION = Request cannot be executed now due to insufficient memory.

5. REFERENCES

Input Message(s):

IN:REMOTE-REPT
IN:REMOTE-START

Output Message(s):

IN:REMOTE
IN:REMOTE-ERROR
IN:REMOTE-INIT
IN:REMOTE-START
IN:REMOTE-STOP
UPD:CLR
UPD:VFY
IN:XFER

Software Release: 5E14 and later
Command Group: N/A
Application: 5
Type: Input

1. PURPOSE

Requests that the remote file transfer system be started, stopped or status be reported. The remote file transfer system resides in the administrative module (AM). When this system is running, files may be transferred between it and a special support computer. This system may be used to recover files that have been lost or corrupted.

2. FORMAT

IN:XFER:{START|STOP|REPT};

3. EXPLANATION OF MESSAGE

START = Start the remote file transfer system. Once started, the system is active for one transaction, 24 hours, or until stopped, whichever occurs first.

STOP = Stop the remote file transfer system.

REPT = Report on the state of the remote file transfer system.

4. SYSTEM RESPONSE

NG = No good. Valid value(s):
- NOT ACTIVATED = System is not running.
- PREVIOUS PASSWORD HAS EXPIRED = System was previously started but the 24-hour time limit expired without an attempt to use it.

OK = Good. System has been stopped. Valid value(s):
- PASSWD = a = System has been started. Report the password 'a' to the support person who requested this input message be entered.
- PASSWD = b, EXPIRES c = System is running. Report the password 'b' and the expiration time 'c' to the support person who requested this input message be entered.

PF = Printout follows. Followed by the IN:XFER output message.

5. REFERENCES

Output Message(s):

IN:XFER
34. INH
INH:ACSR

Software Release: 5E14 and later
Command Group: RCV
Application: 5
Type: Input

1. PURPOSE
Requests that automatic customer station rearrangement (ACSR) requests not be added nor deleted from the ACSR queue.

2. FORMAT
INH:ACSR, {ENQ|DEQ|ALL} ;

3. EXPLANATION OF MESSAGE

<table>
<thead>
<tr>
<th></th>
<th>= Inhibit adding (enqueueing) of ACSR requests.</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENQ</td>
<td>= Inhibit deleting (dequeueing) of ACSR requests.</td>
</tr>
<tr>
<td>DEQ</td>
<td>= Inhibit adding and deleting of ACSR requests.</td>
</tr>
<tr>
<td>ALL</td>
<td></td>
</tr>
</tbody>
</table>

4. SYSTEM RESPONSE

OK = Good. ACSR enqueueing or dequeueing inhibit request was received.

5. REFERENCES

Input Message(s):

ALW:ACSR
OP:STAT

Output Message(s):

OP:STAT
INH:ALE-A

Software Release: 5E14 - 5E15
Command Group: TRKLN
Application: 5
Type: Input

1. PURPOSE

Requests inhibition of the options utilized for the operation of the automatic line evaluation (ALE) system and protocol error record (PER) reporting and generation. Refer to the Protocol Error Record Descriptions manual for additional information about a specific PER.

The parameters are grouped into three classes.
A = Automatic ALE session output controls

The parameters LEVEL2, PRINT, and PER=REPT allow the controls used for generating output information for the automatically requested ALE sessions. These options determine which counts are to be used for the session and where the output is to be directed. These controls have no bearing on the output of information due to a manually requested ALE session.

The default values for these options are restored on an administrative module (AM) full initialization. No other type of initialization will change the requested settings.

B = Switching module (SM) controls

The SM parameters control the behavior of the level 1 performance monitoring and PER generation.

If the level 1 parameter is inhibited, then level 1 performance monitoring is not active for any U-interface digital subscriber lines (DSLs) on the SM. If allowed, then level 1 performance monitoring status for a U-interface DSL is determined by the level 1 performance monitoring group assigned to the DSL.

All automatically generated reports are inhibited immediately. The actual counting of level 1 errored seconds, severely errored seconds, and cyclic redundancy check (CRC) block errors (BE), may not be inhibited for a period of up to 5 minutes.

If the PER generation parameter is inhibited, then no PERs will be recorded for any integrated services digital network (ISDN) protocol channels on the SM. If the parameter is allowed, then the PER generation parameter for the individual ISDN protocol channel determines if PERs are recorded for that channel.

C = Line/trunk controls

Line/trunk ALE controls consist of a set of level 1 parameters and the PER generation parameter. The level 1 parameters only apply to U-interface DSLs. The PER generation parameter applies to all ISDN protocol channels whether supported on lines or trunks.

The level 1 control parameters for U-interface DSLs are manipulated using the RC/V Views 8.1 and 22.15 for performance monitoring group definitions.

If the PER generation inhibit is active, then no PERs will be recorded for the ISDN protocol channel.

Format 1 is used to inhibit the automatic session controls. Format 2 is used to inhibit the SM control parameters. Format 3 is used to inhibit the PER generation for a ISDN protocol channel.
For example, the input message

INH:ALE,LEVEL2,PER=REPT,PRINT

will inhibit the LEVEL2, PER=REPT, and PRINT controls prohibiting the execution of the LEVEL2 and PER jobs for automatically initiated ALE sessions. In addition, this message requests that the results from the automatic session not be printed on the receive-only printer (ROP).

For example, the input message

INH:ALE,PER=GEN,SM=7

will inhibit the PER generation control that enables the collection of PERs on SM 7.

The input message

INH:ALE,PER=GEN,DN=2204000

will inhibit the PER generation control that enables the collection of PERs for the D-channel associated with the DSL for DN 2204000.

2. FORMAT

[1] INH:ALE[,LEVEL2][,PRINT][,PER=REPT];
[2] INH:ALE,SM=a[&&b][,LEVEL1][,PER=GEN];
[3] INH:ALE,c[,CH=a1],PER=GEN;

3. EXPLANATION OF MESSAGE

Refer to the Acronym section of the Input Messages manual for the full expansion of acronyms shown in the format.

LEVEL1 = Inhibit level 1 performance monitoring for the indicated SM. The default is level 1 allowed.

LEVEL2 = Inhibit level 2 error counts. These counters exist in the protocol handler (PH). Inhibiting level 2 automatic ALE will prevent packet error counts and automatically reset the counters. The default is level 2 allowed.

PER=GEN = Inhibit PER generation for the indicated SM or channel. The default is that PER generation is allowed for the indicated SM or channel.

PER=REPT = Inhibit PER reporting for the automatically requested ALE sessions. The default is that PER reporting is allowed. Set the specified protocol error record (PER) parameters.

PRINT = Send output to the ROP. All other output will be sent to the message class PRFMMON. The default is ROP output allowed.

a = SM number, or the lower limit of a range of SM numbers. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

b = The upper limit of a range of SM numbers. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

c = Line identification. Valid value(s):
   AIUEN=f−m1−n1−o1
BST=\textit{d-e}\hfill
DEN=\textit{f-g-h-i}\hfill
DN=\textit{j}\hfill
DNUSEOC=\textit{f-h^1-r-s}\hfill
DNUSTMC=\textit{f-h^1-r-s}\hfill
DSLGM=\textit{f-b^1-k-l}\hfill
IDCUEOC=\textit{f-z-r-s}\hfill
IDCUTMC=\textit{f-z-r-s}\hfill
ILEN=\textit{f-z-r-t}\hfill
INEN=\textit{f-h^1-r-t}\hfill
LCEN=\textit{f-m-n-o}\hfill
LCKEN=\textit{f-e^1-r-f^1-g^1}\hfill
MLHG=p-q\hfill
NEN=\textit{f-h^1-i^1-p^1-j^1-k^1-q^1-1^1}\hfill
OAPO=d\hfill
OPT=d-e\hfill
PKTDN=j\hfill
PLTEN=\textit{f-r^1-s^1-t^1-u^1}\hfill
PSUEN=\textit{f-b^1-c^1-d^1-l}\hfill
PORT=\textit{f-u}\hfill
RTRS=v-w\hfill
TKGMN=x-y\hfill
VBRI=\textit{f-v^1}\hfill
VTRK=\textit{f-w^1-x^1}\hfill

d \quad \text{= Operator service center number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.}\hfill
e \quad \text{= Relative position number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.}\hfill
f \quad \text{= Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.}\hfill
g \quad \text{= Digital line and trunk unit (DLTU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.}\hfill
h \quad \text{= Digital facility interface number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.}\hfill
i \quad \text{= Digital channel number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.}\hfill
j \quad \text{= The directory number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual. This parameter can only be used to identify channels associated with DSLs.}\hfill
k \quad \text{= Protocol handler (PH) channel group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.}\hfill
l \quad \text{= PH channel group member number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.}\hfill
m \quad \text{= Integrated services line unit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.}\hfill
section of the Input Messages manual.

n = Line group controller number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

o = Line card number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

p = Multi-line hunt group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

q = Multi-line hunt group member number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

r = Remote terminal (RT) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

s = Primary/protection identifier. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

t = RT line number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

u = Logical port number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

v = Data link (group) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

w = Relative link (member) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

x = Trunk group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

y = Trunk group member number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

z = Integrated digital carrier unit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

a¹ = Channel type to be inhibited (valid only for LCEN and LCKEN line identifications). Valid value(s):
     B1 = Channel B1.
     D = D-channel (default).

b¹ = Packet switching unit (PSU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

c¹ = PSU shelf number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

d¹ = PSU channel group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
Integrated service line unit 2 (ISLU2) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

Line board number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

Line circuit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

Digital networking unit - synchronous optical network (SONET) (DNU-S) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

Data group (DG) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

Synchronous transport signal (STS) facility number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

Virtual tributary group (VTG) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

Digital signal level 0 (DS0) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

Access interface unit (AIU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

AIU pack number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

AIU circuit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

SONET termination equipment (STE) facility number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

Virtual tributary member (VTM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

Peripheral control and timing (PCT) line and trunk unit (PLTU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

PCT facility interface (PCTFI) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

Tributary number (T1FAC). Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

Channel number (CHAN). Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

Virtual BRI line number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

Virtual trunk facility number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
Virtual trunk channel number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

**NG**

= No good. This message was not recognized, or was not acceptable. May also include:
- **ALE FEATURE NOT LOADED** = The ALE feature is not loaded in the switch software configuration.
- **COMMUNICATION FAILURE** = A system error has occurred.
- **INVALID INPUT** = Parameter to inhibit does not match entity to inhibit. Refer to the TECHNICAL ASSISTANCE portion of the INTRODUCTION section of the Input Messages manual.
- **PROCESS CREATION FAILURE** = A system error has occurred. Refer to the TECHNICAL ASSISTANCE portion of the INTRODUCTION section of the Input Messages manual.

**OK**

= Good. Requested parameter has been allowed.

**PF**

= Printout follows. Requested parameter inhibit has been initiated and an INH:ALE message will follow.

**RL**

= Retry later. May also include:
- **AM IN MIN MODE** = The AM is in minimum operation mode.
- **REQUEST ALREADY IN PROGRESS** = An ALE allow request is already running. Only one inhibit request is permitted at a time.

5. REFERENCES

Input Message(s):

```
ALW:ALE
EXC:ALE
OP:ALE
```

Output Message(s):

```
ALW:ALE
EXC:ALE
INH:ALE
OP:ALE
```

Input Appendix(es):

```
APP:RANGES
```

Other Manual(s):

<table>
<thead>
<tr>
<th>Manual ID</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>235-105-110</td>
<td>System Maintenance Requirements and Tools</td>
</tr>
<tr>
<td>235-105-220</td>
<td>Corrective Maintenance</td>
</tr>
</tbody>
</table>
235-600-755  Protocol Error Record Descriptions

RC/V View(s):
8.1  OFFICE PARAMETERS (MISCELLANEOUS)
22.15  PERFORMANCE MONITORING THRESHOLD GROUP
1. PURPOSE

Requests inhibition of the options utilized for the operation of the automatic line evaluation (ALE) system and protocol error record (PER) reporting and generation. Refer to the Protocol Error Record Descriptions manual for additional information about a specific PER.

The parameters are grouped into three classes.

<table>
<thead>
<tr>
<th>Class</th>
<th>Definition</th>
</tr>
</thead>
<tbody>
<tr>
<td>Automatic ALE session output controls</td>
<td>The parameters LEVEL2, PRINT, and PER=REPT allow the controls used for generating output information for the automatically requested ALE sessions. These options determine which counts are to be used for the session and where the output is to be directed. These controls have no bearing on the output of information due to a manually requested ALE session. The default values for these options are restored on an administrative module (AM) full initialization. No other type of initialization will change the requested settings.</td>
</tr>
<tr>
<td>Switching module (SM) controls</td>
<td>The SM parameters control the behavior of the level 1 performance monitoring and PER generation. If the level 1 parameter is inhibited, then level 1 performance monitoring is not active for any U-interface digital subscriber lines (DSLs) on the SM. If allowed, then level 1 performance monitoring status for a U-interface DSL is determined by the level 1 performance monitoring group assigned to the DSL. All automatically generated reports are inhibited immediately. The actual counting of level 1 errored seconds, severely errored seconds, and cyclic redundancy check (CRC) block errors (BE), may not be inhibited for a period of up to 5 minutes. If the PER generation parameter is inhibited, then no PERs will be recorded for any integrated services digital network (ISDN) protocol channels on the SM. If the parameter is allowed, then the PER generation parameter for the individual ISDN protocol channel determines if PERs are recorded for that channel. After the introduction of PCF on PHE2 feature, the PER generation parameter applies to the PCF PH as well.</td>
</tr>
</tbody>
</table>
| Line/trunk controls | Line/trunk ALE controls consist of a set of level 1 parameters and the PER generation parameter. The level 1 parameters only apply to U-interface DSLs. The PER generation parameter applies to all ISDN protocol channels whether supported on lines or trunks. After the introduction of PCF on PHE2 feature, the PER generation parameter applies to the PCF PH as well. The level 1 control parameters for U-interface DSLs are manipulated using the RC/V...
Views 8.1 and 22.15 for performance monitoring group definitions.

If the PER generation inhibit is active, then no PERs will be recorded for the ISDN protocol channel.

| INH:ALE, LEVEL2, PER=REPT, PRINT | Will inhibit the LEVEL2, PER=REPT, and PRINT controls prohibiting the execution of the LEVEL2 and PER jobs for automatically initiated ALE sessions. In addition, this message requests that the results from the automatic session not be printed on the ROP. |
| INH:ALE, PER=GEN, SM=7 | Will inhibit the PER generation control that enables the collection of PERs on SM 7, for both ISDN channels and PCF PH. |
| INH:ALE, PER=GEN, DN=2204000 | Will inhibit the PER generation control that enables the collection of PERs for the D-channel associated with the DSL for DN 2204000. |
| INH:ALE, PER=GEN, PCFIP=193.192.193.193 | Will inhibit the PER generation control that enables the collection of PERs for the PCF PH associated with the IP address 193.192.193.193. |

2. FORMAT

[1] INH:ALE{[,LEVEL2][,PRINT][,PER=REPT]};

[2] INH:ALE, SM=a{&&b}{[,LEVEL1][,PER=GEN]};

[3] INH:ALE, c{[,CH=a^1],PER=GEN};

[4] INH:ALE, PCFIP=y^1-y^1-y^1-y^1,PER=GEN;

3. EXPLANATION OF MESSAGE

Refer to the Acronym section of the Input Messages manual for the full expansion of acronyms shown in the format.

LEVEL1 = Inhibit level 1 performance monitoring for the indicated SM. The default is level 1 allowed.

LEVEL2 = Inhibit level 2 error counts. These counters exist in the protocol handler (PH). Inhibiting level 2 automatic ALE will prevent packet error counts and automatically reset the counters. The default is level 2 allowed.

PER=GEN = Inhibit PER generation for the indicated SM or channel. The default is that PER generation is allowed for the indicated SM or channel.

PER=REPT = Inhibit PER reporting for the automatically requested ALE sessions. The default is that PER reporting is allowed. Set the specified protocol error record (PER) parameters.

PRINT = Send output to the ROP. All other output will be sent to the message class PRFMMON. The default is ROP output allowed.

a = SM number, or the lower limit of a range of SM numbers. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

b = The upper limit of a range of SM numbers. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

c = Line identification. Valid value(s):

AIUEN=f^1-m^1-n^1-o^1
d = Operator service center number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

e = Relative position number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

f = Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

g = Digital line and trunk unit (DLTU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

h = Digital facility interface number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

i = Digital channel number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

j = The directory number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual. This parameter can only be used to identify channels associated with DSLs.

k = Protocol handler (PH) channel group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

l = PH channel group member number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

m = Integrated services line unit number. Refer to the APP:RANGES appendix in the Appendixes
section of the Input Messages manual.

n = Line group controller number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

o = Line card number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

p = Multi-line hunt group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

q = Multi-line hunt group member number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

r = Remote terminal (RT) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

s = Primary/protection identifier. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

t = RT line number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

u = Logical port number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

v = Data link (group) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

w = Relative link (member) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

x = Trunk group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

y = Trunk group member number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

z = Integrated digital carrier unit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

a1 = Channel type to be inhibited (valid only for LCEN and LCKEN line identifications). Valid value(s):
   B1 = Channel B1.
   D = D-channel (default).

b1 = Packet switching unit (PSU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

c1 = PSU shelf number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

d1 = PSU channel group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
e\(^1\) = Integrated service line unit 2 (ISLU2) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

f\(^1\) = Line board number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

g\(^1\) = Line circuit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

h\(^1\) = Digital networking unit - synchronous optical network (SONET) (DNU-S) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

i\(^1\) = Data group (DG) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

j\(^1\) = Synchronous transport signal (STS) facility number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

k\(^1\) = Virtual tributary group (VTG) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

l\(^1\) = Digital signal level 0 (DS0) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

m\(^1\) = Access interface unit (AIU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

n\(^1\) = AIU pack number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

o\(^1\) = AIU circuit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

p\(^1\) = SONET termination equipment (STE) facility number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

q\(^1\) = Virtual tributary member (VTM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

r\(^1\) = Peripheral control and timing (PCT) line and trunk unit (PLTU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

s\(^1\) = PCT facility interface (PCTFI) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

t\(^1\) = Tributary number (T1FAC). Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

u\(^1\) = Channel number (CHAN). Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

v\(^1\) = Virtual BRI line number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

w\(^1\) = Virtual trunk facility number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
Virtual trunk channel number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

IP address field. Valid value is 0-255.

Optical interface unit (OIU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

Protection group (PG) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

Optical carrier level 3 (OC3) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

Synchronous transport signal level 1 (STS1) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

NG = No good. This message was not recognized, or was not acceptable. May also include:
- ALE FEATURE NOT LOADED = The ALE feature is not loaded in the switch software configuration.
- COMMUNICATION FAILURE = A system error has occurred.
- INVALID INPUT = Parameter to inhibit does not match entity to inhibit. Refer to the TECHNICAL ASSISTANCE portion of the INTRODUCTION section of the Input Messages manual.
- PROCESS CREATION FAILURE = A system error has occurred. Refer to the TECHNICAL ASSISTANCE portion of the INTRODUCTION section of the Input Messages manual.

OK = Good. Requested parameter has been allowed.

PF = Printout follows. Requested parameter inhibit has been initiated and an INH:ALE message will follow.

RL = Retry later. May also include:
- AM IN MIN MODE = The AM is in minimum operation mode.
- REQUEST ALREADY IN PROGRESS = An ALE allow request is already running. Only one inhibit request is permitted at a time.

5. REFERENCES

Input Message(s):

ALW:ALE
EXC:ALE
OP:ALE

Output Message(s):
INH:ALM

Software Release: 5E14 and later
Command Group: ALARM
Application: 5
Type: Input

1. PURPOSE

Requests that alarm reporting on a scan point be inhibited, according to type. Formats 1 and 2 are for alarms assigned to input/output processor (IOP) scan points. Format 3 is for those assigned to remote switching module (RSM), optical remote module (ORM), or two-mile remote module (TRM) metallic service unit (MSU) scan points and is available only in a multimodule RSM, ORM or TRM that has the alarm input option. Format 4 is for alarms assigned to remote alarm section (RAS) scan points. Format 5 is for alarms assigned to expansion access interface unit (EAIU) scan points.

2. FORMAT

[1] INH:ALM, {BPSC=a|MFFUSE=b|MISC=c};
[3] INH:ALM, RBPSC=d, SM=e;
[4] INH:ALM, RAS, SCPT=f, SITE=g;
[5] INH:ALM, EAIU=e-h, SCPT=f;

3. EXPLANATION OF MESSAGE

ESM = External sanity monitor.

SCPT = Scan point.

a = Building/power scan point (BPSC) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

b = Miscellaneous frame fuse (MFFUSE) unit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

c = Miscellaneous (MISC) IOP scan point number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

d = Remote building/power scan point (RBPSC) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

e = Switching module (SM) number.

f = Scan point number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

g = Remote peripheral site number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

h = EAIU unit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
4. SYSTEM RESPONSE

NG = No good. Invalid scan point, SM, or site number; or option not available.

PF = Printout follows. Followed by the INH:ALM output message.

RL = Retry later. Unable to process request or unable to communicate with SM.

5. REFERENCES

Input Message(s):

ALW:ALM

Output Message(s):

ALW:ALM
INH:ALM
REPT:ALM

Input Appendix(es):

APP:RANGES

Other Manual(s):

235-105-220  Corrective Maintenance

MCC Display Page(s):

105/106 (BLDG/POWER & ALARM CNTRLs)
119 (MISCELLANEOUSALARMS)
1400 (RSM BLDG/PWR ALARMS)
1420 (RAS ALARMS)
1640 (REMOTE PERPH MISC ALARMS)
INH:AMA-AUTOST
Software Release: 5E14 and later
Command Group: AMA
Application: 5
Type: Input

1. PURPOSE
Requests that automatic message accounting (AMA) automatic tape writing sessions be inhibited.

2. FORMAT
INH:AMA:AUTOST[,ST1|,ST2];

3. EXPLANATION OF MESSAGE

ST1 = Used if AMA data goes to the ST1 data stream.
ST2 = Used if AMA data goes to the ST2 data stream.
Note: For a single data stream office, the stream does not have to be specified as either an ST1 or ST2. However, for a dual stream office, the stream must be specified as either an ST1 or ST2.

4. SYSTEM RESPONSE

IP = In progress. Request accepted and in progress. The AMA monitor process has been called to manually block automatic AMA tape writing sessions. When the request is complete, the contents of the AMA control file will be output.
NG = No good. Data stream checks failed.
RL = Retry later. A message could not be sent to the AMA monitor process.

5. REFERENCES

Input Message(s):

ALW:AMA-AUTOST
OP:AMA-CONTROLF
OP:AMA-STREAM

Output Message(s):

REPT:AMA-CONT
**INH:AMA-SESSION**
- **Software Release:** 5E14 and later
- **Command Group:** AMA
- **Application:** 5
- **Type:** Input

**1. PURPOSE**
Requests that all automatic message accounting (AMA) sessions be inhibited or the writing of AMA tapes be prevented.

**2. FORMAT**

```
INH:AMA:SESSION[,ST1|,ST2];
```

**3. EXPLANATION OF MESSAGE**

- **ST1** = Used if AMA data goes to the ST1 data stream.
- **ST2** = Used if AMA data goes to the ST2 data stream.

**Note:** For a single data stream office, the stream does not have to be specified as either an ST1 or ST2. However, for a dual stream office, the stream must be specified as either an ST1 or ST2.

**4. SYSTEM RESPONSE**

- **IP** = In progress. Request is in progress. All AMA teleprocessing sessions will be rejected if the teleprocessing option is in effect. No AMA tapes will be written or verified if the tape option is in effect. When the request is complete, the contents of the AMA control file will be output.

- **NG** = No good. Data stream checks failed.

- **RL** = Retry later. The AMA monitor process could not be invoked to process the request.

**5. REFERENCES**

Input Message(s):

- ALW:AMA-SESSION
- OP:AMA-CONTROLF
- OP:AMA-STREAM

Output Message(s):

- REPT:AMA-CONT
INH:AMAIRR
Software Release: 5E14 and later
Command Group: AMA
Application: 5
Type: Input

1. PURPOSE
Inhibits the printing of data related to an automatic message accounting irregularity (AMAIRR).

2. FORMAT
INH:AMAIRR;

3. EXPLANATION OF MESSAGE
No variables.

4. SYSTEM RESPONSE
OK = Good. The request has been received. No subsequent reports will be generated for automatic message accounting irregularities.

5. REFERENCES
Input Message(s):
   ALW:AMAIRR

Output Message(s):
   REPT:AMAIRR
INH:AMALOST

Software Release: 5E14 and later
Command Group: AMA
Application: 5
Type: Input

1. PURPOSE
Requests that the printing of data related to lost automatic message accounting (AMALOST) records be stopped.

2. FORMAT
INH:AMALOST;

3. EXPLANATION OF MESSAGE
No variables.

4. SYSTEM RESPONSE
OK = Good. The request has been received. All subsequent occurrences of lost AMA records will not print an information report (REPT:AMALOST).

5. REFERENCES
Input Message(s):
   ALW:AMALOST

Output Message(s):
   REPT:AMALOST
   REPT:AMATRC

Other Manual(s):
235-190-101 Business and Residence Modular Features
INH:AMATRC

Software Release: 5E14 and later
Command Group: AMA
Application: 5
Type: Input

1. PURPOSE

Format 1 requests that the printing of automatic message accounting (AMA) records be inhibited for a matching active trace directory number (DN) (that is, DN and PS option are equal).

Format 2 requests that the printing of AMA records be inhibited for all existing trace DN(s).

Format 3 requests that the printing of AMA records no longer go to the AMTRCLOG log file. This applies to all existing trace DN(s).

2. FORMAT

[1] INH:AMATRC:DN=a[,PS];

3. EXPLANATION OF MESSAGE

Note: Refer to the Acronym section of the Input Messages manual for the full expansion of acronyms shown in the format.

ALL = Inhibit tracing on all DN(s) previously entered for tracing.
FILE = Requests that AMATRC output no longer be placed in the AMATRC Log File.
a = A seven- or ten-digit directory number.

4. SYSTEM RESPONSE

NG = No good. May also include:
- INVALID DIGIT ENTERED = Only digits, no alpha or special characters are accepted.
- NO EXISTING DN ENTRIES = There are currently no existing DNs for which an AMATRC is currently being performed.
- NO MATCH FOUND = DN entered did not match any existing DN for which an AMATRC is currently being performed. OP:AMATRC will show all existing DN(s).
- SEVEN OR TEN DIGITS REQUIRED = Either seven or ten digits are required to perform the trace.

OK = Good. The request has been received.

5. REFERENCES
Input Message(s):

ALW: AMATRC
OP: AMATRC

Output Message(s):

REPT: AMATRC
OP: AMATRC

Other Manual(s):
235-190-300  Billing Features and Specifications
INH: AUD-CMP

Software Release: 5E14 and later
Command Group: AUDIT
Application: 5
Type: Input

1. PURPOSE

Requests that the automatic execution of an audit or the routine execution of the audit cycle be inhibited in one communication module processor (CMP).

The inhibition of the audit cycle is phase protected. Once the audit cycle has been inhibited, it will remain inhibited even through system phases. An individual audit inhibit is not phase protected and can only be set after the processor is cycling normally. A high level initialization will have the effect of allowing a previously inhibited audit to run.

2. FORMAT

INH: AUD[a], CMP=b;

3. EXPLANATION OF MESSAGE

a = Item to be audited. Valid value(s):
   Audit ID
   CYCLE = Inhibit the routine execution of the audit cycle. (Default)

b = CMP number (such as, 0).

4. SYSTEM RESPONSE

NG = No good. May also include:
   - AUDIT NOT AVAILABLE IN CMP = The request has been denied because the audit specified in the 'a' variable does not exist in the CMP.
   - INVALID CMP = No good. The specified CMP does not exist.

OK = Good. The request has been received and completed. Audit or cycle has been inhibited.

5. REFERENCES

Input Message(s):
   ALW: AUD

Other Manual(s):
   235-600-400 Audits
INH:AUD-ENV

Software Release: 5E14 and later
Command Group: AUDIT
Application: 5
Type: Input

1. PURPOSE

Inhibits the automatic execution of a kernel process environment (OKP or SMKP) audit or the routine execution of the cycle in the administrative module (AM). The inhibit for the audit cycle is phase-protected. That is, once the audit cycle has been inhibited, it will remain inhibited even through system phases. An individual audit inhibit is not phase-protected and can only be set after the processor is up. A phase will have the effect of allowing previously inhibited audits to run.

2. FORMAT

INH:AUD[=a],ENV=b;

3. EXPLANATION OF MESSAGE

a
  = Audit ID for an application audit.
  CYCLE = Routine audit cycle. This is the default.

b
  = The kernel process. Valid value(s):
  OKP = Operational kernel process.
  SMKP = Switch maintenance kernel process.

4. SYSTEM RESPONSE

NG
  = No good. May also include:
  - ARGUMENT FOR ENV MISSING = The request has been denied because neither OKP nor SMKP were specified for variable "b".
  - AUDIT NOT AVAILABLE IN SPECIFIED ENV = The request has been denied because the specified audit is not available in the requested kernel process.
  - SM TYPE NOT VALID FOR THIS REQUEST = The request has been denied because an SM type (RSM, LSM, or HSM) was specified for a kernel process environment.

OK
  = The request has been received and completed; audit or audit cycle has been inhibited.

5. REFERENCES

Input Message(s):

  ALW:AUD

Other Manual(s):

  235-600-400 Audits

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INH:AUD-SM

Software Release: 5E14 and later
Command Group: AUDIT
Application: 5
Type: Input

1. PURPOSE

Inhibits the automatic execution of an audit or the routine execution of the audit cycle in the switching module (SM) or range of SMs. The inhibit for the audit cycle is phase-protected. That is, once the audit cycle has been inhibited, it will remain inhibited even through system phases. An individual audit inhibit is not phase-protected and can only be set after the processor is up. A phase will have the effect of allowing a previously-inhibited audit to run.

2. FORMAT

INH:AUD[=a],SM=b[&c][,RSM][,LSM][,HSM][,ORM][,TRM];

3. EXPLANATION OF MESSAGE

Note: Refer to the Acronym section of the Input Messages manual for the full expansion of acronyms shown in the format.

a = Audit(s) to be inhibited. The default is CYCLE. Valid value(s):
   Audit ID
   CYCLE = Inhibit the routine execution of the audit cycle.

b = SM number or lower limit of a range of SM numbers.

c = Upper limit of a range of SM numbers.

4. SYSTEM RESPONSE

NG = No good.
- AUDIT NOT AVAILABLE IN SM TYPE = The request has been denied because the audit specified in the ‘a’ variable does not exist in the SM type specified, or does not exist in any SM type.
- INVALID SM RANGE/TYPEx COMBINATION = The request has been denied because either the range is not in ascending order, or there is not at least one SM of the specified type (or any type) within the range.

OK = Good. The request has been received and completed. Audit or cycle has been inhibited.

RL = Retry later. May also include:
- MESSAGE BROADCAST INTERNAL ERROR = The message cannot be sent to the specified SM(s) at the present time due to problems in scheduling a job to broadcast the message.

5. REFERENCES
Input Message(s):
  ALM : AUD

Other Manual(s):
235-600-400  Audits
1. PURPOSE

Requests that the execution of either the full or incremental static office-dependent data (SODD) audit be inhibited. If the audit is currently running when this message is accepted, it is stopped. In addition, if the incremental audit is inhibited, all unaudited tuples are removed so that when the audit is eventually allowed, it does not produce invalid output caused by outdated tuples.

2. FORMAT

INH:AUD=SODD, {FULL | INCR};

3. EXPLANATION OF MESSAGE

FULL = The full SODD audit is to be inhibited.

INCR = The incremental SODD audit is to be inhibited.

4. SYSTEM RESPONSE

OK = The request has been received and completed; the SODD audit has been inhibited.

5. REFERENCES

Input Message(s):

ALW:AUD-SODD
OP:ST-AUD-SODD

Other Manual(s):

235-105-210 Routine Operations and Maintenance
INH:AUD

Software Release: 5E14 and later
Command Group: AUDIT
Application: 5,3B
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Requests that the routine execution of one or more audits that are controlled by the system integrity monitor (SIM) be inhibited. Entering the INH:AUD input message sets one or more audit inhibits to the manually inhibited state. This state can be removed only by entering an ALW:AUD input message. Every audit inhibit is removed by a phase 3 bootstrap.

Separate inhibit states are provided for:

- All audits. Entering the INH:AUD input message with the ALL option turns off routine audit scheduling completely, but has no effect on the inhibit states of individual audits.

- Each audit identified by audit name and member number. When an audit is inhibited it is not scheduled to run routinely. However, if it is permitted to run manually, it may be run by entering an AUD input message.

- One instance of an audit may be inhibited while other instances are allowed to run routinely.

Audit inhibit states may be displayed by entering the OP:AUD input message. The REPT:AUDSTAT output message periodically reports which audits are inhibited.

WARNING: Inhibiting audits may result in degradation of associated operating system resources.

2. FORMAT

INH:AUD,{ALL|a=[b]|a=c,INS=d};

3. EXPLANATION OF MESSAGE

ALL = Specifies all audits controlled by the SIM. Sets a master inhibit state which is independent of the inhibit states for individual audits.

a = Audit name. Central process or administrative module audit names can be found in the APP:MEM-NUM-AUD appendix in the Appendixes section of the Input Messages manual.

Note: If ‘a’ is specified without ‘b’, all members of the audit will be inhibited.

b = Member number. May be specified as a single number or a list of numbers. Member numbers can be found in the APP:MEM-NUM-AUD appendix in the Appendixes section of the Input Messages manual.

c = Single member number. Refer to the APP:MEM-NUM-AUD appendix in the Appendixes section of the Input Messages manual.
d = Instance name.

4. SYSTEM RESPONSE
Refer to the APP:AUD appendix in the Appendixes section of the Input Messages manual.

5. REFERENCES
Input Message(s):

   ALW : AUD
   OP : AUD

Output Message(s):

   OP : AUD
   REPT : AUDSTAT

Input Appendix(es):

   APP : AUD
   APP : MEM–NUM–AUD

Other Manual(s):
235-190-115  Local and Toll System Features
235-600-400  Audits
INH:AUTOBKUP

Software Release: 5E15 and later
Command Group: FHADM
Application: 5,3B
Type: Input

1. PURPOSE

Requests that all future automated system backup attempts be inhibited.

Format 1 is used to inhibit all future automated system backup attempts from executing until backups are once again allowed using the ALW:AUTOBKUP input message. If an automated system backup is currently in progress when INH:AUTOBKUP is executed, the backup will be allowed to continue, it will not be stopped. A message will be output indicating that an automated system backup is currently in progress. All future automated system backup attempts will be inhibited.

Format 2 is used to output a message indicating if automated system backups are currently inhibited or allowed. The inhibit status of automated system backups will not change. If automated system backups are allowed at the time INH:AUTOBKUP:STAT is executed, backups will remain allowed.

2. FORMAT

[1] INH:AUTOBKUP;


3. EXPLANATION OF MESSAGE

No Variables.

4. SYSTEM RESPONSE

PF = Printout follows. Followed by the INH:AUTOBKUP output message.

5. REFERENCES

Input Message(s):

ALW:AUTOBKUP
CLR:BKUP
OP:BKUP
SCHED:BKUP
SET:BKUP
STP:AUTOBKUP

Output Message(s):

INH:AUTOBKUP

Other Manual(s):

235-105-210 Routine Operations and Maintenance Procedures
INH:AUTOCFG

Software Release: 5E14 and later
Command Group: AM
Application: 5
Type: Input

1. PURPOSE

Requests that the automatic moving head disk (MHD) configuration feature be disabled for the entire office or for a specific MHD.

2. FORMAT

INH:AUTOCFG[:MHD=a];

3. EXPLANATION OF MESSAGE

a = Number of the MHD to be inhibited from auto MHD configuration. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual. If not specified, it defaults to the entire office.

4. SYSTEM RESPONSE

OK = Good. Requested inhibit has been set.

5. REFERENCES

Input Message(s):

ALW:AUTOCFG
OP:MHD-CFG

Output Message(s):

REPT:MHD-CONFIG

Input Appendix(es):

APP:RANGES

Other Manual(s):

Where (x) is the release-specific version of the specified manual.

235-600-30x ECD/SG Data Base
235-105-210 Routine Operations and Maintenance
INH:BICCCQ

**Software Release:** 5E15 and later  
**Command Group:** CCS  
**Application:** 5  
**Type:** Input

1. PURPOSE

Inhibits automatic periodic execution of the common channel signaling (CCS) office-wide bearer independent call control (BICC) call instance code (CIC) query. Inhibiting the automatic office-wide BICC CIC query does not affect manual BICC CIC query requests (EXC:BICCCQ input message). It also does not affect automatic or manual BICC CIC query requests already in progress.

2. FORMAT

INH:BICCCQ;

3. EXPLANATION OF MESSAGE

No variables.

4. SYSTEM RESPONSE

OK = The request has been accepted.

5. REFERENCES

Other Manual(s):
235-200-115  *CNI Common Channel Signaling*
235-200-116  *Signaling Gateway Common Channel Signaling*
INH:BREVC

Software Release: 5E14 and later
Command Group: MAINT
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Requests that automatic output message brevity control (BREVC) by output message class (MSGCLS) or processor be inhibited. The administrative module (AM), communication module processor (CMP) and all the switching modules (SMs) normally restrict the generation of output messages through automatic brevity controls. Under unusual circumstances, it may be desirable to allow certain output messages to route to the receive-only printer (ROP) or log file which otherwise would be suppressed. Brevity control restricts and prints application TTY output message by message class and priority to reduce the quantity of messages printed on the ROP. Inhibiting brevity control means that all messages generated by the switch will appear on the ROP.

The brevity status for each MSGCLS can be printed out using the OP:BREVC input message. The status for each system can be printed out using OP:SYSSTAT input message.

If a MSGCLS is selected, brevity control will be inhibited on all processors for that MSGCLS. If a processor is selected, brevity control will be inhibited on all output messages for that processor.

This inhibit is automatically cleared on high-level AM initializations. In addition, brevity control in the AM will be reallowed automatically if a shortage of message buffers is detected.

WARNING: Indiscriminate use of this inhibit may cause increased communication link traffic which can degrade call processing performance and capacity.

2. FORMAT

INH:BREVC, {MSGCLS=a | CMP=b | AM | SM=c (& &d) | LSM | HSM | RSM | ORM | TRM};

3. EXPLANATION OF MESSAGE

a = Message class mnemonic. The message class for a particular message can be found on the corresponding output message manual page. A list of all valid MSGCLS codes are printed using the OP:LPS input message.

b = CMP number.

c = SM number or lower limit of a range of SM numbers to be inhibited.

d = Upper limit of a range of SM numbers to be inhibited.

4. SYSTEM RESPONSE

NG = No good. An illegal SM number or range was specified. An illegal CMP number was specified.

OK = Good. The request was accepted and executed.
5. REFERENCES

Input Message(s):

ALW : BREVC
OP : BREVC
OP : LPS
OP : SYSSTAT

Output Message(s):

OP : BREVC
OP : LPS

Other Manual(s):
235-105-250 System Recovery
235-105-220 Corrective Maintenance

MCC Display Page(s):

110 (SYSTEM INHIBITS)
1800 (SM INH & RCVRY CNTL)
1850/1851 (CMP INH & RCVRY CNTL)
INH:CALLMON

Software Release: 5E14 and later
Command Group: SYSRCVY
Application: 5
Type: Input

1. PURPOSE

Requests that the call monitor be inhibited from making test calls and performing call completion analysis. It also initializes the call monitor history data. The inhibit state can be cleared by the ALW:CALLMON input message.

2. FORMAT

INH:CALLMON;

3. EXPLANATION OF MESSAGE

No variables.

4. SYSTEM RESPONSE

OK = Good. The request was accepted.

5. REFERENCES

Input Message(s):

ALW:CALLMON
CLR:CALLMON
OP:CALLMON
RTR:CALLMON
SET:CALLMON

Output Message(s):

OP:CALLMON
REPT:CALLMON-CMR
REPT:CALLMON-VTC

Output Appendix(es):

APP:CALLMON

Other Manual(s):

235-105-110 System Maintenance Requirements and Tools
235-105-210 Routine Operations and Maintenance

MCC Display Page(s):

116 (MISCELLANEOUS)
INH:CAMAONI

Software Release: 5E14 and later
Command Group: AMA
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Inhibits centralized automatic message accounting (CAMA) operator number identification (ONI) processing. A minor alarm occurs.

WARNING: When this message is in effect, all calls that would normally be routed to a CAMA operator are routed without billing.

2. FORMAT

INH:CAMAONI;

3. EXPLANATION OF MESSAGE

No variables.

4. SYSTEM RESPONSE

PF = Printout follows and a minor alarm occurs.

5. REFERENCES

Input Message(s):
   ALW:CAMAONI

Output Message(s):
   ALW:CAMAONI
   INH:CAMAONI
INH:CCS-PSLT

Software Release: 5E14 and later
Command Group: CCS
Application: 5
Type: Input

1. PURPOSE

Requests the inhibit for the periodic signaling link test (PSLT).

2. FORMAT

INH:CCS,PSLT,SM=a, [SET=b [MEMBER=c]]; 

3. EXPLANATION OF MESSAGE

a = CCS global switching module (GSM) number.
b = Link set number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
c = Link set member. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

PF = Printout follows. Followed by the INH:CCS,PSLT output message. Shall indicate success or failure of the inhibit request.

5. REFERENCES

Input Appendix(es):

APP:RANGES

Other Manual(s):
235-200-115 CNI Common Channel Signaling
235-200-116 Signaling Gateway Common Channel Signaling
INH:CCSCQ

Software Release: 5E14 and later
Command Group: CCS
Application: 5
Type: Input

1. PURPOSE

Inhibits automatic periodic execution of the common channel signaling (CCS) office-wide circuit query. Inhibiting the automatic office-wide circuit query does not affect future manual circuit query requests (EXC:CCSCQ command). It also does not affect automatic or manual circuit query requests already in progress.

2. FORMAT

INH:CCSCQ;

3. EXPLANATION OF MESSAGE

No variables.

4. SYSTEM RESPONSE

OK = Request accepted.

5. REFERENCES

Input Message(s):

ALW:CCSCQ
EXC:CCSCQ
OP:CCSCQ
OP:JOBSTATUS
STP:CCSCQ

Output Message(s):

EXC:CCSCQ
OP:CCSCQ
OP:JOBSTATUS
STP:CCSCQ

Other Manual(s):

235-190-120 Common Channel Signaling Service Features
INH:CLNORM

Software Release: 5E14 and later
Command Group: CM
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Request that the communication link normalization (CLNORM) process be inhibited. When CLNORM is inhibited, automatic communication link, foundation peripheral controller (FPC), quad-link packet switch (QLPS), and communication module processor (CMP) reconfiguration actions is not performed by CLNORM.

If the 'FPC' option is specified, only automatic FPC reconfiguration actions is inhibited. If the 'CMP' option is specified, only automatic CMP reconfiguration actions is inhibited.

WARNING: Use of this message may degrade communication link reliability. It is recommended that this message be used for testing purposes only.

2. FORMAT

INH:CLNORM[,]\{FPC|CMP\};

3. EXPLANATION OF MESSAGE

CMP = Communication module processor. Inhibit CMP normalization only. Communication link, QLPS, and FPC normalization is still performed.

FPC = Foundation peripheral controller. Inhibit FPC normalization only. Communication link, QLPS, and CMP normalization is still performed.

4. SYSTEM RESPONSE

PF = Printout follows. The request was accepted. Followed by the INH:CLNORM output message.

5. REFERENCES

Input Message(s):

ALW:CLNORM
SW:CMP
SW:FPC
SW:QLPS

Output Message(s):

ALW:CLNORM
INH:CLNORM
Other Manual(s):
235-105-250   System Recovery Procedures
INH:CONFLOG

Software Release: 5E14 and later
Command Group: FHADM
Application: 5,3B
Type: Input

1. PURPOSE
Inhibits error logging on the CONFLOG error logfile for all specified central processor units. Error logging does not occur for any unit beneath the unit specified.

2. FORMAT
INH:CONFLOG:a=b;

3. EXPLANATION OF MESSAGE

a  = Unit name, as specified in the unit control block (UCB). Refer to the APP:MEM-NUM-UNIT appendix in the Appendixes section of the Input Messages manual for administrative module (AM) unit names.

b  = Unit number, as specified in the unit control block. Refer to the APP:MEM-NUM-UNIT appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

OK  = Good. Request accepted.
PF  = Printout follows. Followed by the INH:CONFLOG output message.
RL  = Retry later.

5. REFERENCES

Input Message(s):
ALW:CONFLOG

Output Message(s):
INH:CONFLOG

Input Appendix(es):
APP:MEM–NUM–UNIT
INH:CORC

Software Release: 5E14 and later
Command Group: ODD
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Requests that all customer-originated recent changes (CORC) be inhibited. This message should be entered only immediately before evolving CORC logfiles during a retrofit.

WARNING: This message should be used only during retrofit.

2. FORMAT

INH:CORC;

3. EXPLANATION OF MESSAGE

No variables.

4. SYSTEM RESPONSE

PF = Printout follows.

5. REFERENCES

Input Message(s):
   ALW:CORC
   INH:RC

Output Message(s):
   INH:RC
INH:CORCLOG-SM

Software Release: 5E14 and later
Command Group: ODD
Application: 5
Type: Input

1. PURPOSE

Inhibits the logging of customer-originated recent changes for one or more switching modules (SMs). This should be used only when the logging of customer-originated recent changes is causing a problem in the system.

2. FORMAT

INH:CORCLOG, SM=a;

3. EXPLANATION OF MESSAGE

a = SM number or range of numbers.

4. SYSTEM RESPONSE

NG = No good. The input message is not valid.
OK = The input message is accepted.

5. REFERENCES

Input Message(s):

INH:RCLOG
INH:DEBUG

Software Release: 5E14 and later
Command Group: TRKLN
Application: 5
Type: Input

1. PURPOSE

Requests that debugging messages be inhibited from being printed for a given feature. Inhibiting debugging messages on a switching module (SM) prohibits additional ASSERT, PTRACE, and REPT:METALLIC output messages from being printed during error handling.

Using METALLMSG will inhibit METRESBLK, METSWBLK, and METHWFAIL.

Format 1 is for ALE, CCS7MTCE, DIGITAL, METALLIC, METPTRACE, METALLMSG, METRESBLK, METSWBLK, METHWFAIL, METSUCCESS, and MLT SM only cases.

Format 2 is for CCS7MTCE and MLT AM only cases.

Format 3 is for MLT AM and SM cases.

2. FORMAT

[1] INH:DEBUG,a,SM[=b[&c]];  
[2] INH:DEBUG,a,AM;  
[3] INH:DEBUG,a;

3. EXPLANATION OF MESSAGE

a  = Feature with additional debugging messages. Valid value(s):
ALE  = Automatic line evaluation.
CCS7MTCE  = Common channel signal maintenance activity.
DIGITAL  = Digital testing of lines (TST:DSL) and trunks (TST:TRK).
METALLIC  = Metallic path setup ASSERT and PTRACE messages with low-level unformatted information, not intended for general customer use.
METPTRACE  = Metallic related PTRACE messages.
METALLMSG  = Metallic path setup blockage and failure.
METRESBLK  = Metallic path setup resource blockage.
METSWBLK  = Metallic path setup software blockage.
METHWFAIL  = Metallic path setup hardware failure.
METSUCCESS  = Metallic path setup completed successfully.
MLT  = Mechanized loop test.
TSTPATH  = Test path application (TST:PATH).

b  = SM number or the lower limit of a range of SM numbers (defaults to all equipped SMs). Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

c  = The upper limit of a range of SM numbers. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
4. SYSTEM RESPONSE

NG  = No good. The message was not recognized or acceptable.
PF  = Printout follows. Followed by INH:DEBUG output message.

5. REFERENCES

Input Message(s):

ALW:DEBUG  
CHG:LPS-MSGCLS  
OP:DEBUG  
TST:DSL  
TST:TRK

Output Message(s):

ALW:DEBUG  
INH:DEBUG  
OP:DEBUG  
REPT:METALLIC

Input Appendix(es):

APP:RANGES

Other Manual(s):

235-105-220  Corrective Maintenance
INH:DLNHB

Software Release: 5E14 and later
Command Group: CCS
Application: 5
Type: Input

1. PURPOSE

Requests that the common network interface (CNI) automatic direct link node (DLN) heartbeat test be inhibited. The ALW:DLNHB and INH:DLNHB input messages form the basic on/off mechanism for DLN heartbeat. When the INH:DLNHB is issued, DLNHB will do nothing (except consume a certain amount of fixed overhead) until the ALW:DLNHB is issued.

2. FORMAT

INH:DLNHB;

3. EXPLANATION OF MESSAGE

No variables.

4. SYSTEM RESPONSE

NG = No good. May also include:
- DLNs ARE NOT EQUIPPED = DLN heartbeat is neither necessary nor enabled when the CNI ring is not equipped with DLNs.

OK = Good. Automatic testing allowed.

5. REFERENCES

Input Message(s):

ALW:DLNHB

Output Message(s):

REPT:DLNHB

Other Manual(s):
235-190-120 Common Channel Signaling Service Features
INH:DMQ

Software Release: 5E14 and later
Command Group: MAINT
Application: 5,3B
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Request that the specified source of automatic maintenance requests be inhibited. Any process that sends a restore, remove, or diagnose request to the administrative module (AM) maintenance input request administrator can be prevented from doing so for the amount of time specified. A reminder that a specific inhibit is in effect is output at the specified intervals.

WARNING: Inhibiting automatic maintenance requests may result in hardware units remaining out-of-service (OOS) longer than necessary.

Note: The automatic maintenance requests will remain inhibited until the appropriate ALW:DMQ input message is issued.

2. FORMAT

INH:DMQ:SRC=a[,TINH=b][,AINH=c];

3. EXPLANATION OF MESSAGE

a = Three-character source name. Valid value(s):
   ADP = Automatic diagnostic process.
   ALL = Inhibits all automatic maintenance requests by changing the inhibited sources to ALL.
   ARR = Automatic ring recovery.
   REX = Routine exerciser.

Application processes may specify other sources of diagnostic requests.

b = The amount of time, in minutes, that the requests will be inhibited. The default is infinity. Specifying zero is the same as defaulting.

c = Alarm interval, in minutes. Each time this period elapses, a REPT:DMQ output message will be printed, indicating the inhibit that is in effect. The default is five minutes.

4. SYSTEM RESPONSE

OK = Good. Request accepted.

PF = Printout follows. Followed by OP:DMQ or the REPT:DMQ output message.
5. REFERENCES

Input Message(s):

ALW : DMQ
OP : DMQ

Output Message(s):

INH : DMQ
OP : DMQ
REPT : DMQ
INH:DOC

Software Release: 5E14 and later
Command Group: NMOC
Application: 5
Type: Input

1. PURPOSE
Requests that the dynamic overload control (DOC) treatment be inhibited upon the reception of DOC signals on a per trunk group basis.

2. FORMAT
INH:DOC,TG=a;

3. EXPLANATION OF MESSAGE

a = Trunk group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

NG = No good. May also include:
   - INVALID REQUEST = The request has been denied. This office is not equipped to process the request entered.

PF = Printout follows. Followed by the INH:DOC output message.

RL = Retry later. May also include:
   - RESOURCE SHORTAGE = The necessary resources are not available.

5. REFERENCES

Input Message(s):
   ALW:DOC
   OP:DOC

Output Message(s):
   INH:DOC

Input Appendix(es):
   APP:RANGES

Other Manual(s):
MCC Display Page(s):

130 (NM EXCEPTION)
INH:DRHR

Software Release: 5E14 and later
Command Group: MEAS
Application: 5
Type: Input

1. PURPOSE
Inhibits the division of revenue hourly report (DRHR) from being output to the traffic channel.

2. FORMAT
INH:DRHR;

3. EXPLANATION OF MESSAGE
No variables.

4. SYSTEM RESPONSE
OK = Good. The requested report has been inhibited.

5. REFERENCES
Input Message(s):
   ALW:DRHR
   OP:MEASTAT

Other Manual(s):
235-070-101 Administrative Guidelines
INH:DSILC
Software Release: 5E14 and later
Command Group: NMOC
Application: 5
Type: Input

1. PURPOSE
Requests that the transmission of dynamic overload control (DOC) signals and the application of selective incoming load control (SILC) be inhibited.

2. FORMAT
INH:DSILC;

3. EXPLANATION OF MESSAGE
No variables.

4. SYSTEM RESPONSE
NG = No good. May also include:
   - INVALID REQUEST = The request has been denied. This office is not equipped to process the request entered.

PF = Printout follows. Followed by the INH:DSILC output message.

RL = Retry later. May also include:
   - RESOURCE SHORTAGE = The necessary resources are not available.

5. REFERENCES
Input Message(s):
   ALW:DSILC
   OP:DOC
   OP:SILC

Output Message(s):
   INH:DSILC

Other Manual(s):
235-190-120  CCS7 Signaling Service Features

MCC Display Page(s):
   130 (NM EXCEPTION)
INH:EAIINT

**Software Release:** 5E14 and later  
**Command Group:** SYSRCVY  
**Application:** 5,3B  
**Type:** Input

**1. PURPOSE**

Inhibits the logging and processing of emergency action interface (EAI) error interrupts from the 3B21D computer control unit (CU) specified in the identification field. If a CU is not specified with the input request, EAI error interrupts for both CUs are inhibited.

*Note:* The 3B20D computer CUs do not have EAI error interrupts.

**CAUTION:** Inhibiting EAI error interrupts can prevent the system from recovering automatically from hardware faults.

**2. FORMAT**

[1] INH:EAIINT;


**3. EXPLANATION OF MESSAGE**

a = CU number 0 or 1.

**4. SYSTEM RESPONSE**

PF = Printout Follows. Followed by the INH:EAIINT output message.

?I = Invalid input. May also include:
- INPUT ERROR = Identification field error.

**5. REFERENCES**

Input Message(s):

ALW:ERRCHK  
INH:EAIINT  
INH:ERRCHK

Output Message(s):

ALW:EAIINT  
INH:EAIINT  
OP:ERRCHK
INH:ECDAUD

Software Release: 5E14 and later
Command Group: MAINT
Application: 5
Type: Input

1. PURPOSE

Requests that the execution of the on-switch ECD audit be inhibited. If the audit is currently running when this message is entered, the audit is allowed to continue to completion.

2. FORMAT

INH:ECDAUD;

3. EXPLANATION OF MESSAGE

No variables.

4. SYSTEM RESPONSE

PF = Printout follows. Followed by the INH:ECDAUD output message.

5. REFERENCES

Input Message(s):

STOP:ECDAUD
EXC:ECDAUD
ALW:ECDAUD
SCHED:ECDAUD
OP:ECDAUD

Output Message(s):

INH:ECDAUD

Other Manual(s):
235-100-125  System Description
235-105-210  Routine Operations and Maintenance Manual
INH:EON5REPT

Software Release: 5E14 and later
Command Group: MAINT
Application: 5
Type: Input

1. PURPOSE

This input message is associated with a secured or proprietary feature. Refer to the SECURED/PROPRIETARY FEATURES portion of the INTRODUCTION section of the Input Messages manual.

2. FORMAT

INH:EON5REPT;

3. EXPLANATION OF MESSAGE

No variables.

4. SYSTEM RESPONSE

NO = Feature not available.
RL = Retry later.
OK = Good. Request was accepted.

5. REFERENCES

Input Message(s):

ALW:EON5REPT

Output Message(s):

REPT:EON5-DRA
REPT:EON5-TE
INH:ERRCHK

Software Release: 5E14 and later
Command Group: SYSRCVY
Application: 5,3B
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Inhibits the logging and processing of all administrative module (AM) error sources. This message causes the inhibit administrator to set the inhibit status to inhibited for all UNIX® RTR inhibit sources. These include HDWCHK, SFTCHK, ERRINT, and the ERRSRC pseudo-nodes representing the control unit (CU) complexes.

WARNING: Inhibiting hardware checks, software checks, and error interrupts can prevent the system from recovering automatically from hardware or software faults.

2. FORMAT

INH:ERRCHK;

3. EXPLANATION OF MESSAGE

No variables.

4. SYSTEM RESPONSE

PF = Printout follows. Followed by the INH:ERRCHK output message.

?I = Identification field error.

5. REFERENCES

Input Message(s):

ALM:ERRCHK
INH:ERRINT
INH:ERRSRC
INH:HDWCHK
INH:SFTCHK
OP:ERRCHK

Output Message(s):

ALM:ERRCHK
INH:ERRCHK
OP:ERRCHK
INH:ERRINT
Software Release: 5E14 and later
Command Group: SYSRCVY
Application: 5,3B
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Request that the logging and processing of error interrupts attached to the administrative module (AM) unit specified in the identification field be inhibited. If a unit name is not specified, then error interrupts for all AM units are inhibited.

WARNING: Inhibiting error interrupts can prevent the system from recovering automatically from hardware faults.

2. FORMAT

INH:ERRINT[:{a=b[,c=d]}];

3. EXPLANATION OF MESSAGE

a = Unit name. Refer to the APP:MEM-NUM-UNIT appendix in the Appendixes section of the Input Messages manual for AM unit names.

   Note: Inhibiting a control unit (CU) in an active/standby duplex configuration inhibits both CUs since they must be kept in identical states.

b = Unit number. Refer to the APP:MEM-NUM-UNIT appendix in the Appendixes section of the Input Messages manual.

c = Subunit name. Refer to the APP:MEM-NUM-CU appendix in the Appendixes section of the Input Messages manual for AM CU subunit names.

d = Subunit number. Refer to the APP:MEM-NUM-CU appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

NG = No good. Indicates that the unit name and number specified was found in the database but is unequipped.

PF = Printout follows. Followed by the INH:ERRINT output message.

5. REFERENCES

Input Message(s):

ALW:ERRCHK
INH:ERRCHK
INH:ERRINT

Output Message(s):
ALW:ERRINT
INH:ERRINT
OP:ERRCHK

Input Appendix(es):
APP:MEM–NUM–CU
APP:MEM–NUM–UNIT

Other Manual(s):
235-105-110  System Maintenance Requirements and Tools
INH:ERRSRC

Software Release: 5E14 and later
Command Group: SYSRCVY
Application: 5,3B
Type: Input

1. PURPOSE

Inhibits the logging and processing of errors specific to the pseudo-nodes representing the administrative module (AM) control unit (CU) communities. This message causes the inhibit administrator to set the inhibit status to inhibited for the CU pseudo-nodes.

2. FORMAT

INH:ERRSRC;

3. EXPLANATION OF MESSAGE

No variables.

4. SYSTEM RESPONSE

PF = Printout follows. Followed by the INH:ERRSRC output message.

5. REFERENCES

Input Message(s):

ALW:ERRSRC
INH:ERRCHK
OP:ERRCHK

Output Message(s):

ALW:ERRSRC
INH:ERRSRC
OP:ERRCHK
INH:ESP

Software Release: 5E14 and later
Command Group: NMOC
Application: 5
Type: Input

1. PURPOSE
Requests that the essential service protection (ESP) be inhibited.

2. FORMAT
INH:ESP!

3. EXPLANATION OF MESSAGE
No variables.

4. SYSTEM RESPONSE
PP = Printout follows. Followed by the INH:ESP output message. A response will also be reflected on page 109 of the Master Control Center (MCC).

5. REFERENCES
Input Message(s):
   ALW:ESP

Output Message(s):
   INH:ESP

Other Manual(s):
235-105-110  Maintenance Requirements and Tools
235-190-115  Local and Toll System Features

MCC Display Page(s):
   109 (OVERLOAD)

RC/V View(s):
   8.1 (Office Parameters)
INH:ESQREPT

Software Release: 5E15 and later
Command Group: MAINT
Application: 5
Type: Input

1. PURPOSE

This message is associated with a secured or proprietary feature. Refer to the SECURED/PROPRIETARY FEATURES portion of the INTRODUCTION section of this manual.

2. FORMAT

INH:ESQREPT

3. EXPLANATION OF MESSAGE

No variables.

4. SYSTEM RESPONSE

NO = Feature not available
RL = Retry later.
OK = Good. Request was accepted.

5. REFERENCES

Input Message(s):
ALW:ESQREPT

Output Message(s):
REPT:ESQ-DRA
REPT:ESQ-TE
INH:EXTPM

- **Software Release:** 5E17(1) and later
- **Command Group:** MAINT
- **Application:** 5
- **Type:** Input

### 1. PURPOSE

Deactivates all active external performance monitoring (PM) sessions and inhibits the initiation of future external PM sessions over one or more packet switch unit (PSU) asynchronous transfer mode (ATM) links (PSALNK).

A PSALNK provides the ability to interconnect the local PSU with multiple other PSUs in the ATM network, as designated by their community address and subnetwork identifiers. Each of these PSU-to-PSU connections can be monitored internally for performance-impacting metrics in accordance to the GR-1248 ATM standard and included in the relevant switch measurement reports for output. Similarly, the far endpoint of each PSU-to-PSU connection can request that the identical virtual circuit be monitored.

The purpose of this input message is to prevent these external requests for PM activity by far endpoints from being fulfilled by the host switch. It has the added effect of deactivating any currently active external PM sessions (except for shared flows as explained below). Each PM session (either internally or externally initiated) consumes a set amount of finite resources on each end of the target virtual circuit. Once these resources have been exhausted, additional PM requests will be denied. The corresponding ALW:EXTPM input message provides a means of enabling external PM activity.

Any single ATM virtual circuit may be tracked for performance activity by both the local host and the remote endpoint simultaneously. Such a PM session has both internal and external properties. When both endpoints have identical connection types [for example, both are virtual path connections (VPC) or both are virtual channel connections (VCC)], this PM session is referred to as a shared flow. One side of a shared flow (internal or external) cannot be disabled without affecting the entire session. For this reason, the INH:EXTPM input message deactivates all currently active external PM sessions except for those containing shared flows. To deactivate a shared flow, the internal PM session must be inhibited with the INH:PM input message. The INH:PM input message will also deactivate the external portion of a shared flow if external PM was previously inhibited.

If the PSALNK option is included, only the specified PSALNK will be affected by the input message. Otherwise, all PSALNKs in the office will be affected by the input message.

PM is only supported over a virtual circuit terminated locally by a PSALNK hosted on a protocol handler for ATM version 2 (PHA2).

### 2. FORMAT

\[ \text{INH:EXTPM}[, \text{PSALNK}=a-b-c] ; \]

### 3. EXPLANATION OF MESSAGE

- **a** = Switching module (SM) number of the target PSALNK.
- **b** = PSU number of the target PSALNK.
- **c** = Link number of the target PSALNK.

### 4. SYSTEM RESPONSE

\[ \text{PF} \] = Printout follows. Followed by one or more INH:EXTPM output messages.
NG = No good. May also include:
- NO PHA2 PSALNK EQUIPPED = The request has been denied. The message is valid but no PSALNKs within the scope of the input message were detected in the current equipage.
- PSALNK UNEQUIPPED = The request has been denied. The message is valid but the specified PSALNK was not detected in the current equipage.
- MUST BE A PHA2 PSALNK = The request has been denied. The message is valid but the specified PSALNK is not hosted by a PHA2.
- AM TIMER NOT STARTED = The request has been denied. The message is valid but a shortage of system resources has prevented any action from being taken.
- DATABASE ERROR = The request has been denied. The message is valid but an internal database error has prevented any action from being taken.
- INTERNAL CORRUPTION = The request has been denied. The message is valid but an internal data corruption error has prevented any action from being taken.

RL = Retry later. May also include:
- PREVIOUS REQUEST IN PROGRESS The request has been denied. The message is valid but the previous request must complete before a new request can be made.

5. REFERENCES

Input Message(s):

ALW: EXTPM
ALW: PM
INH: PM
OP: LIST-FLOWACT

Output Message(s):

ALW: EXTPM
ALW: PM
INH: EXTPM
INH: PM
OP: LIST-FLOWACT

Input Appendix(es):

APP: RANGES
INH:FAC-A

Software Release: 5E14 - 5E15
Command Group: TRKLN
Application: 5
Type: Input

1. PURPOSE

Request to inhibit reports of transmission facility performance monitoring (PM) threshold crossing alerts (refer to the REPT:FAC output message) for facilities terminated on a digital facility interface (DFI) model 2 (DFI-2), an integrated digital carrier unit (IDCU), or a digital networking unit - synchronous optical network (SONET) (DNU-S) number. This alert inhibit request overrides recent changeable allow states on RC/V Views 8.1, 20.23, 20.25, or 22.15. To determine a unit's alert control status, refer to the OP:FAC input message.

2. FORMAT

INH:FAC,a;

3. EXPLANATION OF MESSAGE

a = Valid value(s):

<table>
<thead>
<tr>
<th>DFAC=n-b-c-d[,e]</th>
<th>IDCU=n-f[,e]</th>
</tr>
</thead>
<tbody>
<tr>
<td>DFI=n-b-c[,e]</td>
<td>IFAC=n-f-g[,e]</td>
</tr>
<tr>
<td>DLTU=n-b[,e]</td>
<td>IDCURT=n-f-h[,e]</td>
</tr>
<tr>
<td>DNUS=n-i[,e]</td>
<td>SM=n</td>
</tr>
<tr>
<td>DNUSRT=n-i-h[,e]</td>
<td>EC1STE=n-i-j-k[,e]</td>
</tr>
<tr>
<td>DS1SFAC=n-i-j-k-l-m-o[,e]</td>
<td>VT1FAC=n-i-j-k-l-m-o[,e]</td>
</tr>
</tbody>
</table>

b = DLTU number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

c = DFI number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

d = Facility number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

e = Type of alerts to inhibit. Valid value(s):

<table>
<thead>
<tr>
<th>ALL</th>
<th>DAY</th>
<th>INT</th>
</tr>
</thead>
<tbody>
<tr>
<td>Both interval and daily alerts (default).</td>
<td>Daily alerts.</td>
<td>15-minute interval alerts.</td>
</tr>
</tbody>
</table>

f = IDCU number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

g = IFAC number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

h = TR303 RT number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

i = DNU-S number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
j = Data group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

k = SONET termination equipment (STE) facility number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

l = Synchronous transport signal (STS) facility number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

m = Virtual tributary group (VTG) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

n = SM number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

o = Virtual tributary member (VTM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

NG = No good. The input contained an illegal specification.

PF = Printout follows. Followed by the INH:FAC output message.

RL = Retry later. The request has been denied, probably due to system load.

5. REFERENCES

Input Message(s):

ALW:FAC
INIT:FAC
OP:FAC
OP:JOBSTATUS

Output Message(s):

ALW:FAC
INH:FAC
INIT:FAC
OP:FAC
REPT:FAC

Input Appendix(es):

APP:RANGES

Other Manual(s):

235-105-220 Corrective Maintenance Procedures
RC/V View(s):

8.1 [OFFICE PARAMETERS (MISCELLANEOUS)]
20.23 (IDCU FACILITY EQUIPMENT)
20.25 (DNU-S PERFORMANCE MONITORING THRESHOLD GROUP)
22.15 (PERFORMANCE MONITORING)
INH:FAC-B

Software Release: 5E16(1) only
Command Group: TRKLN
Application: 5
Type: Input

1. PURPOSE

Request to inhibit reports of transmission facility performance monitoring (PM) threshold crossing alerts (refer to the REPT:FAC output message) for facilities terminated on a digital facility interface (DFI) model 2 (DFI-2), an integrated digital carrier unit (IDCU), an optical interface unit (OIU), or a digital networking unit - synchronous optical network (SONET) (DNUS-S) number. This alert inhibit request overrides recent changeable allow states on RC/V Views 8.1 [OFFICE PARAMETERS (MISCELLANEOUS)]0, 20.23 [IDCU FACILITY EQUIPMENT (IFAC)], 20.25 [DNUS PERFORMANCE MONITORING - THRESHOLD GROUP (SM2000)], or 22.15 (PERFORMANCE MONITORING - THRESHOLD GROUP). To determine a unit's alert control status, refer to the OP:FAC input message.

2. FORMAT

INH:FAC,a;

3. EXPLANATION OF MESSAGE

a = Unit. Valid value(s):

   DFAC=n-b-c-d[,e]
   DFI=n-b-c[,e]
   DLTU=n-b[,e]
   DNUS=n-i[,e]
   DNUSRT=n-i-h[,e]
   DS1=n-p-q-r-s-t-u[,e]
   DS1SFAC=n-i-j-k-l-m-o[,e]
   EC1STE=n-i-j-k[,e]
   IDCU=n-f[,e]
   IDCURT=n-f-h[,e]
   IFAC=n-f-g[,e]
   OC3=n-p-q-r[,e]
   OIU=n-p[,e]
   SM=n
   STS1=n-p-q-r-s[,e]
   VT15=n-p-q-r-s-t-u[,e]
   VT1FAC=n-i-j-k-l-m-o[,e]

b = DLTU number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

c = DFI number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

d = Facility number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

e = Type of alerts to inhibit. Valid value(s):

   ALL = Both interval and daily alerts (default).
DAY = Daily alerts.
INT = 15-minute interval alerts.

f = IDCU number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
g = IFAC number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
h = TR303 RT number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
i = DNU-S number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
j = Data group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
k = SONET termination equipment (STE) facility number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
l = Synchronous transport signal (STS) facility number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
m = Virtual tributary group (VTG) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
n = Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
o = Virtual tributary member (VTM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
p = Optical interface unit (OIU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
q = Protection group (PG) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
r = Optical carrier - level 3 (OC3) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
s = STS - level 1 (STS-1) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
t = Virtual tributary 1.5 group (VTGRP) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
u = Virtual tributary 1.5 member (VTMEM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

NG = No good. The input contained an illegal specification.
PF  = Printout follows. Followed by the INH:FAC output message.

RL  = Retry later. The request has been denied, probably due to system load.

5. REFERENCES

Input Message(s):

ALW:FAC
INIT:FAC
OP:FAC
OP:JOBSTATUS

Output Message(s):

ALW:FAC
INH:FAC
INIT:FAC
OP:FAC
REPT:FAC

Input Appendix(es):

APP: RANGES

Other Manual(s):
235-105-220  Corrective Maintenance

RC/V View(s):
8.1  OFFICE PARAMETERS (MISCELLANEOUS)
20.23  IDCU FACILITY EQUIPMENT (IFAC)
20.25  DNUS PERFORMANCE MONITORING - THRESHOLD GROUP (SM2000)
22.15  PERFORMANCE MONITORING - THRESHOLD GROUP
INH:FAC-C

Software Release: 5E16(2) and later
Command Group: TRKLN
Application: 5
Type: Input

1. PURPOSE

Request to inhibit reports of transmission facility performance monitoring (PM) threshold crossing alerts (refer to the REPT:FAC output message) for facilities terminated on a digital facility interface (DFI) model 2 (DFI-2), an integrated digital carrier unit (IDCU), an optical interface unit (OIU), digital networking unit - synchronous optical network (SONET) (DNUS) number or a session initiation protocol (SIP) protocol handler (PH) on a packet switch unit (PSU). This alert inhibit request overrides recent changeable allow states on RC/V Views 8.1 [OFFICE PARAMETERS (MISCELLANEOUS)], 20.23 [IDCU FACILITY EQUIPMENT (IFAC)], 20.25 [DNUS PERFORMANCE MONITORING - THRESHOLD GROUP (SM2000)], 20.32 (PERFORMANCE MONITORING THRESHOLD GROUP), or 22.15 (PERFORMANCE MONITORING - THRESHOLD GROUP). To determine a unit's alert control status, refer to the OP:FAC input message.

2. FORMAT

INH:FAC,a;

3. EXPLANATION OF MESSAGE

\[ a \] = Unit. Valid value(s):

- DFAC=n-b-c-d[,e]
- DFI=n-b-c[,e]
- DLTU=n-b[,e]
- DNUS=n-i[,e]
- DNUSTR=n-i-h[,e]
- DS1=n-p-q-r-s-t-u[,e]
- DS1SFAC=n-i-j-k-l-m-o[,e]
- EC1STE=n-i-j-k[,e]
- IDCUR=n-f[,e]
- IDCURT=n-f-h[,e]
- IFAC=n-f-g[,e]
- OIU=n-p[,e]
- OC3=n-p-q-r[,e]
- OC3C=n-p-q-v[,e]
- PPPLK=n-p-q-v-w[,e]
- PSU=n-x[,e]
- PSUPH=n-x-y-z[,e]
- SM=n
- STS1=n-p-q-r-s[,e]
- STS3C=n-p-q-v-w[,e]
- VT15=n-p-q-r-s-t-u[,e]
- VT1FAC=n-i-j-k-l-m-o[,e]

\[ b \] = DLTU number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

\[ c \] = DFI number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
Facility number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

Type of alerts to inhibit. Valid value(s):

- **ALL**: Both interval and daily alerts (default).
- **DAY**: Daily alerts.
- **INT**: 15-minute interval alerts.

IDCU number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

IFAC number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

TR303 RT number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

DNU-S number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

Data group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

SONET termination equipment (STE) facility number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

Synchronous transport signal (STS) facility number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

Virtual tributary group (VTG) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

Virtual tributary member (VTM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

Optical interface unit (OIU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

Protection group (PG) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

Optical carrier - level 3 (OC3) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

STS - level 1 (STS-1) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

Virtual tributary 1.5 group (VTGRP) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

Virtual tributary 1.5 member (VTMEM) number. Refer to the APP:RANGES appendix in the
Appendixes section of the Input Messages manual.

\[ \text{v} \quad \text{= Optical carrier - level 3 concatenated (OC3C) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.} \]

\[ \text{w} \quad \text{= Synchronous transport signal - level 3 concatenated (STS3C) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.} \]

\[ \text{x} \quad \text{= Packet switch unit (PSU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.} \]

\[ \text{y} \quad \text{= PSU shelf (PSUSHLF) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.} \]

\[ \text{z} \quad \text{= PSU relative protocol handler (PSURELPH). Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.} \]

4. SYSTEM RESPONSE

\[ \text{NG} \quad \text{= No good. The input contained an illegal specification.} \]

\[ \text{PF} \quad \text{= Printout follows. Followed by the INH:FAC output message.} \]

\[ \text{RL} \quad \text{= Retry later. The request has been denied, probably due to system load.} \]

5. REFERENCES

Input Message(s):

\begin{verbatim}
ALW:FAC
INIT:FAC
OP:FAC
OP:JOBSTATUS
\end{verbatim}

Output Message(s):

\begin{verbatim}
ALW:FAC
INH:FAC
INIT:FAC
OP:FAC
REPT:FAC
\end{verbatim}

Input Appendix(es):

\[ \text{APP:RANGES} \]

Other Manual(s):

235-105-220    Corrective Maintenance

RC/V View(s):

8.1    OFFICE PARAMETERS (MISCELLANEOUS)
<table>
<thead>
<tr>
<th>Line</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>20.12</td>
<td>STS-1 FACILITY PROVISIONING (DNU-S)</td>
</tr>
<tr>
<td>20.23</td>
<td>IDCU FACILITY EQUIPMENT (IFAC)</td>
</tr>
<tr>
<td>20.24</td>
<td>VT1.5 FACILITY PROVISIONING (DNU-S)</td>
</tr>
<tr>
<td>20.25</td>
<td>DNU-S PERFORMANCE MONITORING THRESHOLD GROUP (SM2000)</td>
</tr>
<tr>
<td>20.29</td>
<td>OIU SONET TERMINATION EQUIPMENT (SM2000)</td>
</tr>
<tr>
<td>20.30</td>
<td>HIGH-LEVEL VIRTUAL CONTAINER (OIU)</td>
</tr>
<tr>
<td>20.31</td>
<td>LOW-LEVEL VIRTUAL CONTAINER (OIU)</td>
</tr>
<tr>
<td>20.32</td>
<td>PERFORMANCE MONITORING THRESHOLD GROUP (OIU, SIP PSUPH)</td>
</tr>
<tr>
<td>22.15</td>
<td>PERFORMANCE MONITORING (DLTU)</td>
</tr>
<tr>
<td>33.16</td>
<td>SIP-T PROCESSOR GROUP</td>
</tr>
</tbody>
</table>
INH:FSYS-UMOUNT

Software Release: 5E14 and later
Command Group: FHADM
Application: 5,3B
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Inhibits the use of a previously mounted file system. It informs the system that the removable file system previously mounted is to be removed.

WARNING: Incorrect use of this input message can prevent the system from accessing needed files.

2. FORMAT

INH:FILESYS,UMOUNT,FN="a";

3. EXPLANATION OF MESSAGE

a = Special device name of the file system to be unmounted. Refer to the ECD/SG manual.

4. SYSTEM RESPONSE

PF = Printout follows. Followed by the INH:FSYS-UMOUNT output message.

5. REFERENCES

Input Message(s):
ALW:FSYS-MOUNT
OP:ST-FILESYS

Output Message(s):
INH:FSYS-UMOUNT
OP:ST-FILESYS

Other Manual(s):
Where 'x' is the release-specific version of the specified document.

235-600-30x ECD/SG
235-105-210 Routine Operations and Maintenance

MCC Display Page(s):
INH:GKCCR
Software Release: 5E14 and later
Command Group: ODD
Application: 5
Type: Input

1. PURPOSE
Requests the inhibition of automatic executions of the generated key collection and compression routine (GKCCR) in specified processors. Either specific processors can be specified or no processors can be specified. If no processors are specified, then the GKCCR will be inhibited on every processor.

2. FORMAT
INH:GKCCR[,SM=a[&b]][,CMP=c][,AM];

3. EXPLANATION OF MESSAGE
a = Switching module (SM) number or the lower limit of a range of SM numbers.
b = The upper limit of a range of SM numbers.
c = Communications module processor (CMP) number.

4. SYSTEM RESPONSE
NG = No good. The input request is invalid. May also include:
   - NO VALID PROCESSOR SPECIFIED = Specific processor(s) were specified in the input request line, but no requested processor was operational. If specific processors are to be requested, at least one requested processor must be operational.
OK = Good. Request was accepted.

5. REFERENCES
Input Message(s):
   EXC:GKCCR
   INH:GKCCR
   ALW:GKCCR

Output Message(s):
   EXC:GKCCR
   REPT:GKCCR

Other Manual(s):
235-105-220 Corrective Maintenance
235-105-210 Routine Operations and Maintenance
INH:HDW-AIU

Software Release: 5E14 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Inhibits hardware checks on an access interface unit (AIU).

2. FORMAT

INH:HDWCHK,AIU=a-b;

3. EXPLANATION OF MESSAGE

a = Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

b = AIU number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

NG = No good. The message form is valid, but the request conflicts with the current status.

PF = Printout follows. Followed by the INH:HDW-AIU output message.

RL = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

Input Message(s):

ALW:HDW–AIU

Output Message(s):

INH:HDW–AIU

Input Appendix(es):

APP:RANGES

MCC Display Page(s):

1320.y,x (AIU SUMMARY)
INH:HDW-CDFI

Software Release: 5E14 and later
Command Group: SM
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Inhibits maintenance interrupts on an inter-remote switching module (RSM) communication link digital facilities interface (CDFI) circuit. Interrupts may be re-enabled with the ALW:HDWCHK-CDFI input message.

WARNING: Inhibiting hardware checks can prevent the system from recovering automatically from hardware faults in this unit.

2. FORMAT

INH:HDWCHK,CDFI=a-b-c;

3. EXPLANATION OF MESSAGE

a = Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

b = Digital line and trunk unit (DLTU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

c = CDFI number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

NG = No good. The message syntax is valid, but the request conflicts with current system or equipment status. May also include:

- NOT STARTED UNIT IN GROWTH STATE
- SM DOES NOT EXIST
- SM UNEQUIPPED
- UNIT DOES NOT EXIST

PF = Printout follows. Followed by the INH:HDWCHK-CDFI output message.

RL = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

Input Message(s):
ALW: HDW-CDFI

Output Message(s):
INH: HDW-CDFI

Input Appendix(es):
APP: RANGES
INH:HDW-CDI

**Software Release:** 5E14 and later
**Command Group:** SM
**Application:** 5
**Type:** Input

1. **PURPOSE**
Inhibits the hardware error checks performed on the specified control data interface (CDI).

2. **FORMAT**

   INH:HDWCHK,CDI=a-b-c;

3. **EXPLANATION OF MESSAGE**

   a  = Switching module number.

   b  = Trunk unit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

   c  = Service group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. **SYSTEM RESPONSE**

   PF = Printout follows. Followed by the INH:HDW-CDI output message.

5. **REFERENCES**

   **Output Message(s):**

   INH:HDW-CDI

   **Input Appendix(es):**

   APP:RANGES
**INH:HDW-CLNK**

**Software Release:** 5E14 and later  
**Command Group:** CM  
**Application:** 5  
**Type:** Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. **PURPOSE**

Inhibits level 2 and level 3 hardware checks (errors) on one or all of the specified communication links (CLNKs). Refer to the Corrective Maintenance manual for an explanation of level 2 and level 3 errors.

**WARNING:** Inhibiting hardware checks can prevent the system from recovering automatically from hardware faults in this unit.

2. **FORMAT**

```
INH:HDWCHK,CLNK{=a-b-c-d|,ALL};
```

3. **EXPLANATION OF MESSAGE**

- **ALL** = Inhibit errors on all communication links (CLNKs).
- **a** = Switching module (SM) number.
- **b** = Office network and timing complex (ONTC) side. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
- **c** = Module message processor (MMP) type. Valid value(s):
  - 0 = Alpha.
  - 1 = Beta.
- **d** = Message switch ( MSGS) side. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. **SYSTEM RESPONSE**

- **NG** = No good. May also include:
  - ALL NOT VALID WITH A SINGLE UNIT = A single CLNK and ALL may not be specified together.
  - UNIT UNEQUIPPED = The specified single CLNK is unequipped.

- **PF** = Printout follows. A printout will follow when the requested action is completed.

5. **REFERENCES**
Input Message(s):

ALW: HDW-CLNK
OP: HDWCHK

Other Manual(s):
235-105-220   Corrective Maintenance
INH:HDW-CM

Software Release: 5E14 and later
Command Group: CM
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Inhibits all hardware error checks on all communication module (CM) units. This includes the message switch control unit (MSCU) (for communication module model 2; hardware only), foundation peripheral controller (FPC), pump peripheral controller (PPC), module message processor (MMP), office network and timing complex (ONTC), and communication links (CLNKs).

WARNING: Inhibiting hardware checks can prevent the system from recovering automatically from hardware faults in these units.

2. FORMAT

INH:HDWCHK,CM;

3. EXPLANATION OF MESSAGE

No variables.

4. SYSTEM RESPONSE

IP = In progress. The phrase 'PENDING EXIT FROM MANUAL CM ISOLATION' indicates that the request cannot be executed now because the communication module (CM) is isolated from the administrative module (AM) using a manual request. The request will be acted upon once AM communication with the CM is re-established.

NG = No good. The request has been denied. The message syntax is valid, but the request could not be processed. Refer to the APP:CM-IM-REASON appendix in the Appendixes section of the Input Messages manual for a list of possible reasons for denying the request.

PF = Printout follows. The request has been accepted and an INH:HDW-CM output message will follow.

RL = Retry later. The request cannot be executed now because the communication module (CM) deferred maintenance queue (DMQ) is full; try again later.

5. REFERENCES

Input Message(s):

ALW: HDW–CM
CLR: ISOL–CM
Output Message(s):

INH : HDW-CM

Input Appendix(es):

APP : CM-IM-REASON
INH:HDW-CMP

Software Release: 5E14 and later
Command Group: CM
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Requests that the hardware checks on the specified communication module processor (CMP) be inhibited.

WARNING: Inhibiting hardware checks can prevent the system from recovering automatically from hardware faults in this unit.

2. FORMAT

INH:HDWCHK,{CMP=a-b|CMP=b,{PRIM|MATE}};

3. EXPLANATION OF MESSAGE

MATE = Mate, or non-active, CMP member.
PRIM = Primary, or active, CMP member.
a = Message switch side number.
b = CMP number.

4. SYSTEM RESPONSE

NG = No good. The request has been denied. The message syntax is valid, but the request could not be processed. Refer to the APP:CM-IM-REASON appendix in the Appendixes section of the Input Messages manual for a list of possible reasons for denying the request.
PF = Printout follows. Followed by the INH:HDW-CMP output message.
RL = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

Input Message(s):
ALW: HDW-CMP
OP: HDWCHK

Output Message(s):
ALW: HDW-CMP
INH: HDW-CMP
OP : HDWCHK

Input Appendix(es):

APP : CM–IM–REASON

Other Manual(s):

235-105-110   System Maintenance Requirements and Tools
235-105-250   System Recovery Procedures

MCC Display Page(s):

1241/51 (MSGS COMMUNITIES 0-1, 8-9)
INH:HDW-DCLU

Software Release: 5E14 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE
Inhibits the hardware error checks performed on the specified SLC®96 digital carrier line unit (DCLU).

2. FORMAT
INH:HDWCHK,DCLU=a-b-c;

3. EXPLANATION OF MESSAGE

a = Switching module (SM) number.
b = DCLU number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
c = Service group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

NG = No good. The request has been denied. The message form is valid, but the request conflicts with current status.
PF = Printout follows. The request was accepted. Followed by the INH:HDW-DCLU output message.
RL = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

Output Message(s):

INH:HDW-DCLU

Input Appendix(es):

APP:RANGES
INH:HDW-DCTUCOM

Software Release: 5E14 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Inhibits the hardware error checks performed on the specified directly connected test unit common board (DCTUCOM).

2. FORMAT

INH: HDWCHK, DCTUCOM=a-b;

3. EXPLANATION OF MESSAGE

a = Switching module (SM) number.

b = Directly connected test unit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

Refer to the System Responses Table in the Input Messages User Guidelines.

5. REFERENCES

Input Appendix(es):

APP: RANGES
INH:HDW-DFI

Software Release: 5E14 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE
Inhibits the hardware error checks performed on the specified digital facility interface (DFI).

2. FORMAT
INH:HDWCHK,DFI=a-b-c;

3. EXPLANATION OF MESSAGE

a = Switching module number.
b = Digital line/trunk unit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
c = DFI number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE
Refer to the APP:SYS-RESPONSE in the Appendixes section of the Input Messages manual.

5. REFERENCES
Output Message(s):
   INH:HDW-DFI

Input Appendix(es):
   APP:RANGES
INH:HDW-DFIH

Software Release: 5E14 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Inhibits hardware checks in a remote integrated services line unit (RISLU) host/remote digital facility interface circuit pair (DFIH). The system inhibits the hardware checks if internal status allows the transition. The system requires an ALW:HDW-DFIH input message to enable the hardware checks.

2. FORMAT

INH:HDWCHK,DFIH=a-b-c;

3. EXPLANATION OF MESSAGE

a = Switching module (SM) number.
b = RISLU digital line and trunk unit (DLTU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
c = DFIH number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

NG = No good. May also include:
   - NG-CONFLICT WITH UNIT STATE
   - NG-SM DOES NOT EXIST
   - NG-SM UNEQUIPPED
   - NG-UNIT DOES NOT EXIST

PF = Printout follows. Followed by the INH:HDW-DFIH output message.

RL = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

Input Message(s):
   ALW:HDW-DFIH

Output Message(s):
   INH:HDW-DFIH
Input Appendix(es):

APP : RANGES
INH:HDW-DFTAC

Software Release: 5E14 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Inhibits the hardware error checks performed on the specified distributing frame test access circuit (DFTAC).

2. FORMAT

INH:HDWCHK,DFTAC=a-b-c-d;

3. EXPLANATION OF MESSAGE

a = Switching module number.
b = Metallic service unit (MSU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
c = Service group. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
d = Circuit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

NG = No good. Invalid IM number, MSU number, or service group number.
PF = Printout follows. Output message will follow with completion status.
RL = Retry later. The request cannot be executed now due to unavailable system resources (such as, IM is not linked).

5. REFERENCES

Output Message(s):

INH:HDW-DFTAC

Input Appendix(es):

APP:RANGES
INH:HDW-DNUSCC

Software Release: 5E14 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE
Requests that hardware checks be inhibited on a digital networking unit - synchronous optical network (DNU-S) common controller (DNUSCC).

2. FORMAT
INH:HDWCHK,DNUSCC=a-b-c;

3. EXPLANATION OF MESSAGE

a = Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

b = DNU-S number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

c = Common controller number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

NG = No good. The message form is valid, but the request conflicts with the current status.

PF = Printout follows. Followed by the INH:HDW-DNUSCC output message.

RL = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES
Input Message(s):
ALW:HDW-DNUSCC

Output Message(s):
INH:HDW-DNUSCC

Input Appendix(es):
APP:RANGES

MCC Display Page(s):
1510 (DNUS STATUS)
INH:HDW-DNUSCD

Software Release: 5E14 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Requests that hardware checks be inhibited on a digital networking unit - synchronous optical network (DNU-S) common data (DNUSCD).

2. FORMAT

INH:HDWCHK,DNUSCD=a-b-c-d;

3. EXPLANATION OF MESSAGE

a = Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
b = DNU-S number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
c = Data group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
d = Common data number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

NG = No good. The message form is valid, but the request conflicts with the current status.
PF = Printout follows. Followed by the INH:HDW-DNUSCD output message.
RL = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

Input Message(s):

ALW:HDW-DNUSCD

Output Message(s):

INH:HDW-DNUSCD

Input Appendix(es):

APP:RANGES
MCC Display Page(s):

1510 (DNUS STATUS)
INH:HDW-FPC

Software Release: 5E14 and later
Command Group: CM
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Inhibits the hardware error checks on the specified foundation peripheral controller (FPC).

WARNING: Inhibiting hardware checks can prevent the system from recovering automatically from hardware faults in this unit.

2. FORMAT

INH:HDWCHK,FPC=a;

3. EXPLANATION OF MESSAGE

a = FPC number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

NG = No good. The message was invalid.

PF = Printout follows.

5. REFERENCES

Input Message(s):

ALW:HDWCHK
OP:CFGSTAT

Output Message(s):

ALW:HDWCHK
INH:HDWCHK
OP:CFGSTAT

Input Appendix(es):

APP:RANGES
INH:HDW-GDSF

Software Release: 5E14 and later
Command Group: SM
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Checks hardware in a global digital services function (GDSF) circuit. The module software inhibits the indicated error source. The system requires an ALW message to allow the error source.

WARNING: Inhibiting hardware checks can prevent the system from recovering automatically from hardware faults in this unit.

2. FORMAT

INH:HDWCHK,GDSF=a-b;

3. EXPLANATION OF MESSAGE

a = Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

b = GDSF number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

NG = No good. Message syntax is valid, but the request conflicts with current equipment status.

PF = Printout follows. The request has been accepted. Output message INH:HDW-GDSF will follow.

RL = Retry later.

5. REFERENCES

Input Message(s):

ALW:HDW-GDSF

Output Message(s):

ALW:HDW-GDSF
INH:HDW-GDSF

Input Appendix(es):
INH:HDW-GDSUCOM

Software Release: 5E14 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE
Inhibits the hardware error checks performed on the specified global digital service unit common (GDSUCOM) board.

2. FORMAT
INH:HDWCHK,GDSUCOM=a-b-c;

3. EXPLANATION OF MESSAGE

a = Switching module number.
b = Digital service unit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
c = Service group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE
Refer to the System Responses Table in the Input Messages User Guidelines.

5. REFERENCES
Input Appendix(es):

APP:RANGES
INH:HDW-GDXACC

Software Release: 5E14 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Inhibits the hardware error checks performed on the specified gated diode crosspoint access (GDXACC) circuit.

2. FORMAT

INH:HDWCHK,GDXACC=a-b-c;

3. EXPLANATION OF MESSAGE

a  = Switching module number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

b  = Line unit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

c  = Service group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

Refer to the System Responses Table in the Input Messages User Guidelines.

5. REFERENCES

Input Appendix(es):

APP:RANGES
INH:HDW-GDXC

Software Release: 5E14 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Inhibits the hardware error checks performed on the specified gated diode crosspoint compensator (GDXC) circuit. The module software inhibits the indicated error source. The system requires an ALW message to allow the error source.

2. FORMAT

INH:HDWCHK,GDXC=a-b-c-d;

3. EXPLANATION OF MESSAGE

a  = Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

b  = Metallic service unit (MSU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

c  = Service group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

d  = MSU board position number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

Refer to the System Responses Table in the Input Messages User Guidelines.

5. REFERENCES

Input Appendix(es):

APP:RANGES
INH:HDW-GDXCON

Software Release: 5E14 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Inhibits the hardware error checks performed on the specified gated diode crosspoint control (GDXCON) circuit.

2. FORMAT

INH:HDWCHK,GDXCON=a-b-c;

3. EXPLANATION OF MESSAGE

a = Switching module number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

b = Line unit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

c = Service group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

Refer to the System Responses Table in the Input Messages User Guidelines.

5. REFERENCES

Input Appendix(es):

APP: RANGES
INH:HDW-GRID

Software Release: 5E14 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE
Inhibits the hardware error checks performed on the specified gated diode crosspoint grid (GRID).

2. FORMAT
INH:HDWCHK,GRID=a-b-c;

3. EXPLANATION OF MESSAGE

a = Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

b = Line unit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

c = Grid number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE
Refer to the System Responses Table in the Input Messages User Guidelines.

5. REFERENCES
Input Appendix(es):

APP:RANGES
INH:HDW-GRIBDB

Software Release: 5E14 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Inhibits the hardware error checks performed on the specified line unit model 2; (LU2) or line unit model 3; (LU3) grid board.

2. FORMAT

INH:HDWCHK,GRIBDB=a-b-c-d;

3. EXPLANATION OF MESSAGE

a = Switching module number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual
b = Line unit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual
c = Grid number. Valid value(s):
(0–7) = LU2
(0–9) = LU3
d = Board number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual

4. SYSTEM RESPONSE

NG = No good. The request has been denied. The message form is valid, but the request conflicts with current status.
PF = Printout follows. Followed by the INH:HDW-GRIBDB output message, including completion status.
RL = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

Input Message(s):

ALW:HDW-GRIBDB

Output Message(s):

ALW:HDW-GRIBDB
INH:HDW-GRIBDB
Input Appendix(es):

APP : RANGES
INH:HDW-HDFI

Software Release: 5E14 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Inhibits the hardware error checks performed on the specified host switching module (HSM) digital facilities interface (HDFI) circuit.

2. FORMAT

INH:HDWCHK,HDFI=a-b-c;

3. EXPLANATION OF MESSAGE

a = Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual

b = Digital line and trunk unit (DLTU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual

c = HDFI number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual

4. SYSTEM RESPONSE

NG = No good. Request denied because of a conflict with current status.

PF = Printout follows.

5. REFERENCES

Input Message(s):
ALW:HDW-HDFI

Input Appendix(es):
APP:RANGES
INH:HDW-IDCU

Software Release: 5E14 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Requests that interrupts in an integrated digital carrier unit (IDCU) service group circuit be inhibited. The module software will inhibit all error sources from the service group. The system requires an ALW:HDW-IDCU input message to allow the error sources.

2. FORMAT

INH:HDWCHK,IDCU=a-b-c;

3. EXPLANATION OF MESSAGE

a = Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual
b = IDCU number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual
c = IDCU service group. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual

4. SYSTEM RESPONSE

NG = No good. The request has been denied. The message is valid but the request conflicts with current status.
PF = Printout follows. Followed by the INH:HDW-IDCU output message.
RL = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

Input Message(s):

ALW:HDW-IDCU

Output Message(s):

INH:HDW-IDCU

Input Appendix(es):

APP:RANGES
Other Manual(s):
235-105-220   Corrective Maintenance
235-105-110   System Maintenance Requirements and Tools

MCC Display Page(s):
186x (IDCU CIRCUIT)
INH:HDW-IDCUELI

Software Release: 5E14 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Requests that interrupts in an integrated digital carrier unit (IDCU) electrical line interface (ELI) circuit be inhibited. The module software will inhibit all error sources from the circuit. The system requires an ALW:HDW-IDCUELI input message to allow the error sources.

2. FORMAT

INH:HDWCHK,IDCUELI=a-b-c;

3. EXPLANATION OF MESSAGE

a = Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

b = IDCU number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

c = ELI number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

NG = No good. The request has been denied. The message is valid but the request conflicts with current status.

PF = Printout follows. Followed by the INH:HDW-IDCUELI output message.

RL = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

Input Message(s):

ALW:HDW-IDCUELI

Output Message(s):

INH:HDW-IDCUELI

Input Appendix(es):

APP:RANGES
Other Manual(s):
235-105-220  Corrective Maintenance
235-105-110  System Maintenance Requirements and Tools

MCC Display Page(s):

186x (IDCU CIRCUIT)
INH:HDW-IFAC

Software Release: 5E14 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Requests that interrupts in an integrated digital carrier unit (IDCU) facility (IFAC) circuit be inhibited. The module software will inhibit all error sources from the facility. The system requires an ALW:HDW-IFAC input message to allow the error sources. This input message will only work on IFACs associated with the A and P facilities for the TR008 remote terminal (RT) and on the protection line for the TR303 RT.

2. FORMAT

INH:HDWCHK,IFAC=a-b-c;

3. EXPLANATION OF MESSAGE

a = Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

b = IDCU number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

c = IFAC number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

NG = No good. The request has been denied. The message is valid but the request conflicts with current status.

PF = Printout follows. Followed by the INH:HDW-IFAC output message.

RL = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

Input Message(s):

ALW:HDW-IFAC

Output Message(s):

INH:HDW-IFAC

Input Appendix(es):

APP:RANGES
Other Manual(s):
235-105-220  Corrective Maintenance
235-105-110  System Maintenance Requirements and Tools

MCC Display Page(s):
  187x  (IFAC CIRCUIT)
  188xyy  (IDCU REMOTE TERMINAL)
**INH:HDW-ISLUCC**

**Software Release:** 5E14 and later  
**Command Group:** SM  
**Application:** 5  
**Type:** Input

1. **PURPOSE**

Requests that hardware checks be inhibited on an integrated services line unit common controller (ISLUCC).

2. **FORMAT**

```
INH:HDWCHK,ISLUCC=a-b-c;
```

3. **EXPLANATION OF MESSAGE**

- **a** = Switching module (SM) number.
- **b** = Integrated services line unit (ISLU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
- **c** = Common controller number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. **SYSTEM RESPONSE**

- **NG** = No good. The message form is valid, but the request conflicts with the current status.
- **PF** = Printout follows. Followed by the INH:HDW-ISLUCC output message.
- **RL** = Retry later. The request cannot be executed now due to unavailable system resources.

5. **REFERENCES**

**Input Message(s):**

```
ALW:HDW-ISLUCC
```

**Output Message(s):**

```
INH:HDW-ISLUCC
```

**Input Appendix(es):**

```
APP:RANGES
```

**MCC Display Page(s):**

- 170x (ISLU NETWORK)
- 170xy (ISLU LINE GROUP)
INH:HDW-ISLUCD

Software Release: 5E14 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE
Requests that hardware checks be inhibited on an integrated services line unit common data (ISLUCD).

2. FORMAT
INH:HDWCHK,ISLUCD=a-b-c;

3. EXPLANATION OF MESSAGE

a = Switching module (SM) number.

b = Integrated services line unit (ISLU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

c = Common data number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

NG = No good. The message form is valid, but the request conflicts with the current status.

PF = Printout follows. Followed by the INH:HDW-ISLUCD output message.

RL = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES
Output Message(s):
INH:HDW-ISLUCD

Input Appendix(es):
APP:RANGES

MCC Display Page(s):
170x (ISLU NETWORK)
170xy (ISLU LINE GROUP)
INH:HDW-ISLUHLSC
Software Release: 5E14 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Inhibits ring trip interrupts in an integrated services line unit (ISLU) high level service circuit (HLSC).

2. FORMAT

INH:HDWCHK,ISLUHLSC=a-b-c-d;

3. EXPLANATION OF MESSAGE

a = Switching module (SM) number.
b = Line unit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
c = Service group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
d = HLSC number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

NG = No good. The request has been denied. The message is valid but the request conflicts with current status.
PF = Printout follows. Followed by the INH:HDW-ISLUHLSC output message.
RL = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

Input Message(s):

ALW:HDW-ISLUHLSC

Output Message(s):

INH:HDW-ISLUHLSC

Input Appendix(es):

APP:RANGES
INH:HDW-ISLUMAN

Software Release: 5E14 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE
Inhibits interrupts in an integrated services line unit (ISLU) metallic access network (MAN).

2. FORMAT
INH:HDWCHK,ISLUMAN=a-b-c-d;

3. EXPLANATION OF MESSAGE

a = Switching module number.

b = Line unit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

c = Service group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

d = MAN number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

NG = No good. The request has been denied. The message is valid but the request conflicts with current status.

PF = Printout follows. Followed by the INH:HDW-ISLUMAN output message.

RL = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

Input Message(s):
   ALW:HDW-ISLUMAN

Output Message(s):
   INH:HDW-ISLUMAN

Input Appendix(es):
   APP:RANGES
INH:HDW-ISLURG

Software Release: 5E14 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Inhibits error sources in an integrated services line unit (ISLU) ringing generator (RG).

2. FORMAT

INH:HDWCHK,ISLURG=a-b-c;

3. EXPLANATION OF MESSAGE

a = Switching module (SM) number.
b = Line unit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
c = Service group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

NG = No good. The request has been denied. The message is valid but the request conflicts with current status.
PF = Printout follows. Followed by the INH:HDW-ISLURG output message.
RL = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

Input Message(s):

ALW:HDW-ISLURG

Output Message(s):

INH:HDW-ISLURG

Input Appendix(es):

APP:RANGES
INH:HDW-ISTF

Software Release: 5E14 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Inhibits hardware checks in an integrated services test function (ISTF) unit. The module software inhibits the indicated error source. The system first requires an ALW message to allow the error source before inhibiting.

2. FORMAT

INH:HDWCHK,ISTF=a-b;

3. EXPLANATION OF MESSAGE

a = Switching module (SM) number.
b = ISTF unit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

NG = No good. The request has been denied because it conflicts with current equipment status. May also include:
   - SM DOES NOT EXIST = The requested SM does not exist in the system.
   - SM UNEQUIPPED = The SM specified in the request is unequipped.
   - UNIT DOES NOT EXIST = The requested unit does not exist in the system.

PF = Printout follows. The request has been accepted. Followed by the INH:HDW-ISTF output message.

RL = Retry later. The request cannot be executed now due to unavailable system resources. The message may be entered again later.

5. REFERENCES

Input Message(s):
ALW:HDW-ISTF

Output Message(s):
ALW:HDW-ISTF
INH:HDW-ISTF

Input Appendix(es):
APP: RANGES
INH:HDW-IWGLI
Software Release: 5E15 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE
Inhibits hardware checks on an Inter-Working Gateway Link Interface Unit (IWGLI)

2. FORMAT
INH:HDWCHK,IWGLI=a-b-c-d;

3. EXPLANATION OF MESSAGE
a  = Switch Module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
b  = Inter-Working Gateway (IWG) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
c  = Data Group (DG) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
d  = Inter-Working Gateway Link Interface (IWGLI) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE
NG  = No good. The message form is valid, but the request conflicts with the current status.
PF  = Printout follows. Followed by the INH:HDW-IWGLI output message.
RL  = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES
Input Message(s):
  DGN:IWGLI

Output Message(s):
  INH:HDW-IWGLI

Input Appendix(es):
  APP:RANGES
INH:HDW-LDSF

Software Release: 5E14 and later
Command Group: SM
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Checks hardware in a local digital service function (LDSF) circuit. The module software inhibits the indicated error source. The system requires an ALW message to allow the error source.

WARNING: Inhibiting hardware checks can prevent the system from recovering automatically from hardware faults in this unit.

2. FORMAT

INH:HDWCHK,LDSF=a-b;

3. EXPLANATION OF MESSAGE

a = Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

b = LDSF number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

NG = No good. Message syntax is valid, but the request conflicts with current equipment status.

PF = Printout follows. The request has been accepted. Followed by the INH:HDW-LDSF output message.

RL = Retry later.

5. REFERENCES

Input Message(s):

ALW:HDW-LDSF

Output Message(s):

ALW:HDW-LDSF
INH:HDW-LDSF
INH:HDW-LDSU

Software Release: 5E14 and later
Command Group: SM
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Checks hardware in a local digital service unit - model 2 (LDSU2) board. The module software inhibits the indicated error source. The system requires an ALW message to allow the error source.

WARNING: Inhibiting hardware checks can prevent the system from recovering automatically from hardware faults in this unit.

2. FORMAT

INH:HDWCHK,LDSU=a-b-c;

3. EXPLANATION OF MESSAGE

a = Switching module (SM) number.
b = Local digital service unit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
c = Service group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

NG = No good. Message syntax is valid, but the request conflicts with current equipment status.
PF = Printout follows. The request has been accepted. Followed by the INH:HDW-LDSU output message.
RL = Retry later.

5. REFERENCES

Input Message(s):

ALW: HDW-LDSU

Output Message(s):

ALW: HDW-LDSU
INH: HDW-LDSU
Input Appendix(es):

APP: RANGES
**INH:HDW-LDSUCOM**

Software Release: 5E14 and later  
Command Group: SM  
Application: 5  
Type: Input

1. PURPOSE

Inhibits the hardware error checks performed on the specified local digital service unit common (LDSUCOM) board.

2. FORMAT

   INH:HDWCHK,LDSUCOM=a-b-c;

3. EXPLANATION OF MESSAGE

   a = Switching module number.  
   b = Local digital service unit number.  
   c = Service group number.

4. SYSTEM RESPONSE

Refer to the System Responses Table in the Input Messages User Guidelines.

5. REFERENCES

   Output Message(s):  
   INH:HDW-LDSUCOM

   Input Appendix(es):  
   APP:RANGES
1. PURPOSE

Inhibits the hardware error checks performed on the specified line unit channel (LUCHAN).

2. FORMAT

INH:HDWCHK,LUCHAN=a-b-c-d-e;

3. EXPLANATION OF MESSAGE

a = Switching module number.
b = Line unit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
c = Service group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
d = Channel board number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
e = Channel number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

Refer to the System Responses Table in the Input Messages User Guidelines.

5. REFERENCES

Output Message(s):

INH:HDW-LUCHAN

Input Appendix(es):

APP:RANGES
INH:HDW-LUCOMC

Software Release: 5E14 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Inhibits the hardware error checks performed on the specified line unit common control (LUCOMC).

2. FORMAT

INH:HDWCHK,LUCOMC=a-b-c;

3. EXPLANATION OF MESSAGE

a = Switching module number.
b = Line unit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
c = Service group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

Refer to the System Responses Table in the Input Messages User Guidelines.

5. REFERENCES

Output Message(s):

INH:HDW-LUCOMC

Input Appendix(es):

APP:RANGES
INH:HDW-LUHLSC

Software Release: 5E14 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Inhibits the hardware error checks performed on the specified line unit high service circuit (LUHLSC).

2. FORMAT

INH:HDWCHK,LUHLSC=a-b-c-d;

3. EXPLANATION OF MESSAGE

a  = Switching module number.
b  = Line unit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
c  = Service group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
d  = High level service circuit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

Refer to the System Responses Table in the Input Messages User Guidelines.

5. REFERENCES

Output Message(s):

INH:HDW-LUHLSC

Input Appendix(es):

APP:RANGES
INH:HDW-MCTSI-A

Software Release: 5E14 only
Command Group: SM
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Requests that a hardware check (HDWCHK) be inhibited in a module controller/time-slot interchange unit (MCTSI).
The system requires an ALW:HDW-MCTSI input message to allow the HDWCHK.

WARNING: Inhibiting ALL disables all hardware error detection circuitry, puts the processor into a slow state, and
disables the cache memory. This will result in degraded switching module (SM) performance. Inhibiting
ALL has no performance impact on SMs with the MCTU3 (module controller/time slot interchange unit 3)
or SM-2000s.

2. FORMAT

INH:HDWCHK,MCTSI=a-b,c;

3. EXPLANATION OF MESSAGE

a = SM/SM-2000 number. Refer to the APP:RANGES appendix in the Appendixes section of the Input
   Messages manual.

b = Module controller number. Refer to the APP:RANGES appendix in the Appendixes section of the
   Input Messages manual.

c = Keyword that specifies inhibit bit names. Valid value(s):
   Note: If the keyword is invalid for the specified SM/SM-2000, the request will be denied
   with the message STOPPED REQUEST NOT ALLOWED.
   ALL = All module controller maintenance errors. Refer to the service degradation
   warning.
   AFFCI = Active flip-flop cleared interrupt. Valid for SMs with the MCTU3 and in SM-2000s.
   ARPV = Arbitration protocol violation error. Valid for SM-2000 only.
   CACHE = Cache errors. Inhibiting CACHE on SM-2000s with cache inhibits the interrupts
   source while on non-SM-2000s with caches it disables the cache area as well,
   which slows down the operation of the processor. This option is only valid for SMs
   with the module controller/time slot interchange unit 2 (MCTU2), the extended
   memory addressing (EMA) 20 or SM-2000s equipped with a CORE60 processor
   pack.
   CADPR = Memory address mismatch error. Valid for SM-2000 only.
   CBERR = Correctable bit error. Inhibiting this error will degrade processor performance.
   Inhibiting this error has no performance impact on SM-2000 or MCTU3.
   CI0IN = Control interface 0 interrupt.
   CI1IN = Control interface 1 interrupt.
   CPINT = Enhanced central processor intervention interrupt.
DCODE = Decode error. Valid for SM-2000 only.
DLOPE = Dual link interface (DLI) 0 parity error. Not valid for SM-2000.
DL0I = Data link 0 interrupt. Not valid for SM-2000.
DL1I = Data link 1 interrupt. Not valid for SM-2000.
IA0 = DLI0 illegal access error. Not valid for SM-2000.
IA1 = DLI 1 illegal access error. Not valid for SM-2000.
LPVER = Bus lock violation. Valid for SM-2000 only.
MADPE = Address parity error.
MCINT = Resets in the mate controller.
MH0IN = Message handler 0 interrupt. Valid for SM-2000 only.
MH1IN = Message handler 1 interrupt. Valid for SM-2000 only.
MH2IN = Message handler 2 interrupt. Valid for SM-2000 only.
MIOIO = I/O invalid operation error.
MIOLE = I/O timer lock error.
MIOTO = I/O timer time out error.
MIOUE = I/O unlock error.
MPRIN = Maintenance interrupts in the mate MCTSI.
MRDYT = Ready time out.
MRSPERR = Multiple response error. Valid for MCTU2 and SM-2000 only.
MRWPE = Read or write parity error.
MWPER = Write protect error. For SM-2000, inhibiting this error will not inhibit all write protect errors because they are not all inhibitable.
NCBERR = Non-correctable bit error. Valid for SM-2000 only.
PIINT = Packet interface (PI) interrupt.
PUMPHW = Pump hardware errors. Valid for MCTU2, MCTU3, and SM-2000 only.
REFE = Dynamic RAM refresh fail error. Valid for SM-2000 only.
SSYNC = Scanned I/O sync error. Valid for SM-2000 only.
TSIIN = Time-slot interchange (TSI) interrupt. For SM-2000, this will also inhibit interrupts from network link interfaces (NLIs).
TSI4IN = TSI model four interrupt. Inhibiting this bit will not affect the inhibits for NLIs. Use this if you want to inhibit only TSI interrupts. Valid for SM-2000 only.

4. SYSTEM RESPONSE

PF = Printout follows. Followed by the INH:HDW-MCTSI output message.
RL = Retry later. The message cannot be processed, so try the message again later. This response will be output if the AM cannot communicate with the requested SM/SM-2000.
5. REFERENCES

Input Message(s):

ALW: HDW-MCTSI
OP : OFFNORM-SM

Output Message(s):

INH: HDW-MCTSI
OP : OFFNORM-SM

Input Appendix(es):

APP : RANGES

Other Manual(s):
235-105-250  System Recovery
INH:HDW-MCTSI-B

Software Release: 5E15 - 5E16(1)
Command Group: SM
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Requests that a hardware check (HDWCHK) be inhibited in a module controller/time-slot interchange unit (MCTSI). The system requires an ALW:HDW-MCTSI input message to allow the HDWCHK.

WARNING: Inhibiting ALL disables all hardware error detection circuitry, puts the processor into a slow state, and disables the cache memory. This will result in degraded switching module (SM) performance. Inhibiting ALL has no performance impact on SMs with the MCTU3 (module controller/time slot interchange unit 3) or SM-2000s.

2. FORMAT

INH:HDWCHK,MCTSI=a-b,c;

3. EXPLANATION OF MESSAGE


b = Module controller number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

c = Keyword that specifies inhibit bit names. Valid value(s):

Note: If the keyword is invalid for the specified SM/SM-2000, the request will be denied with the message STOPPED REQUEST NOT ALLOWED.

ALL = All module controller maintenance errors. Refer to the service degradation warning.

AFFCI = Active flip-flop cleared interrupt. Valid for SMs with the MCTU3 and in SM-2000s.

ARPV = Arbitration protocol violation error. Valid for SM-2000 only.


CACHE = Cache errors. Inhibiting CACHE on SM-2000s with cache inhibits the interrupts source while on non-SM-2000s with caches it disables the cache area as well, which slows down the operation of the processor. This option is only valid for SMs with the module controller/time slot interchange unit 2 (MCTU2), the extended memory addressing (EMA) 20 or SM-2000s equipped with a CORE60 processor pack.

CADPR = Memory address mismatch error. Valid for SM-2000 only.

CBERR = Correctable bit error. Inhibiting this error will degrade processor performance. Inhibiting this error has no performance impact on SM-2000 or MCTU3.

CI0IN and CI00IN = Control interface (CI) 0 interrupt.

CI1IN and CI01IN = CI 1 interrupt.

CI2IN and CI02IN = CI 2 interrupt. Valid for SM-2000 only.

CI3IN and CI03IN = CI 3 interrupt. Valid for SM-2000 only.
<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>CIxyN</td>
<td>CI interrupt in an electrical extended control and data unit (XCDU) or optical extended control and data unit (OXU) shelf where &quot;x&quot; is the XCDU/OXU number and &quot;y&quot; is the CI number. x is 0 for local CIs and 1 - 8 for XCDU/OXU, y is the CI number which is 0 - 3 for local and 0 - 2 for XCDU/OXU. Valid for SM-2000 only.</td>
</tr>
<tr>
<td>CPINT</td>
<td>Enhanced central processor intervention interrupt.</td>
</tr>
<tr>
<td>DCODE</td>
<td>Decode error. Valid for SM-2000 only.</td>
</tr>
<tr>
<td>DLOPE</td>
<td>Dual link interface (DLI) 0 parity error. Not valid for SM-2000.</td>
</tr>
<tr>
<td>DLIOI</td>
<td>Data link 0 interrupt. Not valid for SM-2000.</td>
</tr>
<tr>
<td>IAC0</td>
<td>DLI0 illegal access error. Not valid for SM-2000.</td>
</tr>
<tr>
<td>IAC1</td>
<td>DLI 1 illegal access error. Not valid for SM-2000.</td>
</tr>
<tr>
<td>LPVER</td>
<td>Bus lock violation. Valid for SM-2000 only.</td>
</tr>
<tr>
<td>MADPE</td>
<td>Address parity error.</td>
</tr>
<tr>
<td>MCINT</td>
<td>Resets in the mate controller.</td>
</tr>
<tr>
<td>MH0IN</td>
<td>Message handler 0 interrupt. Valid for SM-2000 only.</td>
</tr>
<tr>
<td>MH1IN</td>
<td>Message handler 1 interrupt. Valid for SM-2000 only.</td>
</tr>
<tr>
<td>MH2IN</td>
<td>Message handler 2 interrupt. Valid for SM-2000 only.</td>
</tr>
<tr>
<td>MIOIO</td>
<td>I/O invalid operation error.</td>
</tr>
<tr>
<td>MIOLE</td>
<td>I/O timer lock error.</td>
</tr>
<tr>
<td>MIOTO</td>
<td>I/O timer time out error.</td>
</tr>
<tr>
<td>MIOUE</td>
<td>I/O unlock error.</td>
</tr>
<tr>
<td>MPRIN</td>
<td>Maintenance interrupts in the mate MCTSI.</td>
</tr>
<tr>
<td>MRDYT</td>
<td>Ready time out.</td>
</tr>
<tr>
<td>MRSPEERR</td>
<td>Multiple response error. Valid for MCTU2 and SM-2000 only.</td>
</tr>
<tr>
<td>MRPWP</td>
<td>Read or write parity error.</td>
</tr>
<tr>
<td>MWPER</td>
<td>Write protect error. For SM-2000, inhibiting this error will not inhibit all write protect errors because they are not all inhibitable.</td>
</tr>
<tr>
<td>NCBERR</td>
<td>Non-correctable bit error. Valid for SM-2000 only.</td>
</tr>
<tr>
<td>OXUxIN</td>
<td>OXU interrupts where &quot;x&quot; is the OXU number (1 - 8). Valid for SM-2000 only.</td>
</tr>
<tr>
<td>PIINT</td>
<td>Packet interface (PI) interrupt.</td>
</tr>
<tr>
<td>PUMPHW</td>
<td>Pump hardware errors. Valid for MCTU2, MCTU3, and SM-2000 only.</td>
</tr>
<tr>
<td>REFE</td>
<td>Dynamic RAM refresh fail error. Valid for SM-2000 only.</td>
</tr>
<tr>
<td>SSYNC</td>
<td>Scanned I/O sync error. Valid for SM-2000 only.</td>
</tr>
<tr>
<td>TSIIN</td>
<td>Time-slot interchange (TSI) interrupt. For SM-2000, this will also inhibit interrupts from network link interfaces (NLIs).</td>
</tr>
<tr>
<td>TSI4IN</td>
<td>TSI model four interrupt. Inhibiting this bit will not affect the inhibits for NLIs. Use this if you want to inhibit only TSI interrupts. Valid for SM-2000 only.</td>
</tr>
<tr>
<td>XCDUXIN</td>
<td>XCDU interrupt where x is the XCDU number. Inhibiting this interrupt will result in inhibiting all interrupts for the requested XCDU including the interrupts from the CIs in that XCDU. Valid for SM-2000 only.</td>
</tr>
</tbody>
</table>
XLCKM = XCDCLs (electrical control and data control link) or OCDCLs (optical control and data control link) loss of clock interrupt.

4. SYSTEM RESPONSE

PF = Printout follows. Followed by the INH:HDW-MCTSI output message.

RL = Retry later. The message cannot be processed, so try the message again later. This response will be output if the AM cannot communicate with the requested SM/SM-2000.

5. REFERENCES

Input Message(s):

ALW: HDW-MCTSI
OP: OFFNORM-SM

Output Message(s):

INH: HDW-MCTSI
OP: OFFNORM-SM

Input Appendix(es):

APP: RANGES

Other Manual(s):
235-105-250 System Recovery Procedures
INH:HDW-MCTSI-C

Software Release: 5E16(2) and later
Command Group: SM
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Requests that a hardware check be inhibited in a module controller/time-slot interchange unit (MCTSI).

WARNING: Inhibiting ALL disables all hardware error detection circuitry, puts the processor into a slow state, and disables the cache memory. This will result in degraded switching module (SM) performance. Inhibiting ALL has no performance impact on SMs with the module controller/time slot interchange unit 3 (MCTU3) or SM-2000s.

2. FORMAT

INH:HDWCHK,MCTSI=a-b,c;

3. EXPLANATION OF MESSAGE


b = Module controller number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

c = Keyword that specifies inhibit bit names.

If the keyword is invalid for the specified SM/SM-2000, the request will be denied with the message STOPPED REQUEST NOT ALLOWED.

Valid value(s):

ALL = All module controller maintenance errors. Refer to the service degradation warning.

AFFCI = Active flip-flop cleared interrupt. Valid for SMs with the MCTU3 and in SM-2000s.

ARPV = Arbitration protocol violation error. Valid for SM-2000 only.


CACHE = Cache errors. Inhibiting CACHE on SM-2000s with cache inhibits the interrupts source while on non-SM-2000s with caches it disables the cache area as well, which slows down the operation of the processor. This option is only valid for SMs with the module controller/time slot interchange unit 2 (MCTU2), the extended memory addressing (EMA) 20 or SM-2000s equipped with a CORE60 or CORE700 processor pack.

CADPR = Memory address mismatch error. Valid for SM-2000 only.

CBERR = Correctable bit error. Inhibiting this error will degrade processor performance. Inhibiting this error has no performance impact on SM-2000 or MCTU3.

CI0IN and CI00IN = Control interface (CI) 0 interrupt.

CI1IN and CI01IN = CI 1 interrupt.
CI2IN and CI02IN = CI 2 interrupt. Valid for SM-2000 only.
CI3IN and CI03IN = CI 3 interrupt. Valid for SM-2000 only.
CIxyN = CI interrupt in an electrical extended control and data unit (XCDU) or optical extended control and data unit (OXU) shelf where “x” is the XCDU/OXU number and "y" is the CI number. x is 0 for local CIs and 1 - 8 for XCDU/OXU, y is the CI number which is 0 - 3 for local and 0 - 2 for XCDU/OXU Valid for SM-2000 only.
CPINT = Enhanced central processor intervention interrupt.
DCODE = Decode error. Valid for SM-2000 with CORE60 only.
DL0PE = Dual link interface (DLI) 0 parity error. Not valid for SM-2000.
DLIOI = Data link 0 interrupt. Not valid for SM-2000.
DLI1I = Data link 1 interrupt. Not valid for SM-2000.
IAC0 = DLI0 illegal access error. Not valid for SM-2000.
IAC1 = DLI 1 illegal access error.
LOSUI = Update interface loss of synchronization. Valid for SM-2000 with CORE700 only.
LPVER = Bus lock violation. Valid for SM-2000 with CORE60 only.
MADPE = Address parity error.
MCINT = Resets in the mate controller.
MH0IN = Message handler 0 interrupt. Valid for SM-2000 only.
MH1IN = Message handler 1 interrupt. Valid for SM-2000 only.
MH2IN = Message handler 2 interrupt. Valid for SM-2000 only.
MIOIO = I/O invalid operation error.
MIOLE = I/O timer lock error.
MIOTO = I/O timer time out error.
MIOUE = I/O unlock error.
MPRIN = Maintenance interrupts in the mate MCTSI.
MRDVT = Ready time out.
MRSPERR = Multiple response error. Valid for MCTU2 and SM-2000 only.
MRWPE = Read or write parity error.
MWPER = Write protect error. For SM-2000, inhibiting this error will not inhibit all write protect errors because they are not all inhibitable.
NCBERR = Non-correctable bit error. Valid for SM-2000 only.
OXUxIN = OXU interrupts where “x” is the OXU number (1 - 8). Valid for SM-2000 only.
PIINT = Packet interface (PI) interrupt.
PUMPHW = Pump hardware errors. Valid for MCTU2, MCTU3, and SM-2000 only.
REFE = Dynamic RAM refresh fail error. Valid for SM-2000 only.
SSYNC = Scanned I/O sync error. Valid for SM-2000 with CORE60 only.
TSIIN = Time-slot interchange (TSI) interrupt. For SM-2000, this will also inhibit interrupts from network link interfaces (NLIs).
TSI4IN = TSI model four interrupt. Inhibiting this bit will not affect the inhibits for NLIs. Use this if you want to inhibit only TSI interrupts. Valid for SM-2000 only.
XCDU\text{\textregistered}xIN = XCDU interrupt where x is the XCDU number. Inhibiting this interrupt will result in inhibiting all interrupts for the requested XCDU including the interrupts from the CIs and DIs in that XCDU. Valid for SM-2000 only.

XLCKM = Electrical control and data control links (XCDCL) or optical control and data control links (OCDCL) loss of clock interrupt.

4. SYSTEM RESPONSE

PF = Printout follows. Followed by the INH:HDW-MCTSI output message.

RL = Retry later. The message cannot be processed, so try the message again later. This response will be output if the AM cannot communicate with the requested SM/SM-2000.

5. REFERENCES

Input Message(s):

\begin{verbatim}
ALM:HDW-MCTSI
OP:OFFNORM-SM
\end{verbatim}

Output Message(s):

\begin{verbatim}
INH:HDW-MCTSI
OP:OFFNORM-SM
\end{verbatim}

Input Appendix(es):

\begin{verbatim}
APP:RANGES
\end{verbatim}

Other Manual(s):

235-105-250 System Recovery Procedures
INH:HDW-MMP

Software Release: 5E14 and later
Command Group: CM
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Requests that hardware error checks on the specified module message processor (MMP) be inhibited.

WARNING: Inhibiting hardware checks can prevent the system from recovering automatically from hardware faults in this unit.

2. FORMAT

INH:HDWCHK,MMP=a-b;

3. EXPLANATION OF MESSAGE

a = Message switch side. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

b = MMP logical identification number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

NG = No good. The message was invalid.

PF = Printout follows. Followed by the INH:HDWCHK output message.

5. REFERENCES

Input Message(s):

ALW:HDWCHK
OP:CFGSTAT

Output Message(s):

ALW:HDWCHK
INH:HDWCHK
OP:CFGSTAT
APP : RANGES

Other Manual(s):
235-105-250  System Recovery Procedures
INH:HDW-MSCU

Software Release: 5E14 and later
Command Group: CM
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Inhibits hardware checks (errors) on a message switch control unit (MSCU).

WARNING: Inhibiting hardware checks can prevent the system from recovering automatically from hardware faults in this unit.

2. FORMAT

INH:HDWCHK,MSCU=a;

3. EXPLANATION OF MESSAGE

a = MSCU side. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

NG = No good. May also include:
   - NO INHIBITS FOR CM1 MSCU = This office has communications module model 1 (CM1) hardware. The CM1 MSCU does not have hardware inhibits.
   - UNIT UNEQUIPPED = The specified unit is not equipped.

PF = Printout follows. A printout will follow when the requested action is completed.

5. REFERENCES

Input Message(s):

   ALW:HDW-MSCU
   OP:HDWCHK

Output Message(s):

   OP:HDWCHK

Input Appendix(es):

   APP:RANGES
INH:HDW-MSUCOM

Software Release: 5E14 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Inhibits the hardware error checks performed on the specified metallic service unit common (MSUCOM) board.

2. FORMAT

INH:HDWCHK,MSUCOM=a-b-c;

3. EXPLANATION OF MESSAGE

a = Switching module number.
b = Metallic service unit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
c = Service group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

Refer to the System Responses Table in the Input Messages User Guidelines.

5. REFERENCES

Output Message(s):

INH:HDW-MSUCOM

Input Appendix(es):

APP:RANGES
INH:HDW-NCREF-A

Software Release: 5E14 only
Command Group: CM
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Requests that hardware error checks be inhibited on the specified network clock reference (NCREF).

WARNING: Inhibiting hardware checks can prevent the system from recovering automatically from hardware faults in this unit.

2. FORMAT

INH:HDWCHK,NCREF,a=b;

3. EXPLANATION OF MESSAGE

a = Network clock reference (NCREF).

<table>
<thead>
<tr>
<th>Network clock type</th>
<th>'a'</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>NC1</td>
<td>PRIM</td>
<td>Primary reference.</td>
</tr>
<tr>
<td></td>
<td>SEC</td>
<td>Secondary reference.</td>
</tr>
<tr>
<td></td>
<td>XC</td>
<td>Cross-couple reference.</td>
</tr>
<tr>
<td>NC2</td>
<td>REFn</td>
<td>Reference number.</td>
</tr>
<tr>
<td></td>
<td>XC</td>
<td>Cross-couple reference.</td>
</tr>
</tbody>
</table>

b = Network clock side. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

NG = No good. The message syntax is valid, but the request conflicts with the current system or equipment status.

PF = Printout follows. Following by the INH:HDW-NCREF output message.

RL = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

Input Message(s):

ALW:HDW-NCREF
OP:CFGSTAT
Output Message(s):

ALW: HDW-NCREF
INH: HDW-NCREF
OP: CFGSTAT

Input Appendix(es):

APP: CM–IM–REASON
APP: RANGES

Other Manual(s):
235-105-110  System Maintenance Requirements and Tools
235-105-220  Corrective Maintenance

MCC Display Page(s):

1210 (MI/LI/NC)
1211 (NETWORK CLOCK)
INH:HDW-NCREF-B

Software Release: 5E15 and later
Command Group: CM
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Requests that hardware error checks be inhibited on the specified network clock reference (NCREF).

WARNING: Inhibiting hardware checks can prevent the system from recovering automatically from hardware faults in this unit.

2. FORMAT

INH:HDWCHK,NCREF,a=b;

3. EXPLANATION OF MESSAGE

a = Network clock reference (NCREF).

<table>
<thead>
<tr>
<th>Network clock type</th>
<th>'a' =</th>
</tr>
</thead>
<tbody>
<tr>
<td>NC1</td>
<td>PRIM = Primary reference.</td>
</tr>
<tr>
<td></td>
<td>SEC = Secondary reference.</td>
</tr>
<tr>
<td></td>
<td>XC = Cross-couple reference.</td>
</tr>
<tr>
<td>NC2</td>
<td>XC = Cross-couple reference.</td>
</tr>
</tbody>
</table>

b = Network clock side. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

NG = No good. The message syntax is valid, but the request conflicts with the current system or equipment status.

PF = Printout follows. Following by the INH:HDW-NCREF output message.

RL = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

Input Message(s):
ALW:HDW-NCREF
OP : CFGSTAT

Output Message(s):
INH:HDW-OFI

Software Release: 5E16(1) and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE
Requests that hardware checks be inhibited on an optical facility interface (OFI).

2. FORMAT
INH:HDWCHK,OFI=a-b-c-d;

3. EXPLANATION OF MESSAGE

a = Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

b = Optical interface unit (OIU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

c = Protection group (PG) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

d = Side number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

NG = No good. The message form is valid, but the request conflicts with the current status.

PF = Printout follows. Followed by the INH:HDW-OFI output message.

RL = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

Input Message(s):

ALW:HDW-OFI

Output Message(s):

INH:HDW-OFI

Input Appendix(es):

APP:RANGES

MCC Display Page(s):

1490 OIU STATUS
INH:HDW-ONTC

Software Release: 5E14 and later
Command Group: CM
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Inhibits the hardware error checks from being performed on the specified office network and timing complex (ONTC).

WARNING: Inhibiting hardware checks can prevent the system from recovering automatically from hardware faults in this unit.

2. FORMAT

INH:HDWCHK,ONTC=a;

3. EXPLANATION OF MESSAGE

a = Side of ONTC. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

NG = No good. The request has been denied. The message syntax is valid, but the request could not be processed. Refer to the APP:CM-IM-REASON appendix in the Appendixes section of the Input Messages manual for a list of possible reasons for denying the request.

PF = Printout follows.

RL = Retry later. The request cannot be executed now because the communication module (CM) deferred maintenance queue (DMQ) is full.

5. REFERENCES

Input Message(s):

ALW: HDW-ONTC
OP: CFGSTAT

Output Message(s):

ALW: HDW-ONTC
INH: HDW-ONTC
OP: CFGSTAT

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Input Appendix(es):

APP:CM-IM-REASON
APP:RANGES
INH:HDW-PCTDX

Software Release: 5E14 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE
Inhibits hardware checks on a peripheral control and timing data exchanger (PCTDX)

2. FORMAT
INH:HDWCHK,PCTDX=a-b-c;

3. EXPLANATION OF MESSAGE
a = Switch Module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

b = Peripheral control and timing data exchanger unit (PDXU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE
NG = No good. The request has been denied. The message form is valid, but the request conflicts with the current status.

PF = Printout follows. Followed by the INH:HDW-PCTDX output message.

RL = Retry later. The request cannot be executed now due to unavailable system resources.

c = Peripheral control and timing data exchanger (PCTDX) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

5. REFERENCES
Input Message(s):
ALW:HDW-PCTDX

Output Message(s):
INH:HDW-PCTDX

Input Appendix(es):
APP:RANGES

Other Manual(s):
235-105-110  System Maintenance Requirements and Tools
235-105-220  Corrective Maintenance

MCC Display Page(s):

1330,y (PDXU)
INH:HDW-PLTLK

Software Release: 5E15 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Requests that hardware checks be inhibited on a PCT (Peripheral Control and Timing) line and trunk unit link.

2. FORMAT

INH:HDWCHK,PLTLK=a-b-c-d;

3. EXPLANATION OF MESSAGE

a  = Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

b  = PLTU (PCT Line and Trunk Unit) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

c  = PCT Facility Interface number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

d  = PCT Facility Interface side number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

NG  = No good. May also include:
- REASON FOR NG = The message form is valid, but the request conflicts with current status.

PF  = Printout follows. An INH:HDW PLTLK output message follows.

RL  = Retry later. The request cannot be executed now due to unavailable system resource.

5. REFERENCES

Input Message(s):

ABT:PLTLK
DGN:PLTLK
STP:PLTLK
RMV:PLTLK
SW:PLTLK
ALW:HDW–PLTLK

Output Message(s):

INH:HDW–PLTLK
Input Appendix(es):

APP: RANGES

Other Manual(s):

235-105-110 System Maintenance Requirements and Tools
235-105-220 Corrective Maintenance

MCC Display Page(s):

1430 (PLTU Status page)
INH:HDW-PPC

Software Release: 5E14 and later
Command Group: CM
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Inhibits the hardware error checks performed on the specified pump peripheral controller (PPC).

WARNING: Inhibiting hardware checks can prevent the system from recovering automatically from hardware faults in this unit.

2. FORMAT

INH:HDWCHK,PPC=a;

3. EXPLANATION OF MESSAGE

a = PPC number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

NG = No good. The message was invalid.

PF = Printout follows. Followed by the INH:HDW-PPC output message.

5. REFERENCES

Input Message(s):

ALW:HDW-PPC
OP:CFGSTAT

Output Message(s):

INH:HDW-PPC

Input Appendix(es):

APP:RANGES
INH:HDW-PSUCOM-A

Software Release: 5E14 - 5E15
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Inhibits hardware checks on a packet switch unit (PSU) common controller (COM).

2. FORMAT

INH:HDWCHK,PSUCOM=a-b-c[-d];

3. EXPLANATION OF MESSAGE

a = Switching module (SM) number.
b = PSU number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
c = Service group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
c = Protocol handler number.

4. SYSTEM RESPONSE

NG = No good. The message form is valid, but the request conflicts with current status.
PF = Printout follows. Followed by the INH:HDW-PSUCOM output message.
RL = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

Input Message(s):
ALW:HDW-PSUCOM

Output Message(s):
INH:HDW-PSUCOM

Input Appendix(es):
APP:RANGES

MCC Display Page(s):
118x PSU SHELF
1186 PSU NETWORK
INH:HDW-PSUCOM-B
Software Release: 5E16(1) and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE
Inhibits hardware checks on a packet switch unit (PSU) common controller (COM).

2. FORMAT
INH:HDWCHK,PSUCOM=a-b-c[-d];

3. EXPLANATION OF MESSAGE
   a  = Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
   b  = PSU number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
   c  = Service group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
   d  = Protocol handler number.

4. SYSTEM RESPONSE
   NG  = No good. The message form is valid, but the request conflicts with current status.
   PF  = Printout follows. Followed by the INH:HDW-PSUCOM output message.
   RL  = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES
Input Message(s):
   ALW:HDW-PSUCOM

Output Message(s):
   INH:HDW-PSUCOM
   INH:HDW-PSUPH

Input Appendix(es):
   APP:RANGES

MCC Display Page(s):
118x,y PSU SHELF (where y=PSU number)
1186,y PSU NETWORK (where y=PSU number)
INH:HDW-PSUPH-A

Software Release: 5E14 - 5E15
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Inhibits hardware checks on a packet switch unit (PSU) protocol handler (PH).

2. FORMAT

INH:HDWCHK,PSUPH=a-b-c[-d];

3. EXPLANATION OF MESSAGE

a = Switching module (SM) number.
b = PSU number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
c = Shelf number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
d = Protocol handler number.

4. SYSTEM RESPONSE

NG = No good. The message form is valid, but the request conflicts with current status.
PF = Printout follows. Followed by the INH:HDW-PSUPH output message.
RL = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

Input Message(s):

ALW:HDW-PSUPH

Output Message(s):

INH:HDW-PSUPH

Input Appendix(es):

APP:RANGES

MCC Display Page(s):

118x PSU SHELF
1186 PSU NETWORK
INH:HDW-PSUPH-B

Software Release: 5E16(1) and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Inhibits hardware checks on a packet switch unit (PSU) protocol handler (PH).

2. FORMAT

INH:HDWCHK,PSUPH=a-b-c[-d];

3. EXPLANATION OF MESSAGE

a  = Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

b  = PSU number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

c–d = Shelf number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

c–d = Protocol handler number.

4. SYSTEM RESPONSE

NG  = No good. The message form is valid, but the request conflicts with current status.

PF  = Printout follows. Followed by the INH:HDW-PSUPH output message.

RL  = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

Input Message(s):

ALW:HDW-PSUPH

Output Message(s):

INH:HDW-PSUCOM
INH:HDW-PSUPH

Input Appendix(es):

APP:RANGES

MCC Display Page(s):
118x,y PSU SHELF (where y=PSU number)
1186,y PSU NETWORK (where y=PSU number)
INH:HDW-QGP

Software Release: 5E14 and later
Command Group: CM
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Requests that the hardware checks on the specified quad-link packet switch gateway processor (QGP) be inhibited. The children of the QGP are inhibited to some extent.

WARNING: Inhibiting hardware checks can prevent the system from recovering automatically from hardware faults in this unit.

2. FORMAT

INH:HDWCHK, QGP=a-b;

3. EXPLANATION OF MESSAGE

   a  = Message switch (MSGS) side number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

   b  = QGP number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

   NG  = No good. The request has been denied. The message syntax is valid, but the request could not be processed. Refer to the APP:CM-IM-REASON appendix in the Appendixes section of the Input Messages manual for a list of possible reasons for denying the request.

   FF  = Printout follows. Followed by the INH:HDW-QGP output message.

   RL  = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

Input Message(s):

   ALW : HDW-QGP
   OP : HDWCHK

Output Message(s):

   ALW : HDW-QGP
   INH : HDW-QGP
   OP : HDWCHK
Input Appendix(es):

APP:CM-IM-REASON
APP:RANGES

Other Manual(s):
235-105-110 System Maintenance Requirements and Tools
235-105-250 System Recovery Procedures

MCC Display Page(s):
1241/51 (MSGS COMMUNITIES 0-1, 8-9)
1240/50 (MSGS STATUS for CM3)
1380/1 (QLPS NETWORK 0/1 STATUS)
INH:HDW-RAF

Software Release: 5E14 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Inhibits hardware checks in a recorded announcement function (RAF) unit. The module software inhibits the indicated error source. The system requires an ALW message to allow the error source.

2. FORMAT

INH:HDWCHK, RAF=a-b;

3. EXPLANATION OF MESSAGE

a = Switching module (SM) number.

b = RAF unit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

NG = No good. The request has been denied because it conflicts with current equipment status. May also include:
- SM DOES NOT EXIST = The requested SM does not exist in the system.
- SM UNEQUIPPED = The SM specified in the request is unequipped.
- UNIT DOES NOT EXIST = The requested unit does not exist in the system.

PF = Printout follows. The request has been accepted. Followed by the INH:HDW-RAF output message.

RL = Retry later. The request cannot be executed now due to unavailable system resources. The message may be entered again later.

5. REFERENCES

Input Message(s):

ALW: HDW-RAF

Output Message(s):

ALW: HDW-RAF
INH: HDW-RAF

Input Appendix(es):
INH:HDW-RCL

Software Release: 5E14 and later  
Command Group: SM  
Application: 5  
Type: Input

1. PURPOSE

Requests that the hardware error checks performed on the specified remote communication link (RCL) be inhibited.

2. FORMAT

INH:HDWCHK,RCL=a-b-c-d;

3. EXPLANATION OF MESSAGE

a
  = Switching module number.

b
  = Digital line/trunk unit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

c
  = Digital facility interface number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

d
  = Facility number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

Refer to the System Responses Table in the Input Messages User Guidelines.

5. REFERENCES

Input Message(s): 
  INH:HDW-RCL

Input Appendix(es):
  APP:RANGES
INH:HDW-RCLK

Software Release: 5E14 and later  
Command Group: SM  
Application: 5  
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Inhibits hardware error checks from being performed on the specified remote clock (RCLK) circuit at the peripheral interface control bus (PICB) level. This message will also inhibit hardware checks from occurring on the mate remote clock cross couple (RCXC) if the RCXC is in service.

WARNING: Inhibiting hardware checks can prevent the system from recovering automatically from hardware faults in this unit.

2. FORMAT

INH:HDWCHK,RCLK=a-b;

3. EXPLANATION OF MESSAGE

a  = Switching module (SM) number.

b  = RCLK side. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

NG  = No good. May also include:
    - NG NOT STARTED UNIT IN GROWTH STATE
    - NG SM DOES NOT EXIST
    - NG SM UNEQUIPPED
    - NG UNIT DOES NOT EXIST

PF  = Printout follows. Followed by the INH:HDW-RCLK output message.

RL  = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

Input Message(s):

ALW: HDW-RCLK
ALW: HDW-RCXC
INH: HDW-RCXC
Output Message(s):

ALW : HDW−RCLK
ALW : HDW−RXC
INH : HDW−RCLK
INH : HDW−RCXC

Input Appendix(es):

APP : RANGES
INH:HDW-RCOSC

Software Release: 5E14 and later
Command Group: SM
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Inhibits hardware error checks from being performed on the specified remote clock oscillator (RCOSC) circuit. This message will also inhibit hardware checks from occurring on the associated remote clock oscillator cross couple (RCOXC) if the RCOXC is in service.

WARNING: Inhibiting hardware checks can prevent the system from recovering automatically from hardware faults in this unit.

2. FORMAT

INH:HDWCHK,RCOSC=a-b;

3. EXPLANATION OF MESSAGE

a = Switching module (SM) number.
b = RCOSC side.

4. SYSTEM RESPONSE

NG = No good. May also include:
   - NOT STARTED UNIT IN GROWTH STATE
   - SM DOES NOT EXIST
   - SM UNEQUIPPED
   - UNIT DOES NOT EXIST

PF = Printout follows. Followed by the INH:HDW-RCOSC output message.

RL = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

Input Message(s):

ALW:HDW-RCOSC
ALW:HDW-RCOXC
INH:HDW-RCOXC
Output Message(s):

- ALW: HDW-RCOSC
- ALW: HDW-RCOXC
- INH: HDW-RCOSC
- INH: HDW-RCOXC

Input Appendix(es):

- APP: RANGES
INH:HDW-RCOXC

Software Release: 5E14 and later
Command Group: SM
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Inhibits hardware error checks from being performed on the specified remote clock oscillator cross couple (RCOXC) circuit.

WARNING: Inhibiting hardware checks can prevent the system from recovering automatically from hardware faults in this unit.

2. FORMAT

INH:HDWCHK,RCOXC=a-b;

3. EXPLANATION OF MESSAGE

a = Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

b = RCOXC side. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

NG = No good. May also include:
   - NG UNIT DOES NOT EXIST
   - NOT STARTED UNIT IN GROWTH STATE
   - SM DOES NOT EXIST
   - SM UNEQUIPPED

PF = Printout follows. Followed by the INH:HDW-RCOXC output message.

RL = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

Input Message(s):

ALW:HDW-RCOSC
ALW:HDW-RCOXC

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Output Message(s):

ALW: HDW–RCOXC
INH: HDW–RCOXC

Input Appendix(es):

APP : RANGES
INH:HDW-RCREF

Software Release: 5E14 and later
Command Group: SM
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Inhibits hardware error checks from being performed on the specified remote clock reference (RCREF).

WARNING: Inhibiting hardware checks can prevent the system from recovering automatically from hardware faults in this unit.

2. FORMAT

INH:HDWCHK,RCREF=a-b;

3. EXPLANATION OF MESSAGE

\[ a \]
= Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

\[ b \]
= Equipped reference number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

\[ NG \]
= No good. The request has been denied because it conflicts with current equipment status. May also include:
  - NG UNIT DOES NOT EXIST = The requested unit does not exist in the system.
  - NOT STARTED UNIT IN GROWTH STATE
  - SM DOES NOT EXIST = The requested SM does not exist in the system.
  - SM UNEQUIPPED = The SM specified is unequipped.

\[ PF \]
= Printout follows. Followed by the INH:HDW-RCREF output message.

\[ RL \]
= Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

Input Message(s):

ALW:HDW-RCREF

Output Message(s):
ALW: HDW–RCREF
INH: HDW–RCREF

Input Appendix(es):

APP: RANGES
INH:HDW-RCXC

Software Release: 5E14 and later
Command Group: SM
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Inhibits hardware error checks from being performed on the specified remote clock cross couple (RCXC) circuit.

WARNING: Inhibiting hardware checks can prevent the system from recovering automatically from hardware faults in this unit.

2. FORMAT

INH:HDWCHK,RCXC=a-b;

3. EXPLANATION OF MESSAGE

a = Switching module (SM) number.

b = RCXC side. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

NG = No good. May also include:
   - NOT STARTED UNIT IN GROWTH STATE
   - SM DOES NOT EXIST
   - SM UNEQUIPPED
   - UNIT DOES NOT EXIST

PF = Printout follows. Followed by the INH:HDW-RCXC output message.

RL = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

Input Message(s):

ALW:HDW-RCXC
INH:HDW-RCLK

Output Message(s):
ALW: HDW–RCXC
INH: HDW–RCLK
INH: HDW–RCXC

Input Appendix(es):

APP: RANGES
INH:HDW-RDFI

Software Release: 5E14 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Inhibits the hardware error checks performed on the specified remote switching module (RSM) digital facilities interface (RDFI) circuit.

2. FORMAT

INH:HDWCHK,RDFI=a-b-c;

3. EXPLANATION OF MESSAGE

a = Switching module (SM) number.

b = Digital line and trunk unit (DLTU) number. Refer to the APP: RANGES appendix in the Appendixes section of the Input Messages manual.

c = RDFI number. Refer to the APP: RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

NG = No good. Request denied because of a conflict with current status.

PF = Printout follows. Followed by the INH:HDW-RDFI output message.

5. REFERENCES

Input Message(s):

ALW:HDW–RDFI

Output Message(s):

INH:HDW–RDFI

Input Appendix(es):

APP: RANGES
INH:HDW-RLI

Software Release: 5E14 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE
Inhibits the hardware error checks performed on the specified remote switching module (RSM) remote link interface (RLI) circuit.

2. FORMAT
INH:HDWCHK,RLI=a-b;

3. EXPLANATION OF MESSAGE
a = Switching module (SM) number.
b = RLI number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE
NG = No good. Request denied because of a conflict with current status.
PF = Printout follows. Followed by the INH:HDW-RLI output message.

5. REFERENCES
Input Message(s):
ALW:HDW-RLI

Output Message(s):
INH:HDW-RLI

Input Appendix(es):
APP:RANGES
INH:HDW-RRCLK

Software Release: 5E14 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE
Inhibits hardware checks in a remote integrated services line unit (RISLU) remote clock circuit pack (RRCLK). The system inhibits the hardware checks if internal status allows the transition. The system requires an ALW:HDW-RRCLK input message to enable the hardware checks.

2. FORMAT
INH:HDWCHK,RRCLK=a-b-c;

3. EXPLANATION OF MESSAGE
a = Switching module (SM) number.
b = RISLU number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
c = RRCLK side. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE
NG = No good. May also include:
   - CONFLICT WITH UNIT STATE
   - SM DOES NOT EXIST
   - SM UNEQUIPPED
   - UNIT DOES NOT EXIST
PF = Printout follows. Followed by the INH:HDW-RRCLK output message.
RL = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES
Input Message(s):
   ALW:HDW-RRCLK
Output Message(s):
   INH:HDW-RRCLK
Input Appendix(es):

APP : RANGES
INH:HDW-RVPT

**Software Release:** 5E14 and later  
**Command Group:** SM  
**Application:** 5  
**Type:** Input

1. **PURPOSE**

Inhibits the hardware error checks performed on the specified revertive pulsing transceiver (RVPT).

2. **FORMAT**

   INH:HDWCHK,RVPT=a-b-c-d;

3. **EXPLANATION OF MESSAGE**

   a = Switching module number.  
   b = Unit number.  
   c = Service group.  
   d = Circuit number.

4. **SYSTEM RESPONSE**

   NG = No good. The request has been denied. The message form is valid, but the request conflicts with current status.  
   PF = Printout follows. Output message will follow with completion status.  
   RL = Retry later. The request cannot be executed now due to unavailable system resources.

5. **REFERENCES**

   **Input Message(s):**
   
   ALW:HDW-RVPT
   
   **Output Message(s):**
   
   INH:HDW-RVPT
INH:HDW-SAS

Software Release: 5E14 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Inhibits hardware checks in a service announcement system (SAS) unit. The module software inhibits the indicated error source. The system requires an ALW message to allow the error source.

2. FORMAT

INH:HDWCHK,SAS=a-b;

3. EXPLANATION OF MESSAGE

a = Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

b = SAS unit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

NG = No good. The request has been denied because it conflicts with current equipment status. May also include:
   - SM DOES NOT EXIST = The requested SM does not exist in the system.
   - SM UNEQUIPPED = The SM specified in the request is unequipped.
   - UNIT DOES NOT EXIST = The requested unit does not exist in the system.

PF = Printout follows. The request has been accepted. Followed by the INH:HDW-SAS output message.

RL = Retry later. The request cannot be executed now due to unavailable system resources. The message may be entered again later.

5. REFERENCES

Input Message(s):

ALW:HDW–SAS

Output Message(s):

ALW:HDW–SAS
INH:HDW–SAS

Input Appendix(es):
INH:HDW-SDFI

Software Release: 5E14 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE
Inhibits the hardware error checks performed on the specified \textit{SLC\textsuperscript{\textregistered}96} digital facility interface (SDFI).

2. FORMAT
INH:HDWCHK,SDFI=a-b-c;

3. EXPLANATION OF MESSAGE

\begin{itemize}
  \item \texttt{a} = Switching module (SM) number.
  \item \texttt{b} = Digital carrier line unit (DCLU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
  \item \texttt{c} = SDFI number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
\end{itemize}

4. SYSTEM RESPONSE

\begin{itemize}
  \item \texttt{NG} = No good. The request has been denied. The message form is valid, but the request conflicts with current status.
  \item \texttt{PF} = Printout follows. The request was accepted. Followed by the INH:HDW-SDFI output message.
  \item \texttt{RL} = Retry later. The request cannot be executed now due to unavailable system resources.
\end{itemize}

5. REFERENCES

Output Message(s):

\texttt{INH:HDW-SDFI}

Input Appendix(es):

\texttt{APP:RANGES}
INH:HDW-SFI
Software Release: 5E14 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Requests that hardware checks be inhibited on a digital networking unit - synchronous optical network (DNU-S) synchronous transport signal electrical interface (STSX-1) facility interface (SFI).

2. FORMAT

INH:HDWCHK,SFI=a-b-c-d;

3. EXPLANATION OF MESSAGE

a = Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

b = DNU-S number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

c = Data group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

d = STSX-1 facility interface number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

NG = No good. The message form is valid, but the request conflicts with the current status.

PF = Printout follows. Followed by the INH:HDW-SFI output message.

RL = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

Input Message(s):

ALW:HDW-SFI

Output Message(s):

INH:HDW-SFI

Input Appendix(es):

APP:RANGES
MCC Display Page(s):

1510 (DNUS STATUS)
INH:HDW-SM

Software Release: 5E14 and later
Command Group: SM
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Requests that all hardware error checks be inhibited in one or more switching modules (SMs). This message has the effect of inhibiting all module controller/time slot interchange unit (MCTSI) interrupts, resets, maintenance service requests, and peripheral fault recovery actions for the selected SMs.

This inhibit will remain in effect through all processor initializations [except emergency action interface (EAI) input message 54] until manually allowed.

WARNING: Inhibiting hardware checks disables all hardware error detection circuitry, puts the processor in a slow state and disables the cache memory. This will result in degraded SM performance and will prevent the system from recovering automatically from its hardware faults.

The performance reduction is associated with degraded modes of the MCTSI; these are described in more detail under the INH:HDW-MCTSI message. ALW:HDW-MCTSI may be used to remove the performance effects (and allow certain errors) while keeping the overall SM hardware checks inhibited. The degree of performance reduction and its impact will vary with the SM type, equipage and load.

2. FORMAT

INH:HDWCHK,SM=a[&b][,LSM][,HSM][,RSM][,ORM][,TRM];

3. EXPLANATION OF MESSAGE

Note: Refer to the Acronym section of the Input Messages manual for the full expansion of acronyms shown in the format.

a = SM number, or lower limit of a range of SMs.

b = Upper limit of a range of SM numbers.

4. SYSTEM RESPONSE

IP = In progress. The message was accepted and the request is in progress. The state of the hardware checks can be determined by examining Master Control Center (MCC) page INH & RCVY CNTL.

NG = No good. The message was not accepted because an illegal SM number or range was specified.

5. REFERENCES

Input Message(s):
ALW: HDW-MCTS I
ALW: HDW-SM
INH: HDW-MCTS I
OP: SYSSTAT

Output Message(s):

INH: HDW-SM

Other Manual(s):
235-105-220  Corrective Maintenance
235-105-250  System Recovery

MCC Display Page(s):
1800,X (INH & RCVY CNTL)
INH:HDW-TAC

- **Software Release**: 5E14 and later
- **Command Group**: SM
- **Application**: 5
- **Type**: Input

1. **PURPOSE**
   
   Inhibits the hardware error checks performed on the specified test and access circuit (TAC).

2. **FORMAT**
   
   INH:HDWCHK,TAC=a-b-c;

3. **EXPLANATION OF MESSAGE**
   
   a = Switching module (SM) number.
   
   b = Trunk unit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
   
   c = Service group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. **SYSTEM RESPONSE**
   
   Refer to the System Responses Table in the Input Messages User Guidelines.

5. **REFERENCES**
   
   - **Output Message(s)**:
     
     INH:HDW-TAC
   
   - **Input Appendix(es)**:
     
     APP:RANGES
INH:HDW-TEN

Software Release: 5E14 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Inhibits the hardware error checks performed on the specified trunk equipment number (TEN) circuit.

2. FORMAT

INH:HDWCHK,TEN=a-b-c-d-e;

3. EXPLANATION OF MESSAGE

a = Switching module number.
b = Trunk unit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
c = Service group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
d = TEN board number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
e = TEN circuit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

Refer to the System Responses Table in the Input Messages User Guidelines.

5. REFERENCES

Input Appendix(es):

APP:RANGES
INH:HDW-TMUX

Software Release: 5E14 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Requests that hardware checks be inhibited on a digital networking unit - synchronous optical network (DNU-S) transmission multiplexer (TMUX).

2. FORMAT

INH:HDWCHK,TMUX=a-b-c-d;

3. EXPLANATION OF MESSAGE

a = Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

b = DNU-S number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

c = Data group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

d = TMUX number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

NG = No good. The message form is valid, but the request conflicts with the current status.

PF = Printout follows. Followed by the INH:HDW-TMUX output message.

RL = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

Input Message(s):

ALW: HDW-TMUX

Output Message(s):

INH: HDW-TMUX

Input Appendix(es):

APP: RANGES
MCC Display Page(s):

1510 (DNUS STATUS)
INH:HDW-TTFCOM

Software Release: 5E14 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Inhibits the hardware error checks performed on the specified transmission test facility common (TTFCOM) circuit pack.

2. FORMAT

INH:HDWCHK, TTFCOM=a-b-c-d;

3. EXPLANATION OF MESSAGE

a = Switching module number.
b = Digital service unit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
c = Service group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
d = Digital service circuit board number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

Refer to the System Responses Table in the Input Messages User Guidelines.

5. REFERENCES

Output Message(s):

   INH:HDW-TTFCOM

Input Appendix(es):

   APP:RANGES
INH:HDW-UCONF

Software Release: 5E14 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE
Inhibits the hardware error checks performed on the specified universal conference (UCONF) circuit board.

2. FORMAT
INH:HDWCHK,UCONF=a-b-c-d;

3. EXPLANATION OF MESSAGE

a = Switching module number.
b = Digital service unit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
c = Service group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
d = Digital service circuit board number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE
Refer to the System Responses Table in the Input Messages User Guidelines.

5. REFERENCES
Output Message(s):

INH:HDW-UCONF

Input Appendix(es):

APP:RANGES
INH:HDW-UTD

Software Release: 5E14 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Inhibits the hardware error checks performed on the specified universal tone decoder (UTD).

2. FORMAT

INH:HDWCHK, UTD=a-b-c-d;

3. EXPLANATION OF MESSAGE

a = Switching module (SM) number.

b = Digital service unit (DSU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

c = Service group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

d = DSU board position number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

Refer to the System Responses Table in the Input Messages User Guidelines.

5. REFERENCES

Output Message(s):

INH:HDW-UTD

Input Appendix(es):

APP: RANGES
INH:HDW-UTG

Software Release: 5E14 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Inhibits the hardware error checks performed on the specified universal tone generator (UTG).

2. FORMAT

INH:HDWCHK,UTG=a-b-c-d;

3. EXPLANATION OF MESSAGE

a = Switching module (SM) number.
b = Digital service unit (DSU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
c = Service group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
d = DSU board position number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

Refer to the System Responses Table in the Input Messages User Guidelines.

5. REFERENCES

Output Message(s):

INH:HDW-UTG

Input Appendix(es):

APP:RANGES
INH:HDWCHK

- **Software Release**: 5E14 and later
- **Command Group**: SYSRCVY
- **Application**: 5,3B
- **Type**: Input

**WARNING:** INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. **PURPOSE**

Request that the system status register be set such that a control unit (CU) switch is not implemented as a normal fault recovery action. This inhibits a switch to the standby administrative module (AM) control unit when a fault occurs in the active AM control unit.

**WARNING:** Inhibiting hardware checks can prevent the system from recovering automatically from hardware faults in the active CU.

2. **FORMAT**

INH:HDWCHK;

3. **EXPLANATION OF MESSAGE**

No variables.

4. **SYSTEM RESPONSE**

PF = Printout follows. Followed by the INH:HDWCHK output message.

5. **REFERENCES**

**Input Message(s):**

- ALW:HDWCHK
- INH:ERRCHK
- OP:ERRCHK

**Output Message(s):**

- ALW:HDWCHK
- INH:HDWCHK
- OP:ERRCHK
**INH:HIST**

**Software Release:** 5E14 and later  
**Command Group:** NOCHK  
**Application:** 5  
**Type:** Input

1. **PURPOSE**

Inhibits history recording for the terminal upon which it is entered. Subsequent input messages entered at the terminal will not be stored for recall. INH:HIST does not clear the input message history buffer.

Input messages that were previously stored in the input message history buffer will still be available for recall and edit, until a CLR:HIST is entered or the terminal is reinitialized.

INH:HIST can be used to prevent the storage of sensitive input messages. This gives insurance that such messages will not be recalled and entered into the system unintentionally. When the input messages being entered become non-sensitive, ALW:HIST can be entered to re-enable history recording.

2. **FORMAT**

INH:HIST

3. **EXPLANATION OF MESSAGE**

No variables.

4. **SYSTEM RESPONSE**

**OK**  
= OK. Input message was accepted and has been applied.

5. **REFERENCES**

Input Message(s):

- **ALW:HIST**  
- **CLR:HIST**  
- **OP:HIST**

Output Message(s):

- **OP:HIST**
INH:HWGRD

Software Release: 5E14 and later
Command Group: TRKLN
Application: 5
Type: Input

1. PURPOSE

Requests that the printing of a line removal message on the receive-only printer (ROP) be inhibited when a line unit, dial tone first (DTF) coin, or integrated services line unit (ISLU) Z-card (analog line) is placed out-of-service (OOS) maintenance (MTCE) high-and-wet (HW) ground (GRD).

2. FORMAT

INH:HWGRD[,SM=a&&b];

3. EXPLANATION OF MESSAGE

Note: Refer to the Acronym section of the Input Messages manual for the full expansion of acronyms shown in the format.

a = SM number or the lower limit of a range of SMs.

b = The upper limit of a range of SMs.

4. SYSTEM RESPONSE

NG = No good. The message was not recognized or acceptable.

PF = Printout follows. Followed by the INH:HWGRD output message.

5. REFERENCES

Input Message(s):

ALW:HWGRD

Output Message(s):

INH:HWGRD
ALW:HWGRD
INH:IMSMEAS

Software Release: 5E14 and later
Command Group: CCS
Application: 5
Type: Input

1. PURPOSE

Requests that the interprocess message switch (IMS) measurements inhibit flag be changed and displayed. If the IMS measurements inhibit flag is ON, the only IMS measurements which will be available are the IMS office measurements, the RPC node measurements, and the IMNPDIF, OOSCFG, OOSCFGT, OOSAU, OOSAUT, OOSMN, and OOSMNT IUN measurements.

2. FORMAT

INH:IMSMEAS:{ON|OFF|STATUS};

3. EXPLANATION OF MESSAGE

ON = Turn the inhibit ON, prohibiting collection and accumulation of certain IMS measurements.
OFF = Turn the inhibit OFF, permitting collection and accumulation of all IMS measurements.
STATUS = Display the current status of the inhibit flag.

4. SYSTEM RESPONSE

Refer to the System Responses Table in the Input Messages User Guidelines.

5. REFERENCES

Output Message(s):

INH:IMSMEAS

Other Manual(s):
235-190-120  Common Channel Signaling Service Features
INH:MDII-A

Software Release: 5E14 - 5E15
Command Group: MAINT
Application: 5
Type: Input

1. PURPOSE

Requests that the printing of a specific machine-detected interoffice irregularity (MDII) be suppressed. If the suppressed MDII occurs on the trunk group, no REPT:MDII output message will be generated.

2. FORMAT

INH:MDII=a,TG=b;

3. EXPLANATION OF MESSAGE

a = The MDII suppressed on a trunk group. Valid value(s):
   2SPDT = Partial dial timeout in the second stage of a traditional 2-stage international outbound call.
   2SPST = Permanent signal timeout in the second stage of a traditional 2-stage international outbound call.
   2SVCA = Vacant code in the second stage of a traditional 2-stage international outbound call.
   ABF  = Abandon failure.
   ACK  = No acknowledgment wink.
   ANF  = Failure to receive automatic number identification (ANI) digits on incoming LATA trunk.
   ANF2 = ANI collected by an operator following a failure to receive ANI digits on an incoming centralized automatic message accounting (CAMA) trunk.
   ANI  = Time-out waiting for far off-hook from Traffic Service Position System (TSPS) before sending ANI digits.
   AST  = Position acknowledge seizure signal time-out.
   ATO  = Time-out waiting for address complete signal.
   BAF  = Blocking acknowledgment failure.
   BLFCA= Blocking a fully coded addressed international outbound call routed to a non-CCS trunk.
   CAF  = Circuit reset acknowledgment failure.
   CAI  = Address incomplete received.
   CII  = Initial address message (IAM) irregularity (incoming).
   CKF  = Continuity check failure (incoming).
   COF  = Confusion received (outgoing).
   CQR  = Circuit query message (CQM) timed out while waiting for a circuit query reply (CQR) message.
   CRA  = Circuit reservation message (CRM) timer timed out while waiting for a circuit reservation acknowledgment (CRA) message.
   CRR  = Reset received (incoming).
   CTO  = Continuity timeout (incoming).
   CVN  = Vacant national number received (outgoing).
   DDF  = Delay dial, steady off-hook.
   DSN  = Delay dial, steady on-hook.
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<th>Description</th>
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<td>Extra pulse.</td>
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<td>Final closure abandon.</td>
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<td>FKP</td>
<td>False key pulse.</td>
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<td>FSA</td>
<td>False start abandon.</td>
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<td>Hardware group blocking acknowledgment failure.</td>
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<td>CRA timer timed out while waiting for an IAM.</td>
</tr>
<tr>
<td>ICA</td>
<td>Incoming advance.</td>
</tr>
<tr>
<td>IDIG</td>
<td>Invalid digit.</td>
</tr>
<tr>
<td>KPST</td>
<td>Received call on an equal access trunk which contains a KP + ST ANI sequence.</td>
</tr>
<tr>
<td>MCA</td>
<td>Misrouted CAMA.</td>
</tr>
<tr>
<td>MGBAF</td>
<td>Maintenance group blocking acknowledgment failure.</td>
</tr>
<tr>
<td>MGUAF</td>
<td>Maintenance group unblocking acknowledgment failure.</td>
</tr>
<tr>
<td>MPS</td>
<td>Misplaced start pulse.</td>
</tr>
<tr>
<td>MRF</td>
<td>Message refusal received (outgoing).</td>
</tr>
<tr>
<td>MTD</td>
<td>Mutilated digit.</td>
</tr>
<tr>
<td>NACK</td>
<td>No ground acknowledgment received on a ground start private facility (FX) trunk.</td>
</tr>
<tr>
<td>NKP</td>
<td>No key pulse.</td>
</tr>
<tr>
<td>NOANI</td>
<td>Received call on equal access trunk which contains no ANI information. This call will not be blocked.</td>
</tr>
<tr>
<td>ONOA</td>
<td>OSPS nature of address.</td>
</tr>
<tr>
<td>OSI</td>
<td>Operator services information.</td>
</tr>
<tr>
<td>PAT</td>
<td>Position attached signal time-out.</td>
</tr>
<tr>
<td>PDA</td>
<td>Partial dial abandon.</td>
</tr>
<tr>
<td>PDT</td>
<td>Partial dial time-out.</td>
</tr>
<tr>
<td>PFR</td>
<td>Polarity failure.</td>
</tr>
<tr>
<td>PST</td>
<td>Permanent signal time-out.</td>
</tr>
<tr>
<td>RLG</td>
<td>Release guard on unstable call (outgoing).</td>
</tr>
<tr>
<td>RST</td>
<td>Reset received (outgoing).</td>
</tr>
<tr>
<td>SGD</td>
<td>Failure to receive station group designator (SGD).</td>
</tr>
<tr>
<td>SSD</td>
<td>No second start dial wink.</td>
</tr>
<tr>
<td>TRR</td>
<td>Tip-ring reversal.</td>
</tr>
<tr>
<td>TTR</td>
<td>Operator trunk trouble reports.</td>
</tr>
<tr>
<td>UAF</td>
<td>Unblocking acknowledgment failure.</td>
</tr>
<tr>
<td>UCA</td>
<td>Unauthorized CAMA.</td>
</tr>
<tr>
<td>UQL</td>
<td>Unequipped label received (outgoing).</td>
</tr>
<tr>
<td>UXS</td>
<td>Unexpected stop.</td>
</tr>
<tr>
<td>VCA</td>
<td>Vacant code.</td>
</tr>
<tr>
<td>VPA</td>
<td>Voice path assurance timeout (outgoing).</td>
</tr>
<tr>
<td>WBF</td>
<td>Incoming wideband call spans facilities or trunk groups.</td>
</tr>
<tr>
<td>WSN</td>
<td>Wink start, steady on-hook.</td>
</tr>
<tr>
<td>WSR</td>
<td>Wink start, steady off-hook.</td>
</tr>
<tr>
<td>XST</td>
<td>Expected stop time-out.</td>
</tr>
</tbody>
</table>

\(\text{b}\) = Trunk group being suppressed.

### 4. SYSTEM RESPONSE
NA
= No acknowledgment. Request has not been acknowledged. It is probable that the request has been lost.

PF
= Printout follows. Request has been accepted. Followed by the INH:MDII output message identifying the results of the request.

5. REFERENCES

Input Message(s):

ALW:MDII
OP:MDII

Output Message(s):

INH:MDII
OP:MDII
REPT:MDII

Output Appendix(es):

APP:MDII

Other Manual(s):
235-070-100 Administration and Engineering Guidelines
INH:MDII-B

Software Release: 5E16(1) and later
Command Group: MAINT
Application: 5
Type: Input

1. PURPOSE

Requests that the printing of a specific machine-detected interoffice irregularity (MDII) be suppressed. If the suppressed MDII occurs on the trunk group, no REPT:MDII output message will be generated.

2. FORMAT

INH:MDII=a,TG=b;

3. EXPLANATION OF MESSAGE

a  = The MDII suppressed on a trunk group. Valid value(s):
    2SPDT  = Partial dial timeout in the second stage of a traditional 2-stage international outbound call.
    2SPST  = Permanent signal timeout in the second stage of a traditional 2-stage international outbound call.
    2SVCA  = Vacant code in the second stage of a traditional 2-stage international outbound call.
    ABF    = Abandon failure.
    ACK    = No acknowledgment wink.
    ANF    = Failure to receive automatic number identification (ANI) digits on incoming LATA trunk.
    ANF2   = ANI collected by an operator following a failure to receive ANI digits on an incoming centralized automatic message accounting (CAMA) trunk.
    ANI    = Time-out waiting for far off-hook from Traffic Service Position System (TSPS) before sending ANI digits.
    APMTO  = Application transport message time out.
    AST    = Position acknowledge seizure signal time-out.
    ATO    = Time-out waiting for address complete signal.
    BAF    = Blocking acknowledgment failure.
    BLFCA  = Blocking a fully coded addressed international outbound call routed to a non-CCS trunk.
    CAF    = Circuit reset acknowledgment failure.
    CAI    = Address incomplete received.
    CHRTO  = Connection Hold Release Request Timeout at the Originating Switch.
    CII    = Initial address message (IAM) irregularity (incoming).
    CKF    = Continuity check failure (incoming).
    C0F    = Confusion received (outgoing).
    CQR    = Circuit query message (CQM) timed out while waiting for a circuit query reply (CQR) message.
    CRA    = Circuit reservation message (CRM) timer timed out while waiting for a circuit reservation acknowledgment (CRA) message.
    CRR    = Reset received (incoming).
    CTO    = Continuity timeout (incoming).
    CVN    = Vacant national number received (outgoing).
    DDF    = Delay dial, steady off-hook.
<table>
<thead>
<tr>
<th>Code</th>
<th>Meaning</th>
</tr>
</thead>
<tbody>
<tr>
<td>DSN</td>
<td>Delay dial, steady on-hook.</td>
</tr>
<tr>
<td>EXD</td>
<td>Extra digit.</td>
</tr>
<tr>
<td>EXP</td>
<td>Extra pulse.</td>
</tr>
<tr>
<td>FCA</td>
<td>Final closure abandon.</td>
</tr>
<tr>
<td>FKP</td>
<td>False key pulse.</td>
</tr>
<tr>
<td>FSA</td>
<td>False start abandon.</td>
</tr>
<tr>
<td>HGBAF</td>
<td>Hardware group blocking acknowledgment failure.</td>
</tr>
<tr>
<td>HGUAF</td>
<td>Hardware group unblocking acknowledgment failure.</td>
</tr>
<tr>
<td>IAD</td>
<td>Incomplete address detected (incoming).</td>
</tr>
<tr>
<td>IAM</td>
<td>CRA timer timed out while waiting for an IAM.</td>
</tr>
<tr>
<td>ICA</td>
<td>Incoming advance.</td>
</tr>
<tr>
<td>IDIG</td>
<td>Invalid digit.</td>
</tr>
<tr>
<td>IPSIG</td>
<td>Internet protocol signal data error.</td>
</tr>
<tr>
<td>KPST</td>
<td>Received call on an equal access trunk which contains a KP + ST ANI sequence.</td>
</tr>
<tr>
<td>MCA</td>
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<td>MRF</td>
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</tr>
<tr>
<td>MTD</td>
<td>Mutilated digit.</td>
</tr>
<tr>
<td>NACK</td>
<td>No ground acknowledgment received on a ground</td>
</tr>
<tr>
<td>NCA</td>
<td>No circuit available. start private facility (FX) trunk.</td>
</tr>
<tr>
<td>NKP</td>
<td>No key pulse.</td>
</tr>
<tr>
<td>NOANI</td>
<td>Received call on equal access trunk which contains no ANI information. This call will not be blocked.</td>
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<td>ONOA</td>
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<td>XST</td>
<td>Expected stop time-out.</td>
</tr>
</tbody>
</table>

b = Trunk group being suppressed.
4. SYSTEM RESPONSE

NA = No acknowledgment. Request has not been acknowledged. It is probable that the request has been lost.

PF = Printout follows. Request has been accepted. Followed by the INH:MDII output message identifying the results of the request.

5. REFERENCES

Input Message(s):

ALW:MDII
OP:MDII

Output Message(s):

INH:MDII
OP:MDII
REPT:MDII

Output Appendix(es):

APP:MDII

Other Manual(s):

235-070-100  Administration and Engineering Guidelines
235-200-115  CNI Common Channel Signaling
235-200-116  Signaling Gateway Common Channel Signaling
INH:MISMATCH

Software Release: 5E14 and later
Command Group: TRKLN
Application: 5
Type: Input

1. PURPOSE

Requests that line card/network termination (NT) mismatch detection be inhibited on integrated services digital network (ISDN) lines equipped with U-cards. To be certain of the results of this message, the following three conditions should be noted.

First, INH:MISMATCH,REPT will only inhibit the printout on the receive-only printer (ROP) of the lines that have mismatches. INH:MISMATCH,REPT does not disable mismatch detection. Second, INH:MISMATCH without the report (REPT) option will inhibit mismatch detection but will leave reporting enabled if the INH:MISMATCH,REPT message isn't also entered. If mismatch detection is inhibited without inhibiting mismatch report, no output will be printed on the ROP, but printout on the ROP will automatically resume if the ALW:MISMATCH message is entered at a later time. Third, to inhibit the NT mismatch detection and the NT mismatch report for the entire office, set the office parameters to N, using Recent Change/Verify (RC/V) OFFICE PARAMETERS view 8.1 (OFFICE PARAMETERS).

NOTE: Inhibiting mismatch detection will prevent the OOS BLKD - DYGSPUS AUTO port status from being automatically updated to either the OOS BLKD - NTPWR AUTO or OOS BLKD - UINTF AUTO status. Refer to the APP:PORT-STATUS appendix in the Appendixes section of the Output Messages manual for more information on the OOS BLKD - DYGSPUS AUTO status.

2. FORMAT

INH:MISMATCH[,REPT][,SM=a[&&b]];

3. EXPLANATION OF MESSAGE

Note: Refer to the Acronym section of the Input Messages manual for the full expansion of acronyms shown in the format.

REPT = Inhibit the reporting on the ROP of the lines found to have mismatches.

a = SM number or the lower limit of a range of SM numbers.

b = The upper limit of a range of SM numbers.

4. SYSTEM RESPONSE

NG = No good. The message was not recognized or acceptable.

PF = Printout follows. Followed by the INH:MISMATCH output message.

5. REFERENCES

Input Message(s):
ALW:MISMATCH

Output Message(s):

INH:MISMATCH
ALW:MISMATCH

Output Appendix(es):

APP:PORT-STATUS

Other Manual(s):
235-105-220  Corrective Maintenance

RC/V View(s):

8.1 (OFFICE PARAMETERS)
INH:MON

**Software Release:** 5E14 and later  
**Command Group:** SFTUTIL  
**Application:** 5  
**Type:** Input

### 1. PURPOSE
Requests that the operating system for distributed switching (OSDS) monitor actions be inhibited.

The INH:MON messages deactivates the OSDS monitor by setting the monitor control word to zero. This is the first word of the OShisarray monitor buffer in the administrative module (AM) or the SIhistory monitor buffer in the switching module (SM) or the communications module processor (CMP).

### 2. FORMAT

```
INH:MON, {AM | SM=a | CMP=b-c};
```

### 3. EXPLANATION OF MESSAGE

Note: Refer to the Acronym section of the Input Messages manual for the full expansion of acronyms shown in the format.

- **a** = Switching module (SM) number.
- **b** = Message switch side. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
- **c** = Communications module processor (CMP) number.

### 4. SYSTEM RESPONSE

- **NG** = No good. Error in format.
- **PF** = Printout follows. Followed by the INH:MON output message.
- **RL** = Retry later. System resource shortage.

### 5. REFERENCES

**Input Message(s):**

- ALW:MON

**Output Message(s):**

- ALW:MON  
- INH:MON

**Input Appendix(es):**
INH:NMOUT-A

Software Release: 5E14 - 5E16(1)
Command Group: NMOC
Application: 5
Type: Input

1. PURPOSE
Requests that the printing of output messages stimulated by the remote network management center (RNMC) be inhibited.

2. FORMAT
INH:NMOUT[,TYPE=a];

3. EXPLANATION OF MESSAGE

\[ a \] = Message type. Valid value(s):
- CGAP = Call gapping code controls messages.
- DOC = Dynamic overload controls messages.
- SILC = Selective incoming load controls messages.
- SSTR = Service selective trunk reservation controls messages.
- TGC = Manual trunk group controls messages.
- TR = Trunk reservation controls messages.

The default is to inhibit all output messages resulting from RNMC actions.

4. SYSTEM RESPONSE

\[ \text{NG} \] = No good. May also include:
- INVALID REQUEST = The request has been denied. This office is not equipped to process the request entered.
- INVALID TYPE = The request has been denied. An invalid message type was entered.

\[ \text{OK} \] = Good. The inhibit was successful.

5. REFERENCES

Input Message(s):
ALW:NMOUT
OP:NMOUT

Other Manual(s):
235-190-115 \hspace{1em} Local and Toll System Features
INH:NMOUT-B

Software Release: 5E16(2) and later
Command Group: NMOC
Application: 5
Type: Input

1. PURPOSE

Requests that the printing of output messages stimulated by the remote network management center (RNMC) be inhibited.

NOTE: Total office clear output messages stimulated by the RNMC will not be inhibited.

2. FORMAT

INH:NMOUT[,TYPE=a];

3. EXPLANATION OF MESSAGE

a = Message type. Valid value(s):
   CGAP = Call gapping code controls messages.
   DOC  = Dynamic overload controls messages.
   SILC = Selective incoming load controls messages.
   SSTR = Service selective trunk reservation controls messages.
   TGC  = Manual trunk group controls messages.
   TR   = Trunk reservation controls messages.
   HTR  = Hard-to-reach controls messages.

The default is to inhibit all output messages resulting from RNMC actions.

4. SYSTEM RESPONSE

NG = No good. The request has been denied. May also include:
   - INVALID REQUEST = This office is not equipped to process the request entered.
   - INVALID TYPE = An invalid message type was entered.
   - FEATURE NOT AVAILABLE = The HTR feature is not available.

OK = Good. The inhibit was successful.

5. REFERENCES

Input Message(s):
   ALW:NMOUT
   OP:NMOUT

Other Manual(s):
   235-190-115   Local and Toll System Features
INH:PCTF

Software Release: 5E14 and later
Command Group: TRKLN
Application: 5
Type: Input

1. PURPOSE
Requests that the per-call test failure (PCTF) verbose mode be inhibited. Inhibiting the PCTF verbose mode on a switching module (SM) causes only the first and tenth occurrence of a PCTF type on a line to be reported daily. When the PCTF verbose mode is not inhibited (allowed), every PCTF occurrence will be reported in an individual REPT:PCTF report.

2. FORMAT
INH:PCTF,VERBOSE[,SM=a[&b]];

3. EXPLANATION OF MESSAGE
a = SM number or the lower limit of a range of SM numbers (default is all equipped SMs).
b = The upper limit of a range of SM numbers.

4. SYSTEM RESPONSE
NG = No good. The message was not recognized or acceptable.
PF = Printout follows. Followed by the INH:PCTF output message.

5. REFERENCES
Input Message(s):
   ALW:PCTF

Output Message(s):
   INH:PCTF
   ALW:PCTF
   REPT:PCTF
INH:PLNT24-A

Software Release: 5E14 - 5E16(2)
Command Group: MEAS
Application: 5
Type: Input

1. PURPOSE

Requests that the regularly scheduled 24-hour plant report be inhibited from printing to the ROP. The specified part(s) will not be printed until allowed by the ALW:PLNT24 input message.

2. FORMAT

INH:PLNT24:(a|ALL);

3. EXPLANATION OF MESSAGE

ALL = Inhibit all parts of the 24-hour plant report.

a = Name of report part to be inhibited. Valid value(s):
   PART1 = Service measurements.
   PART2 = Equipment performance.
   PART3 = Performance measurements.
   PART4 = Remote switching module (RSM) maintenance service and performance.
   PART5 = Trunk error analysis.
   PART6 = Interlata carrier measurements.
   PART7 = Network call denial.
   PART8 = RSM cluster measurements.
   PART9 = Integrated services digital network (ISDN) packet switching office totals.
   PART10 = Operator Services Position System (OSPS) processors counts.
   PART11 = ISDN office totals.
   PART13 = OSPS real-time rating query measures.
   PART14 = OSPS facility administration measures.
   PART15 = OSPS measurements.
   PART16 = OSPS interflow measures.
   PART17 = OSPS line information database (LIDB) measures.
   PART18 = OSPS customer account services (CAS).
   PART19 = Action control point (ACP) for software defined network.
   PART21 = Leased network action point
   PART22 = OSPS intercept measures.
   PART23 = OSPS customer account services release 3 signaling measures.
   PART24 = Machine detected inter-office irregularity (MDII) trunk group measurements.
   PART25 = ISDN user part (ISUP) office totals.
   PART26 = DS1 measurements.
   PART27 = Static proportionate bidding (PB) measurements.
   PART28 = OSPS international credit card validation (ICCV) measures by foreign database.
   PART29 = OSPS line applications for consumers (LAC) signaling measures.
   PART30 = OSPS originating line number screening (OLNS) measures.
   PART36 = Signaling link performance.
4. SYSTEM RESPONSE

NG = No good. May also include:
(b) = The request was made during the automatic preparation of the report. The message OP:PLNT24-NOT will follow.
  - DATA NOT AVAILABLE AT THIS TIME = Report is being generated and, therefore, manual requests are locked out, or the report has not generated since an initialization.

OK = Good. The part(s) was/were inhibited.

5. REFERENCES

Input Message(s):

ALW:PLNT24
OP:PLNT24
OP:ST-PLNT24

Output Message(s):

OP:PLNT24-ND
OP:PLNT24-PT01A
OP:PLNT24-PT01B
OP:PLNT24-PT02A
OP:PLNT24-PT02B
OP:PLNT24-PT03
OP:PLNT24-PT04
OP:PLNT24-PT05
OP:PLNT24-PT06
OP:PLNT24-PT07
OP:PLNT24-PT08
OP:PLNT24-PT09
OP:PLNT24-PT10
OP:PLNT24-PT10B
OP:PLNT24-PT11
OP:PLNT24-PT13
OP:PLNT24-PT14
OP:PLNT24-PT15
OP:PLNT24-PT16
OP:PLNT24-PT17
OP:PLNT24-PT18
OP:PLNT24-PT19
OP:PLNT24-PT21
OP:PLNT24-PT22
OP:PLNT24-PT23
OP:PLNT24-PT24
OP:PLNT24-PT25
OP:PLNT24-PT26
OP:PLNT24-PT27
OP:PLNT24-PT28
OP:PLNT24-PT29
OP:PLNT24-PT30
OP:PLNT24-PT36
INH:PLNT24-B

**Software Release:** 5E17(1) and later
**Command Group:** MEAS
**Application:** 5
**Type:** Input

1. **PURPOSE**

Requests that the regularly scheduled 24-hour plant report be inhibited from printing to the ROP. The specified part(s) will not be printed until allowed by the ALW:PLNT24 input message.

2. **FORMAT**

INH:PLNT24:{a|ALL};

3. **EXPLANATION OF MESSAGE**

ALL = Inhibit all parts of the 24-hour plant report.

a = Name of report part to be inhibited. Valid value(s):

- PART1 = Service measurements.
- PART2 = Equipment performance.
- PART3 = Performance measurements.
- PART4 = Remote switching module (RSM) maintenance service and performance.
- PART5 = Trunk error analysis.
- PART6 = Interlata carrier measurements.
- PART7 = Network call denial.
- PART8 = RSM cluster measurements.
- PART9 = Integrated services digital network (ISDN) packet switching office totals.
- PART10 = Operator Services Position System (OSPS) processors counts.
- PART11 = ISDN office totals.
- PART13 = OSPS real-time rating query measures.
- PART14 = OSPS facility administration measures.
- PART15 = OSPS measurements.
- PART16 = OSPS interflow measures.
- PART17 = OSPS line information database (LIDB) measures.
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- PART26 = DS1 measurements.
- PART27 = Static proportionate bidding (PB) measurements.
- PART28 = OSPS international credit card validation (ICCV) measures by foreign database.
- PART29 = OSPS line applications for consumers (LAC) signaling measures.
- PART30 = OSPS originating line number screening (OLNS) measures.
- PART36 = Signaling link performance.
- PART37 = ATM quality of service.
- PART38 = ATM quality of service for PSU to PSU connection.
4. SYSTEM RESPONSE

NG = No good. May also include:
(blank) = The request was made during the automatic preparation of the report. The message OP:PLNT24-NOT will follow.
- DATA NOT AVAILABLE AT THIS TIME = Report is being generated and, therefore, manual requests are locked out, or the report has not generated since an initialization.

OK = Good. The part(s) was/were inhibited.

5. REFERENCES

Input Message(s):
ALW:PLNT24
OP:PLNT24
OP:ST-PLNT24

Output Message(s):
OP:PLNT24-ND
OP:PLNT24-PT01A
OP:PLNT24-PT01B
OP:PLNT24-PT02A
OP:PLNT24-PT02B
OP:PLNT24-PT03
OP:PLNT24-PT04
OP:PLNT24-PT05
OP:PLNT24-PT06
OP:PLNT24-PT07
OP:PLNT24-PT08
OP:PLNT24-PT09
OP:PLNT24-PT10
OP:PLNT24-PT10B
OP:PLNT24-PT11
OP:PLNT24-PT13
OP:PLNT24-PT14
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OP:PLNT24-PT24
OP:PLNT24-PT25
OP:PLNT24-PT26
OP:PLNT24-PT27
OP:PLNT24-PT28
OP:PLNT24-PT29
OP:PLNT24-PT30
Other Manual(s):
235-070-100  Administration and Engineering Guidelines
INH:PLNTHR

Software Release: 5E14 and later
Command Group: MEAS
Application: 5
Type: Input

1. PURPOSE
Requests that the printing of the hourly plant report be inhibited.

2. FORMAT
INH:PLNTHR;

3. EXPLANATION OF MESSAGE
No variables.

4. SYSTEM RESPONSE
OK = Good. The request was accepted and completed.

5. REFERENCES
Input Message(s):

   ALW:PLNTHR
   OP:MEASTAT
   OP:PLNTHR

Output Message(s):

   OP:MEASTAT-CLCT

Other Manual(s):
235-070-100 Administration and Engineering Guidelines
INH:PM

Software Release: 5E17(1) and later
Command Group: MEAS
Application: 5
Type: Input

1. PURPOSE

Requests that performance monitoring (PM) session be inhibited.

2. FORMAT

[1] INH:PM,SESTYPE=a,SESID=b[&c];

________________________________________________________

[2] INH:PM,SESTYPE=a,PSALNK=d-e-f;

________________________________________________________

3. EXPLANATION OF MESSAGE

a = Type of performance monitoring session.
b = Session ID - lower limit session ID in a range of session IDs. The minimum session ID number is 1.
c = Upper limit session ID in a range of session IDs. The maximum session ID number is 1024.
d = Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
e = PSU number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
f = ATM link number. Range is 1-10.

4. SYSTEM RESPONSE

NG = No good. The request has been denied. The message form is valid but the request conflicts with current equipage or status.
PF = Printout follows. Followed by the INH:PM output message.
RL = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

Input Message(s):

ALW:PM

Output Message(s):

INH:PM
Input Appendix(es):

APP : RANGES

MCC Display Page(s):
1187.y,z  PSU/ATM LINKS STATUS (where y=PSU number and z=SM number)
INH:PSLT

Software Release: 5E14 and later
Command Group: CCS
Application: 5,CNI
Type: Input

1. PURPOSE

Requests that the inhibit for the periodic signaling link test (PSLT) be set, reset or reported. When the inhibit is 'ON' for any particular link, periodic signaling link tests for that link are not done. When the inhibit is 'OFF' periodic tests are run.

2. FORMAT

INH:PSLT={ALL|a-b}:c;

3. EXPLANATION OF MESSAGE

ALL = All links.

a = Group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

b = Member number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

c = Request type. Valid value(s):
OFF = The PSLT is allowed.
ON = The PSLT is inhibited.
STATUS = Reports the status of the links.

4. SYSTEM RESPONSE

PF = Printout follows. Followed by the INH:PSLT output message. For either the 'ON' or 'OFF' request the PSLT inhibit is conditioned according to the input request. When the 'STATUS' option is specified the system will output a report for the requested link(s).

5. REFERENCES

Output Message(s):

INH:PSLT

Other Manual(s):
235-190-120 Common Channel Signaling Services and Associated Signaling Service Feature

MCC Display Page(s):

118 (CNI RING STATUS PAGE)
INH:PUMP-SM

Software Release: 5E14 and later
Command Group: SYSRCVY
Application: 5
Type: Input

1. PURPOSE

Requests that the automatic pump of one or more switching modules (SMs) or a selected communication module processor (CMP) be inhibited on a major initialization (selective initialization or full initialization).

This inhibit will remain in effect through all processor initializations (with the exception of emergency action interface (EAI) input message 54) until manually allowed.

2. FORMAT

INH:PUMP,{CMP=a|SM=b [&&c] [,LSM|,HSM|,RSM|,ORM|,TRM]};

3. EXPLANATION OF MESSAGE

Note: Refer to the Acronym section of the Input Messages manual for the full expansion of acronyms shown in the format.

a = CMP number.
b = SM number, or the lower limit of a range of SM numbers.
c = Upper limit of the range of SM numbers.

4. SYSTEM RESPONSE

NG = No good. The message was not accepted because an illegal SM number or invalid range/type combination was specified. The message was not accepted because an illegal CMP number combination was specified.

OK = Good. The message was accepted and the action completed.

5. REFERENCES

Input Message(s):

ALW:PUMP-SM
OP:SYSSTAT

Other Manual(s):
235-105-220 Corrective Maintenance
235-105-250 System Recovery Procedures

MCC Display Page(s):

1800 (SM INH & RCVRY CNTL)
1850/1851 (CMP INH & RCVRY CNTL)
**INH:RBPSC-SM**

**Software Release:** 5E14 and later  
**Command Group:** ALARM  
**Application:** 5  
**Type:** Input

1. **PURPOSE**

Inhibits alarms from a single specific REMOTE building or miscellaneous alarm scan point.

2. **FORMAT**

INH:RBPSC=a:SM=b;

3. **EXPLANATION OF MESSAGE**

- \( a \) = Scan point number in bldg/misc group. as displayed on the master control center (MCC) remote alarms page. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

- \( b \) = Switching module (SM) number (must be module type that has remote alarm process active).

4. **SYSTEM RESPONSE**

- **NG** = No good. The request is invalid.

- **PF** = Printout follows. The request is being processed. Followed by the INH:RBPSC-SM output message.

- **RL** = Retry later. The system is unable to process the request at this time.

5. **REFERENCES**

**Output Message(s):**

- INH:RBPSC-SM

**Input Appendix(es):**

- APP:RANGES
INH:RC

Software Release: 5E14 and later
Command Group: ODD
Application: 5
Type: Input

1. PURPOSE

Requests that all office-dependent data (ODD) recent change (RC) activity be inhibited. All RC terminals must be logged off before executing this input message. This message should only be used during a retrofit, during a BKUP:ODD and for certain software update installations.

2. FORMAT

INH:RC;

3. EXPLANATION OF MESSAGE

No variables.

4. SYSTEM RESPONSE

PF = Printout follows.

5. REFERENCES

Input Message(s):

ALW:RC
BKUP:ODD
INH:CORC

Output Message(s):

INH:RC
INH:RCDLY
Software Release: 5E14 and later
Command Group: RCV
Application: 5
Type: Input

1. PURPOSE
Requests that all telephone activations of recent change delayed messages (RCDMs) be inhibited in the system.

2. FORMAT
INH:RCDLY;

3. EXPLANATION OF MESSAGE
No variables.

4. SYSTEM RESPONSE
OK = Good. The request was accepted.

5. REFERENCES
Input Message(s):

ALW:RCDLY
OP:RCDLY

Output Message(s):

REPT:RCDLY

Other Manual(s):

Where (x) is the release-specific version of the specified manual.

235-118-2xx Recent Change Procedures Batch Release
INH:RCLOG

Software Release: 5E14 and later
Command Group: MAINT
Application: 5
Type: Input

1. PURPOSE

Inhibits the logging of recent changes for all processors. This message should be used only when the logging of recent changes is causing a problem in the system but some recent changes must be entered in the system.

This message could cause inconsistent office dependent data. The recent changes that are not logged will be lost after a boot. This message does not affect customer-originated recent changes.

2. FORMAT

INH:RCLOG;

3. EXPLANATION OF MESSAGE

No variables.

4. SYSTEM RESPONSE

NG = No good. The input message is not valid.
OK = Good. The request was accepted.

5. REFERENCES

Input Message(s):

INH:CORCLOG-SM
INH:REORD

Software Release: 5E14 and later
Command Group: MEAS
Application: 5
Type: Input

1. PURPOSE

Requests that the collection of additional information for calls routed to reorder be terminated. Data collected since an ALW:REORD-SM will be reported on the receive-only printer (ROP) if the print option is specified.

2. FORMAT

INH:REORD[,PRINT];

3. EXPLANATION OF MESSAGE

No variables.

4. SYSTEM RESPONSE

NG = No good. Request was denied because the requested feature was not active.
OK = Good. Request was accepted.

5. REFERENCES

Input Message(s):

ALW:REORD-SM

Output Message(s):

REPT:REORD

Other Manual(s):
235-070-100 Administration and Engineering Guidelines
INH:REORG

Software Release: 5E14 and later
Command Group: ODD
Application: 5
Type: Input

1. PURPOSE

Inhibits automatic reorganization of database relations. This message will inhibit automatic reorganizations triggered by the SET:REORG scheduling mechanism and on-demand reorganizations triggered by the EXC:REORG input message. Relations needing reorganization are reported by the REPT:REORG output message.

2. FORMAT

INH:REORG;

3. EXPLANATION OF MESSAGE

No variables.

4. SYSTEM RESPONSE

OK = Good. The request was accepted.

5. REFERENCES

Input Message(s):

ALW:REORG
EXC:REOR
SET:REORG

Output Message(s):

REPT:REORG

Other Manual(s):
235-105-220 Data Base Maintenance and Repairs
INH:REPORT
Software Release: 5E14 and later
Command Group: CCS
Application: 5
Type: Input

1. PURPOSE
Requests the status or changes the value of the report inhibit flag. If the report's inhibit flag is ON, common network interface (CNI) measurement reports are inhibited.

2. FORMAT
INH:REPORT:a;

3. EXPLANATION OF MESSAGE

a = Type of request. Valid value(s):
OFF = Turn the inhibit OFF, allowing measurement reports.
ON = Turn the inhibit ON, prohibiting measurement reports.
STATUS = Display the current status of the inhibit flag.

4. SYSTEM RESPONSE
PF = Printout follows. Followed by the INH:REPORT output message.

5. REFERENCES
Input Message(s):
INH:IMSMEAS
INH:TRFC15
INH:TRFC30
OP:SMR

Output Message(s):
INH:REPORT

Other Manual(s):
235-120-190 Common Channel Signaling and Associated Signaling Service Features
INH:REX-AM-SM  
Software Release: 5E14 and later  
Command Group: MAINT  
Application: 5  
Type: Input  

1. PURPOSE  
Inhibits either one or all three test types of routine exercise of the hardware in the administrative module (AM) and  
switching modules (SMs). Routine exercises may be inhibited in the administrative module or in one switching  
module or in the AM and all SMs.  
This action is effective for only one routine exercise session. If the tests are in progress when this message is  
received, the tests are not stopped, but inhibit action is taken for the next session.  

2. FORMAT  
INH:REX[,{AM|,SM=a}][,b];  

3. EXPLANATION OF MESSAGE  
AM = Inhibits hardware exercise tests in the AM.  
a = The number of the switching module to be inhibited. Refer to the APP:RANGES appendix in the  
Appendixes section of the Input Messages manual.  
Note: If neither AM nor SM is specified, exercising of hardware in the AM and all the SMs  
is inhibited.  
b = Routine exercise test type to be inhibited (default is to inhibit all three test types). Valid value(s):  
DGN = Inhibit diagnostic exercises.  
ELS = Inhibit electronic loop segregation (ELS) exercises.  
FAB = Inhibit fabric exercise tests of grids.  

4. SYSTEM RESPONSE  
NG = No good. Wrong test type.  
OK = Good. Request is valid and accepted.  
RL = Retry later. System is in min-mode.  
Note: The results of this message can be verified by using the OP:REXINH input  
message.  
?I = General syntax error or invalid processor ID.  

5. REFERENCES  
Input Message(s):
INH:REX-CM-SM

Software Release: 5E14 and later
Command Group: MAINT
Application: 5
Type: Input

1. PURPOSE

Inhibits either one or all valid test types for routine exercise (REX) of the hardware in the communication module (CM) and in all switching modules (SMs) or in the CM or in a range of SMs.

2. FORMAT

INH:REX[{,CM|,SM=a[&b]}][,c];

3. EXPLANATION OF MESSAGE

a = Number of the SM for which REX is to be inhibited or lower limit of a range of module numbers.
b = Upper limit of a range of SMs requested to be inhibited.
c = Routine exercise test type to be inhibited (default is to inhibit all three test types). Valid value(s):
   DGN = Inhibit diagnostic exercise.
   ELS = Inhibit electronic loop segregation tests. This is not a valid test type for the CM.
   FAB = Inhibit fabric exerciser tests of grids. This is not a valid test type for the CM.

Note: If neither CM nor SM is specified, the default is to inhibit all test types for the CM and all SMs.

4. SYSTEM RESPONSE

NG = No good. The request was not a valid entry.
OK = Good. Request is valid and accepted.
RL = Retry later. SM is in an abnormal state. The request cannot be executed now.

5. REFERENCES

Input Message(s):
   ALW:REX-CM-SM
   OP:REXINH

Output Message(s):
   OP:REXINH

MCC Display Page(s):
1280, [REX STATUS (SM)]
1290, [REX STATUS (CM)]
INH:REX-UNIT-A

Software Release: 5E14 only
Command Group: MAINT
Application: 5
Type: Input

1. PURPOSE

Requests that the scheduling of a unit for routine exercise (REX) be inhibited in the communication module (CM) or in a switching module (SM). This applies only to diagnostic (DGN) tests.

2. FORMAT

INH:REX{,CM[,d[=c]]|,SM=a,b[=c]};

3. EXPLANATION OF MESSAGE

a = Number of the SM for which REX is to be inhibited.

b = The SM unit type to be inhibited. DGN tests are the only test types that may be inhibited on a unit basis. Valid value(s):
  ASC = Alarm service circuit.
  BTSR = Bootstrapper circuit.
  DCLU = Digital carrier line unit.
  DCTU = Directly connected test unit.
  DLTU = Digital line and trunk unit.
  DNUS = Digital networking unit - synchronous optical network (SONET) (DNU-S).
  GDSF = Global digital services function.
  GDSU = Global digital service unit.
  IDCU = Integrated digital carrier unit.
  ISLU = Integrated services line unit.
  ISTF = Integrated services test facility.
  LDSU = Local digital service unit.
  LU = Line unit.
  MCTSI = Module controller/time slot interchanger.
  MSU = Metallic service unit.
  MTIB = Metallic test interface bus.
  PSU = Packet switching unit.
  RAF = Recorded announcement frame.
  RAU = Remote answering unit.
  RCLK = Remote clock.
  RLI = Remote line interface.
  SAS = Service announcement system.
  TU = Trunk unit.

c = Unit number.

d = The CM unit type to be inhibited. If none specified all units inhibited. Valid value(s):
  MSGS = Message switch.
  ONTC = Office network timing complex.
4. SYSTEM RESPONSE

NG = No good. The request was not a valid entry.

OK = Good. Request is valid and accepted.

RL = Retry later. SM is in an abnormal state. The request cannot be executed now.

5. REFERENCES

Input Message(s):

ALW: REX–CM–SM
OP: REXINH

Output Message(s):

OP: REXINH

MCC Display Page(s):

1280 [REX STATUS (SM)]
1290 [REX STATUS (CM)]
INH:REX-UNIT-B

Software Release: 5E15 and later
Command Group: MAINT
Application: 5
Type: Input

1. PURPOSE

Requests that the scheduling of a unit for routine exercise (REX) be inhibited in the communication module (CM) or in a switching module (SM). This applies only to diagnostic (DGN) tests.

2. FORMAT

INH:REX{,CM[,d[=c]]|,SM=a,b[=c]};

3. EXPLANATION OF MESSAGE

a = Number of the SM for which REX is to be inhibited.

b = The SM unit type to be inhibited. DGN tests are the only test types that may be inhibited on a unit basis. Valid value(s):

- AIU = Access Interface Unit.
- ASC = Alarm service circuit.
- BTSR = Bootstrapper circuit.
- DCLU = Digital carrier line unit.
- DCTU = Directly connected test unit.
- DLTU = Digital line and trunk unit.
- DNUS = Digital networking unit - synchronous optical network (SONET) (DNU-S).
- GDSF = Global digital services function.
- GDSU = Global digital service unit.
- IDCU = Integrated digital carrier unit.
- ISLU = Integrated services line unit.
- ISTF = Integrated services test facility.
- LDSU = Local digital service unit.
- LU = Line unit.
- MCTSI = Module controller/time slot interchanger.
- MSU = Metallic service unit.
- MTIB = Metallic test interface bus.
- PSU = Packet switching unit.
- RAF = Recorded announcement frame.
- RAU = Remote answering unit.
- RCLK = Remote clock.
- RLI = Remote line interface.
- SAS = Service announcement system.
- TU = Trunk unit.
- PLTU = Peripheral line and trunk unit.
- IWG = Inter-working gateway.

c = Unit number.

d = The CM unit type to be inhibited. If none specified all units inhibited. Valid value(s):

- MSGS = Message switch.
4. SYSTEM RESPONSE

NG = No good. The request was not a valid entry.
OK = Good. Request is valid and accepted.
RL = Retry later. SM is in an abnormal state. The request cannot be executed now.

5. REFERENCES

Input Message(s):

ALW: REX-CM-SM
OP: REXINH

Output Message(s):

OP: REXINH

MCC Display Page(s):

1280 REX STATUS (SM)
1290 REX STATUS (CM)
INH:REX

Software Release: 5E14 and later
Command Group: MAINT
Application: 5,3B
Type: Input

1. PURPOSE

Requests that routine exercises (REX) be inhibited for one or more hardware communities by setting the REX temporary inhibit(s). A hardware community consists of a major device controller and its associated subdevices. If a hardware community has REX permanently inhibited, its REX temporary inhibit is not available.

Note: All routine exercises may be inhibited by using the INH:DMQ input message. The rex_inh flag will remain set until released with an ALW:DMQ or ALW:REX input message.

2. FORMAT

INH:REX [,a[=b]|ALL] ;

3. EXPLANATION OF MESSAGE

ALL = Set the temporary REX inhibits for all major community controllers that are not permanently inhibited from REX.

a = Unit name of a major community controller. Applications may add additional major controllers which may be inhibited by this message. Valid value(s):
   CU = Control unit.
   DCI = Dual serial channel/computer interconnect.
   IOP = Input/output processor.

If not specified, then routine exercises will be inhibited for all AM controllers.

b = Unit number. Refer to the APP:MEM-NUM-UNIT appendix in the Appendixes section of the Input Messages manual. If not specified, then all controllers with the specified unit name are inhibited.

4. SYSTEM RESPONSE

NG = No good. Routine exercises are permanently inhibited for the unit specified or for all the units specified.

OK = Good. Routine exercises are temporarily inhibited for the unit specified or for at least one of the unit is specified.

PF = Printout follows. Followed by the INH:REX output message.

RL = Retry later. The database manager or a database record could not be opened. Try again at a later time. If this persists, refer to the TECHNICAL ASSISTANCE portion of the INTRODUCTION section of the Input Messages manual.

?D = Data field error.
5. REFERENCES

Input Message(s):

ALM: DMQ
ALM: REX
INH: DMQ
OP: DMQ
OP: REXINH

Output Message(s):

INH: REX
OP: DMQ
OP: REXINH

Input Appendix(es):

APP: MEM–NUM–UNIT
INH:RMV

Software Release: 5E14 and later
Command Group: CCS
Application: 5
Type: Input

1. PURPOSE
Requests that the link removal inhibit flag be administered and displayed.

2. FORMAT
INH:RMV:{ON|OFF|STATUS};

3. EXPLANATION OF MESSAGE

OFF = Turn the inhibit off, permitting link removal for diagnostics.
ON = Turn the inhibit on, prohibiting link removal for diagnostics after link failure.
STATUS = Display the current status of inhibit flag.

4. SYSTEM RESPONSE
Refer to the System Responses table in the Input Messages User Guidelines.

5. REFERENCES
Output Message(s):

INH:RMV

Other Manual(s):
235-190-120 Common Channel Signaling Service Features

MCC Display Page(s):

118 (CNI FRAME AND CCS LINK STATUS)
INH:RPC

Software Release: 5E14 and later
Command Group: TRKLN
Application: 5
Type: Input

1. PURPOSE

The purpose of this input message is to inhibit routine port conditioning. Port conditioning is the process of determining the status of a port, and depending on the port type, setting the hardware and scanning registers to reflect that status.

2. FORMAT

INH:RPC[,SM=a[&b]];

3. EXPLANATION OF MESSAGE

a = SM number or the lower limit of a range of SMs. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

b = Upper limit of a range of SMs. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

Note: If no SM number or range is specified, all equipped and operational SMs will be inhibited.

4. SYSTEM RESPONSE

PF = Printout follows. The request has been accepted and is followed by the INH RPC output message.

NG = No good. The input message was not recognized or acceptable.

5. REFERENCES

Input Message(s):

ALW:RPC

Input Appendix(es):

APP:RANGES
INH:RT-FAC

Software Release: 5E14 and later
Command Group: SM
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Requests that protection (PROT) line switch requests to be performed on the specified remote terminal (RT) digital signal level one (DS1) facility (FAC) circuit be inhibited or requests that a DS1 currently on protection be taken off of protection.

Requests that a DS1, that is being protected, be inhibited from being released or coming off of protection. This message is applicable for RTs terminating on an integrated digital carrier unit (IDCU) or a digital carrier line unit (DCLU).

WARNING: If a DS1 is already on protection when the inhibit PROT input message is used, any calls on that DS1 will be dropped.

If a DS1 is on protection and RELEASE is inhibited, then a higher priority DS1 cannot go on protection until the RELEASE is allowed on the original DS1.

2. FORMAT

INH:RT,FAC=a-b,{PROT|RELEASE};

3. EXPLANATION OF MESSAGE

PROT = Inhibit switching from the specified DS1 FAC to the protection line (for use with the DCLU or the IDCU). Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

RELEASE = Inhibit the release of a DS1 from protection (for use with the IDCU only).

a = Site identification number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

b = DS1 FAC number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

NG = No good. The request has been denied. The message is valid but the request conflicts with current status.

PF = Printout follows. Followed by the INH:RT-FAC output message.

RL = Retry later. The request cannot be executed now due to unavailable system resources.
5. REFERENCES

Input Message(s):

\[ ALW: \text{RT-FAC} \]

Output Message(s):

\[ INH: \text{RT-FAC} \]

Input Appendix(es):

\[ APP: \text{RANGES} \]

Other Manual(s):

235-105-220  Corrective Maintenance
235-105-110  System Maintenance Requirements and Tools

MCC Display Page(s):

187x (IDCU FACILITY)
188xyy (IDCU REMOTE TERMINAL)
INH:RT-PROV-REPT

Software Release: 5E14 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Requests that the printing of remote terminal (RT) report messages at the Master Control Center (MCC) and the Switching Control Center (SCC) be inhibited. This message is applicable for RTs terminating on an Integrated Digital Carrier Unit (IDCU) or Digital Network Unit SONET (DNU-S).

2. FORMAT

INH:RT,PROV,REPT,{SM=a|SID=b|{IDCUR|DNUSRT}=a-c-d};

3. EXPLANATION OF MESSAGE

a = Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

b = Site identification (SID) number of the RT.

c = Unit number.

d = Local RT (LRT) number.

4. SYSTEM RESPONSE

OK = Good. The request was accepted and the requested action was completed.

NG = No good. The request has been denied. The message is valid but the request conflicts with current status.

RL = Retry later. The request cannot be executed now due to unavailable resources.

5. REFERENCES

Input Message(s):

ALW:RT-REPT
OP:RT-REPT

Output Message(s):

OP:RT-REPT

Input Appendix(es):

APP:RANGES
Other Manual(s):
235-105-220 Corrective Maintenance
235-105-110 System Maintenance Requirements and Tools

MCC Display Page(s):
188xyy (IDCU/DNU-S REMOTE TERMINAL)
INH:RT-REPT
Software Release: 5E14 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE
Requests that the printing of remote terminal (RT) report messages at the Master Control Center (MCC) and the Switching Control Center (SCC) be inhibited. This message is applicable for RTs terminating on an integrated digital carrier unit (IDCU) or a digital carrier line unit (DCLU) or a digital networking unit - synchronous optical network (DNU-S).

2. FORMAT
INH:RT,REPT;

3. EXPLANATION OF MESSAGE
No variables.

4. SYSTEM RESPONSE

OK = Good. The request was accepted and the requested action was completed.

NG = No good. The request has been denied. The message is valid but the request conflicts with current status.

RL = Retry later. The request cannot be executed now due to unavailable resources.

5. REFERENCES
Input Message(s):

   ALW:RT-REPT
   OP:RT-REPT

Output Message(s):

   OP:RT-REPT

Other Manual(s):
235-105-220   Corrective Maintenance
235-105-110   System Maintenance Requirements and Tools

MCC Display Page(s):

   1880,x.yy (IDCU REMOTE TERMINAL)
   1660,xxxx (TR303 REMOTE TERMINAL)
INH:RTMTBOVR

Software Release: 5E14 and later
Command Group: TRKLN
Application: 5
Type: Input

1. PURPOSE

Requests that metallic setup failure override be inhibited when the metallic test bus (MTB) is found to be open between the test bus control unit (TBCU) and the remote terminal (RT). If the MTB is really open and override is inhibited, metallic setup will fail. The system default is to allow metallic setup failure override.

This message will set an override flag in a switching module (SM) to the inhibit state. The flag can be set in one SM or in all SMs. If individual SMs are set differently, be aware that if the modular metallic service unit (MMSU) and RT are in different SMs a remote read of the flag stored in the RT SM is done from the MMSU SM. If the remote read fails, the default of the override flag will be that stored in the MMSU SM.

2. FORMAT

INH:RTMTBOVR[,SM=a[&b]];

3. EXPLANATION OF MESSAGE

Note: Refer to the Acronym section of the Input Messages manual for the full expansion of acronyms shown in the format.

a = SM number, or the lower limit of a range of SM numbers.

b = The upper limit of a range of SM numbers.

4. SYSTEM RESPONSE

NG = No good. The message was not recognized or acceptable.

PF = Printout follows. The request has been accepted and is followed by the INH:RTMTBOVR output message.

5. REFERENCES

Input Message(s):

ALW:RTMTBOVR
ALW:RTMTBPRT
INH:RTMTBPRT

Output Message(s):

ALW:RTMTBOVR
ALW:RTMTBPRT
INH:RTMTBOVR
INH:RTMTBPRT
INH:RTMTBPRT

Software Release: 5E14 and later
Command Group: TRKLN
Application: 5
Type: Input

1. PURPOSE

Requests that the printing of the REPTRMTBSID message be inhibited when the metallic test bus (MTB) fails the closed diode protocol test during metallic setup to a remote terminal (RT).

The system default is to allow the printing of this message. By inhibiting the printing of this message, the ability to see the cause of metallic setup failure will be lost. If, however, metallic setup override is allowed with the message ALW:RTMTBOVR, then it might be desirable not to have the message print. Consider carefully what configuration is desired in the office.

This message will set a print flag in a switching module (SM) or in all SMs. If individual SMs are set differently, be aware that if the modular metallic service unit (MMSU) and RT are in different SMs a remote read of the flag stored in the RT SM is done from the MMSU SM. If the remote read fails, the default of the print flag will be that stored in the MMSU SM.

2. FORMAT

INH:RTMTBPRT[,SM=a[&b]];

3. EXPLANATION OF MESSAGE

Note: Refer to the Acronym section of the Input Messages manual for the full expansion of acronyms shown in the format.

a = SM number, or the lower limit of a range of SM numbers.

b = The upper limit of a range of SM numbers.

4. SYSTEM RESPONSE

NG = No good. The message was not recognized or acceptable.

PF = Printout follows. The request has been accepted and is followed by the INH:RTMTBPRT output message.

5. REFERENCES

Input Message(s):

ALW:RTMTBOVR
ALW:RTMTBPRT
INH:RTMTBOVR

Output Message(s):
INH:RTRACK

Software Release: 5E14 and later
Command Group: CCS
Application: CNI
Type: Input

1. PURPOSE

Requests that entry into the ring tracker mode be inhibited.

2. FORMAT

INH:RTRACK;

3. EXPLANATION OF MESSAGE

No variables.

4. SYSTEM RESPONSE

IP = In progress.
NG = No good. The request was not accepted; reason will follow.
PF = Printout follows. Followed by an INH RTRACK output message. If accepted, any request to enter ring tracker mode will be rejected. A REPT:RING-CFR output message is output every 15 minutes until the ring tracker mode is allowed using the ALW:RTRACK input message.
RL = Retry later.

5. REFERENCES

Input Message(s):

ALW:RTRACK
EXC:RTRACK
OP:RTRACK
STOP:RTRACK

Output Message(s):

ALW:RTRACK
EXC:RTRACK
INH:RTRACK
OP:RTRACK
REPT:RING–CFR
STOP:RTRACK
INH:RUTIL

Software Release: 5E12 and later
Command Group: SFTUTIL
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Requests an inhibit of all the break points in the specified common network interface (CNI) node. The user is informed about the result of this operation.

The specified break point(s) remain inhibited (disabled) until enabled using the ALW:RUTIL or ALW:RUTILFLAG input messages or removed by the CLR:RUTIL or CLR:RUTILFLAG input messages.

WARNING: Incorrect use of this input message may interrupt operation of a node on the CNI ring or the whole CNI ring.

2. FORMAT

INH:RUTIL=a-b,AP;

3. EXPLANATION OF MESSAGE

Note: Refer to the Acronym section of the Input Messages manual for the full expansion of acronyms shown in the format.

a = Group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

b = Member number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

PF = Printout follows. Followed by the INH:RUTIL output message.

5. REFERENCES

Input Message(s):

ALW:RUTIL
ALW:RUTILFLAG
CLR:RUTIL
CLR:RUTILFLAG
DUMP:RUTIL
INH:RUTILFLAG
LOAD:RUTIL
OP:RUTIL
OP: RUTILFLAG
WHEN: RUTIL

Output Message(s):

ALW: RUTIL
ALW: RUTILFLAG
CLR: RUTIL
CLR: RUTILFLAG
DUMP: RUTIL
INH: RUTIL
INH: RUTILFLAG
LOAD: RUTIL
OP: RUTIL
OP: RUTILFLAG
REPT: RUTIL
WHEN: RUTIL

Input Appendix(es):

APP: RANGES

Other Manual(s):

235-105-110  System Maintenance Requirements and Tools
INH:RUTILFLAG

Software Release: 5E12 and later
Command Group: SFTUTIL
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Requests an inhibit of the specified break point in the specified common network interface (CNI) ring node. The user is informed about the result of this operation.

The specified break point(s) remain inhibited (disabled) until enabled using the ALW:RUTIL or ALW:RUTILFLAG input messages or removed by the CLR:RUTIL or CLR:RUTILFLAG input messages.

WARNING: Incorrect use of this input message may interrupt operation of a node on the CNI ring or the whole CNI ring.

2. FORMAT

INH:RUTILFLAG=a-b,AP:BP=c;

3. EXPLANATION OF MESSAGE

Note: Refer to the Acronym section of the Input Messages manual for the full expansion of acronyms shown in the format.

a = Group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

b = Breakpoint member number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

c = Specific breakpoint to be inhibited. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

PF = Printout follows. Followed by the INH:RUTILFLAG output message.

5. REFERENCES

Input Message(s):

ALW:RUTIL
ALW:RUTILFLAG
CLR:RUTIL
CLR:RUTILFLAG
DUMP:RUTIL
INH:RUTIL
LOAD: RUTIL
OP: RUTIL
OP: RUTILFLAG
WHEN: RUTIL

Output Message(s):

ALW: RUTIL
ALW: RUTILFLAG
CLR: RUTIL
CLR: RUTILFLAG
DUMP: RUTIL
INH: RUTIL
INH: RUTILFLAG
LOAD: RUTIL
LOAD: RUTILFLAG
OP: RUTIL
OP: RUTILFLAG
REPT: RUTIL
WHEN: RUTIL

Input Appendix(es):

APP: RANGES

Other Manual(s):
235-105-110 System Maintenance Requirements and Tools
INH:S7ACK

Software Release: 5E15 and later
Command Group: TRK
Application: 5
Type: Input

1. PURPOSE

Inhibits the printing of the ISUP/BICC abnormal acknowledgement output message.

The abnormal acknowledgement output message was allowed following a system initialization.

2. FORMAT

INH:S7ACK;

3. EXPLANATION OF MESSAGE

No variables.

4. SYSTEM RESPONSE

PF = Printout follows. Followed by the INH:S7ACK output message.

OK = Request accepted. May also include:
   - ABNORMAL ACK REPT ALLREADY INHIBITED

5. REFERENCES

Input Message(s):

ALW:S7ACK
OP:S7ACK

Output Message(s):

ALW:S7ACK
OP:S7ACK
REPT:ABNORMAL-AT
INH:S7RPT

Software Release: 5E15 and later
Command Group: CCS
Application: 5
Type: Input

1. PURPOSE
Stops observation of SS7 messages, clears any previous observation scope and observation types, and inhibits any further observations.

2. FORMAT
INH:S7RPT;

3. EXPLANATION OF MESSAGE
No variables.

4. SYSTEM RESPONSE

   NG = No good. May also include:
   - FEATURE NOT AVAILABLE = The input message cannot be used in this office. The office should be upgraded.
   - S7RPT NOT ALLOWED = The ALW:S7RPT input message must be issued for INH:S7RPT input message to have any affect.
   - HARDWARE NOT OPERATIONAL = CCS is not available in the office.

   PF = Printout follows. Followed by the INH:S7RPT output message.

5. REFERENCES

Input Message(s):

   ALW:S7RPT
   EXC:S7RPT
   STP:S7RPT
   OP:S7RPT

Output Message(s):

   INH:S7RPT
   REPT:S7RPT
INH:S7XCHK

Software Release: 5E15 and later
Command Group: CCS
Application: 5
Type: Input

1. PURPOSE

Inhibit demand or automatic periodic PCI7GR cross check from running. Current running PCI7GR cross check will not be affected and will be able to finish.

2. FORMAT

INH:S7XCHK[,TYPE=a];

3. EXPLANATION OF MESSAGE

a = Demand PCI7GR cross check. Valid value(s):

PCI7GR

4. SYSTEM RESPONSE

OK = The message has been accepted. Valid value(s):
- PCI7GR CROSS CHECK INHIBITED = PCI7GR cross check has been inhibited.
- PCI7GR CROSS CHECK ALREADY INHIBITED = PCI7GR cross check was already inhibited.

5. REFERENCES

Input Message(s):

ALW:S7XCHK
EXC:S7XCHK
STP:S7XCHK
OP:S7XCHK

Output Message(s):

EXC:S7XCHK
INH:SCORPT

Software Release: 5E14 and later
Command Group: MAINT
Application: 5
Type: Input

1. PURPOSE

Requests that the reporting of information related to switch cutoff calls be inhibited.

2. FORMAT

INH:SCORPT;

3. EXPLANATION OF MESSAGE

No variables.

4. SYSTEM RESPONSE

OK = Good. The request has been received. No subsequent occurrences of switch cutoff calls will print the information report (REPT:SWITCH-CC).

5. REFERENCES

Input Message(s):

ALW:SCORPT

Output Message(s):

REPT:SWITCH-CC
INH:SCSD

Software Release: 5E14 and later
Command Group: AM
Application: 5,3B
Type: Input

1. PURPOSE

Requests that reporting of transitions of a scanner and signal distributor (SCSD) scan point be inhibited. Scan points can be identified by physical location (as in Format 1) or by logical address (as in Format 2).

2. FORMAT

[1] INH:SCSD:UNIT=a,PT=b[-b-b-b-b-b-b-b];


3. EXPLANATION OF MESSAGE

a = Member number of the SCSD unit. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

b = Physical scan point number on an SCSD. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

c = Name of the logical SCSD group. Valid value(s):
   FANACU0
   FANACU1
   PDF0
   PRSWCU0
   PRSWCU1
   PRSWIOP0
   PRSWIOP1
   PRSWDFC0
   PRSWDFC1
   PRSWMHD0
   PRSWMHD1
   PTSWMCR
   PTSWROP

d = Duplex point ID. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

e = Number of a point within a logical group. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

NG = No good. SCSD administrator process is not active; no communication with SCSD points is possible.
PF = Printout follows. Followed by the INH:SCSD output message.

RL = Retry later.

5. REFERENCES

Input Message(s):

ALW:SCSD
OP:SCSD
RMV:SCSDC
RST:SCSDC

Output Message(s):

ALW:SCSD
INH:SCSD
OP:SCSD
ORD:SCSD
REPT:FAN
REPT:SCSD
REPT:SCSDC
RMV:SCSDC
RST:SCSDC
INH:SFTCHK-SM

Software Release: 5E14 and later
Command Group: SYSRCVY
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Requests that all software error checks be inhibited in one or more switching modules (SMs), or a specified communication module processor (CMP). This inhibit prevents automatic recovery escalation.

This inhibit will remain in effect through all processor initializations (with the exception of emergency action interface (EAI) input message 54) until manually allowed.

WARNING: Inhibiting software checks can prevent the system from recovering automatically from software faults in this unit.

2. FORMAT

INH:SFTCHK,{CMP=a|SM=b[&c][,LSM][,HSM][,RSM][,ORM][,TRM]};

3. EXPLANATION OF MESSAGE

Note: Refer to the Acronym section of the Input Messages manual for the full expansion of acronyms shown in the format.

a = CMP number.

b = SM number, or lower limit of a range of SM numbers.
c = Upper limit of the range of SM numbers.

4. SYSTEM RESPONSE

NG = No good. The message was not accepted because an illegal SM number or range was specified. The message was not accepted because an illegal CMP number was specified.

OK = Good. The message was accepted and the action completed.

5. REFERENCES

Input Message(s):

ALW:SFTCHK
OP:SYSSTAT

Other Manual(s):

235-105-220 Corrective Maintenance

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MCC Display Page(s):

1800 (SM INH & RCVRY CNTL)
1850/1851 (CMP INH & RCVRY CNTL)
INH:SFTCHK

Software Release: 5E14 and later
Command Group: SYSRCVY
Application: 5,3B
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Request that the use of system initialization be inhibited when handling administrative module (AM) software errors.

WARNING: Inhibiting software checks can prevent the system from recovering automatically from software faults, data corruption, or overload conditions.

2. FORMAT

INH:SFTCHK;

3. EXPLANATION OF MESSAGE

No variables.

4. SYSTEM RESPONSE

PF = Printout follows. Followed by the INH:SFTCHK output message.

5. REFERENCES

Input Message(s):

ALW:SFTCHK
INH:ERRCHK
OP:ERRCHK

Output Message(s):

ALW:SFTCHK
INH:SFTCHK
OP:ERRCHK
INH:SLK

Software Release: 5E14 and later
Command Group: CCS
Application: 5
Type: Input

1. PURPOSE

Requests that the status of the alarm inhibit flag of a signaling link (SLK) be set, reset, or listed. The alarm inhibit flag is conditioned in accordance with the input request for the specified SLK or the current status of the flag is reported.

2. FORMAT

INH:SLK=a-b:c;

3. EXPLANATION OF MESSAGE

a = Group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

b = Member number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

c = Request type. Valid value(s):
OFF = The alarm inhibit is turned off. This allows all messages associated with a signaling link to be print.
ON = The alarm inhibit is turned on. This will allow only non-alarm messages to print for a signaling link.
STATUS = Requests the status of the alarm inhibit flag for the corresponding signaling link.

4. SYSTEM RESPONSE

PF = Printout follows.

5. REFERENCES

Output Message(s):

INH:SLK

Other Manual(s):

235-190-120   Common Channel Signaling Service Features

MCC Display Page(s):

118 (CNI RING STATUS)
1521 (SIGNALING LINK SUMMARY)
1522 (SIGNALING LINK)
INH:SRM

Software Release: 5E14 and later
Command Group: MEAS
Application: 5
Type: Input

1. PURPOSE
Requests that the reporting of software resource measurement information be inhibited for a switching module (SM).

2. FORMAT
INH:SRM, SM=a;

3. EXPLANATION OF MESSAGE
a = SM number.

4. SYSTEM RESPONSE
OK = The request has been accepted. Software resource measurement information will not be reported for the requested SM.

5. REFERENCES
Input Message(s):
ALW:SRM

Output Message(s):
OP:SRM

Other Manual(s):
235-070-100 Administration and Engineering Guidelines
235-145-100 Call Processing Description
INH:SSTR

Software Release: 5E14 and later
Command Group: NMOC
Application: 5
Type: Input

1. PURPOSE
Requests that a single service selective trunk reservation (SSTR) control be inhibited for a specified trunk group.

2. FORMAT
INH:SSTR,TG=a;

3. EXPLANATION OF MESSAGE
a = Trunk group (TG) number.

4. SYSTEM RESPONSE
PF = Printout follows. Followed by the INH:SSTR output message.
RL = Retry later. Valid value(s):
- RESOURCE SHORTAGE = The request could not be accepted because the necessary resources are not available.

5. REFERENCES
Input Message(s):
ALW:SSTR
OP:SSTR

Output Message(s):
INH:SSTR

Other Manual(s):
235-190-115 Local and Toll System Features

MCC Display Page(s):
130 (NM EXCEPTION)
INH:TCLRPT

Software Release: 5E14 and later
Command Group: MAINT
Application: 5
Type: Input

1. PURPOSE

Inhibits the reporting of information related to transient calls lost.

2. FORMAT

INH:TCLRPT;

3. EXPLANATION OF MESSAGE

No variables.

4. SYSTEM RESPONSE

OK = Good. The request has been received. All subsequent occurrences of transient calls lost will not print the information report (REPT:TRANSIENT-CL).

5. REFERENCES

Input Message(s):

ALW:TCLRPT

Output Message(s):

REPT:TRANSIENT-CL
INH:TOD

Software Release: 5E14 and later
Command Group: ODD
Application: 5
Type: Input

1. PURPOSE

Inhibits the display of time of day (TOD) data base update failure message.

2. FORMAT

INH:TOD,FAIL;

3. EXPLANATION OF MESSAGE

No variables.

4. SYSTEM RESPONSE

OK = Good. The request has been accepted.

5. REFERENCES

Input Message(s):

ALW:TOD

Output Message(s):

REPT:TOD-FAIL
INH:TR

Software Release: 5E14 and later
Command Group: NMOC
Application: 5
Type: Input

1. PURPOSE
Requests that a trunk reservation (TR) control be inhibited on a per trunk group basis.

2. FORMAT
INH:TR,TG=a;

3. EXPLANATION OF MESSAGE

\[ a \] = Trunk group (TG) number that has a TR control assigned.

4. SYSTEM RESPONSE

\[ PF \] = Printout follows. Followed by the INH:TR output message.

\[ RL \] = Retry later. Valid value(s):
- \[ RESOURCE SHORTAGE \] = The necessary resources are not available.

5. REFERENCES

Input Message(s):

ALW:TR
OP:TR

Output Message(s):

INH:TR

Other Manual(s):
235-190-101 Business and Residence Modular Features
235-190-115 Local and Toll System Features

MCC Display Page(s):
130 (NM EXCEPTION)
INH:TRACE

Software Release: 5E14 and later
Command Group: CCS
Application: 5
Type: Input

1. PURPOSE

Requests that the tracing mechanism be inhibited. The INH:TRACE and the ALW:TRACE input messages form the basic on/off mechanism for TRACE. When the INH:TRACE request is issued, TRACE will do nothing (except consume a certain amount of fixed overhead) until the ALW:TRACE request is issued.

A copy of the TRACE parameter settings is retained so that the user can re-activate TRACE without having to enter the parameters again. The parameter settings may be changed at any time through the SET:TRACE input message (whether tracing is allowed or inhibited).

Note: The interprocessor message switch (IMS) driver process must be running before trace updates can be sent to the node processors (NP).

2. FORMAT

INH:TRACE;

3. EXPLANATION OF MESSAGE

No variables.

4. SYSTEM RESPONSE

PF = Printout follows. Followed by the INH:TRACE output message.

5. REFERENCES

Input Message(s):

ALW:TRACE
OP:TRACE
SET:TRACE

Output Message(s):

ALW:TRACE
INH:TRACE
OP:TRACE
REPT:TRACE
SET:TRACE
INH:TRAP

Software Release: 5E14 and later
Command Group: CCS
Application: 5
Type: Input

1. PURPOSE

Requests that an active trap be temporarily suspended. Traps will be inhibited at the nodes for the specified identification numbers. The appropriate diagnostic/error messages will be printed. The amount of time a trap is suspended will not be included in the duration of the trap.

2. FORMAT

INH:TRAP={a[-a[-a[-a[-a]]]]|ALL};

3. EXPLANATION OF MESSAGE

ALL = Suspend all active traps.

a = Trap identification number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

PF = Printout follows. Followed by the INH:TRAP output message.

5. REFERENCES

Input Message(s):

ALW:TRAP
OP:TRAP
SET:TRAP
STOP:TRAP

Output Message(s):

INH:TRAP

Other Manual(s):
235-190-120 Common Channel Signaling Service Features

MCC Display Page(s):

118 (CNI FRAME AND CCS LINK STATUS)
INH:TRFC15
  Software Release: 5E14 and later
  Command Group: MEAS
  Application: 5
  Type: Input

1. PURPOSE
Requests that the 15-minute traffic report be inhibited from being output to the receive-only printer (ROP).

2. FORMAT
INH:TRFC15;

3. EXPLANATION OF MESSAGE
No variables.

4. SYSTEM RESPONSE
   OK = Good. The requested report has been inhibited.

5. REFERENCES
Input Message(s):
   ALW:TRFC15
   OP:MEASTAT
   OP:TRFC15

Output Message(s):
   OP:MEASTAT-PRNT

Other Manual(s):
235-070-100  Administration and Engineering Guidelines
INH:TRFC30

Software Release: 5E14 and later
Command Group: MEAS
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Requests the inhibition of the collection or outputting of the specified section of the 30-minute traffic report.

WARNING: If no section is specified, all sections will be inhibited.

2. FORMAT

INH:TRFC30, {CLCT|TRFCH|ROP} [:a|:ALL];

3. EXPLANATION OF MESSAGE

ALL = Inhibit all sections, regardless of whether they need IDs (default).

CLCT = Inhibit collection of specified section(s). Inhibiting collection of sections will automatically cause those sections to be inhibited for printing.

ROP = Inhibit output of specified section(s) to the receive-only printer.

TRFCH = Inhibit output of specified section(s) to the traffic channel.

a = Section that is to be inhibited. Refer to the APP:TRFC-SECTION appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

NG = No good. Valid value(s):
- CONFIGURATION NOT SUPPORTED. The section requested represents a configuration not present in this office.
- FEATURE NOT AVAILABLE The requested action failed; the feature required to process the request is not present in the switch.
- INCOMPLETE UNIT ID The identifiers entered incompletely specified a unit.
- NOT ALLOWED The inhibit request was for some unit or count not currently allowed but the section is still allowed.
- SECTION NOT INHIBITABLE FOR COLLECTION The section cannot be inhibited for data collection.
- SECTION NOT INHIBITABLE FOR PRINT The section cannot be inhibited for ROP/traffic channel.
- UNIT(S) NOT EXPLICITLY ALLOWED The previous input was "ALW:TRFC30,ROP,b", where "b" was the section name or ALL. Therefore, specific records cannot be inhibited. The section is allowed.
OK = Good. The section(s) were inhibited; however, section(s) that cannot be inhibited for collection remain allowed when an INH:TRFC30,CLCT,ALL is requested. If the request is to inhibit an individual section for collection and the section or identifiers are already inhibited, OK will be output. To determine which sections or identifiers remain allowed for collection use the OP:MEASTAT,CLCT input message.

PF = Printout follows. Followed by the INH:TRFC30 output message detailing which groups are inhibited or are invalid prints.

5. REFERENCES

Input Message(s):

ALW:TRFC30
OP:MEASTAT
OP:OFR-FORM
OP:ST-TRFC30
OP:TRFC30

Output Message(s):

ALW:ST-TRFC30
ALW:TRFC30
INH:TRFC30
OP:MEASTAT-CLCT
OP:MEASTAT-PRNT
OP:ST-TRFC30
OP:TRFC30-ND

Input Appendix(es):

APP:TRFC-SECTION

Output Appendix(es):

APP:TRFC-SECTION

Other Manual(s):
235-070-100 Administration and Engineering Guidelines
INH:TSESS

Software Release: 5E14 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Request to suspend subscriber line and instrument measurement (SLIM) routine mode test session.

2. FORMAT

INH:TSESS,SESS=a;

3. EXPLANATION OF MESSAGE

a = Identity of the test session to be suspended.

4. SYSTEM RESPONSE

NG = No good. Valid value(s):
   - TEST SESSION a ALREADY SUSPENDED OR WAITING
   - TEST SESSION a NOT ACTIVE
   - TEST SESSION a NOT DEFINED
   - TEST SESSION a SUSPEND IN PROGRESS

IP = In progress.

5. REFERENCES

MCC Display Page(s):
   162 (TESTSESSION STATUS)
INH:UMEM

Software Release: 5E14 and later
Command Group: SFTUTIL
Application: 5,3B
Type: Input

1. PURPOSE

Causes the generic access package (GRASP) transfer trace to stop monitoring the flow of execution. The transfer trace goes into the STOPPED state with successful completion of the message. This message can be called as an immediate action, or it can be used in the action list of a WHEN.

2. FORMAT

INH:UMEM;

3. EXPLANATION OF MESSAGE

No variables.

4. SYSTEM RESPONSE

IP = In progress. The message has been added to the WHEN action list.
NG = No good. No trace is defined.
PF = Printout follows. Followed by the INH:UMEM output message.
RL = Retry later or wait for the previous OP:UMEM or OP:UMEM;MCH to complete. The system is in an overload condition.

5. REFERENCES

Input Message(s):

ALW:UMEM
INIT:UMEM
OP:UTIL
WHEN:PID
WHEN:UID

Output Message(s):

INH:UMEM
OP:UTIL
INH:UT-CMP

Software Release: 5E14 and later
Command Group: SFTUTIL
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Requests that a specific generic utility WHEN clause in the communications module processor (CMP), or all such active clauses, be inhibited.

This message may be used together with any of the other CMP generic utility input messages. Refer to the References section of this message.

If this message is used together with other generic utility messages, the END:UT-CMP input message may be used to signal the end of the series of messages.

WARNING: The user takes responsibility for any effects on system operation that result from the use of this input message. Know the effects of the message before using it.

2. FORMAT

INH:UT:CMP=a, {MATE|PRIM}, {UTIL|UTILFLAG=b};

3. EXPLANATION OF MESSAGE

MATE = Execute this input message on the standby CMP.
PRIM = Execute this input message on the active CMP.
UTIL = Execute this input message on all of the WHEN clauses in the specified CMP.
a = CMP number.
b = The identification number of a specific WHEN clause which is to be inhibited. Must be a number from 0 to 127.

4. SYSTEM RESPONSE

Refer to the APP:UT-IM-REASON appendix in the Appendixes section of the Input Messages manual.

5. REFERENCES

Input Message(s):

ALW:UT-CMP
CLR:UT-CMP
COPY:UT-CMP
DUMP:UT-CMP
ELSE:UT-CMP
Output Message(s):

INH:UT-CMP

Input Appendix(es):

APP:UT-IM-REASON

Other Manual(s):
235-105-110  System Maintenance Requirements and Tools
INH:UT-MCTSI-PI

Software Release: 5E14 and later
Command Group: SFTUTIL
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Requests that a specific generic utility WHEN clause in the packet interface (PI) unit, or all such active clauses, be inhibited.

Note: This input message is only supported on PIs of the PI2 hardware type.

WARNING: The user is responsible for any effects on system operation that result from the use of this input message. Know the effects of the message before using it.

2. FORMAT

INH:UT:MCTSI=a-b,PI,{UTIL|UTILFLAG=c}{!|;}

3. EXPLANATION OF MESSAGE

UTIL = Execute this input message on all of the WHEN clauses in the specified PI.

a = Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

b = Side of the module controller/time-slot interchange (MCTSI). Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

c = The identification number of a specific WHEN clause which is to be inhibited. Must be a number from 0 to 127.

4. SYSTEM RESPONSE

Refer to the APP:UT-IM-REASON appendix in the Appendixes section of the Input Messages manual.

5. REFERENCES

Input Message(s):

ALW:UT-MCTSI-PI
CLR:UT-MCTSI-PI
COPY:UT-MCTSI-PI
DUMP:UT-MCTSI-PI
ELSE:UT-MCTSI-PI
END:UT-MCTSI-PI
EXC:UT-MCTSI-PI
IF:UT-MCTSI-PI
IF: UT-MCTSI-PE
LOAD: UT-MCTSI-PI
OP: UT-MCTSI-PI
WHEN: UT-MCTSI-PI

Input Appendix(es):

APP: RANGES
APP: UT-IM-REASON

Other Manual(s):
235-105-110 System Maintenance Requirements and Tools
235-600-400 Audits
INH:UT-PSUPH-A

Software Release: 5E14 - 5E15
Command Group: SFTUTIL
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Requests that a specific generic utility WHEN clause in the packet switch unit protocol handler (PSUPH), or all such active clauses, be inhibited.

Note: This input message is only supported on PSUPHs of the PH3/PH4 hardware type (that is, not PH2 hardware types).

This message may be used together with any of the other PSUPH generic utility input messages. Refer to the References section of this message.

If this message is used together with other generic utility messages, the END:UT-PSUPH input message may be used to signal the end of the series of messages.

WARNING: The user is responsible for any effects on system operation that result from the use of this input message. Know the effects of the message before using it.

2. FORMAT

INH:UT:PSUPH=a-b-c-d,{UTIL|UTILFLAG=e};

3. EXPLANATION OF MESSAGE

UTIL = Execute this input message on all of the WHEN clauses in the specified PSUPH.

a = Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

b = Unit number (always 0).

c = Shelf number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

d = Slot number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

e = The identification number of a specific WHEN clause which is to be inhibited. Must be a number from 0 to 127.

4. SYSTEM RESPONSE

Refer to the APP:UT-IM-REASON appendix in the Appendixes section of the Input Messages manual.
5. REFERENCES

Input Message(s):

ALW:UT-PSUPH
CLR:UT-PSUPH
COPY:UT-PSUPH
DUMP:UT-PSUPH
ELSE:UT-PSUPH
END:UT-PSUPH
EXC:UT-PSUPH
IF:UT-PSUPH
IF:UT-PSUPH-END
LOAD:UT-PSUPH
OP:UT-PSUPH
WHEN:UT-PSUPH

Output Message(s):

INH:UT-PSUPH

Input Appendix(es):

APP:UT-IM-REASON

Other Manual(s):
235-105-110 System Maintenance Requirements and Tools
235-600-400 Audits
INH:UT-PSUPH-B

Software Release: 5E16(1) and later
Command Group: SFTUTIL
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Requests that a specific generic utility WHEN clause in the packet switch unit protocol handler (PSUPH), or all such active clauses, be inhibited.

NOTE: This input message is not supported on PSUPHs of the PH2 hardware type and is supported on all others.

This message may be used together with any of the other PSUPH generic utility input messages. Refer to the References section of this message.

If this message is used together with other generic utility messages, the END:UT-PSUPH input message may be used to signal the end of the series of messages.

WARNING: The user is responsible for any effects on system operation that result from the use of this input message. Know the effects of the message before using it.

2. FORMAT

INH:UT:PSUPH=a-b-c-d, {UTIL|UTILFLAG=e}{!|;}

3. EXPLANATION OF MESSAGE

UTIL = Execute this input message on all of the WHEN clauses in the specified PSUPH.

a = Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

b = Packet Switching Unit (PSU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

c = Shelf number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

d = Slot number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

e = The identification number of a specific WHEN clause which is to be inhibited. Must be a number from 0 to 127.

4. SYSTEM RESPONSE

Refer to the APP:UT-IM-REASON appendix in the Appendixes section of the Input Messages manual.
5. REFERENCES

Input Message(s):

ALW:UT-PSUPH
CLR:UT-PSUPH
COPY:UT-PSUPH
DUMP:UT-PSUPH
ELSE:UT-PSUPH
END:UT-PSUPH
EXC:UT-PSUPH
IF:UT-PSUPH
IF:UT-PSUPH-END
LOAD:UT-PSUPH
OP:UT-PSUPH
WHEN:UT-PSUPH

Output Message(s):

INH:UT-PSUPH

Input Appendix(es):

APP:UT-IM-REASON

Other Manual(s):

235-105-110  System Maintenance Requirements and Tools
235-600-400  Audits
INH:UT-SM

Software Release: 5E14 and later
Command Group: SFTUTIL
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Requests that a specific generic utility WHEN clause in the switching module (SM), or all such active clauses, be inhibited.

This message may be used together with any of the other SM generic utility input messages. Refer to the References section of this message. If this message is used together with any of the other generic utility messages, the END:UT-SM input message may be used to signal the end of the series of messages.

WARNING: The user is responsible for any effects on system operation that result from the use of this input message. Know the effects of the message before using it.

2. FORMAT

INH:UT:SM=a[&b],{UTIL|UTILFLAG=c};

3. EXPLANATION OF MESSAGE

UTIL = Execute this input message on all of the WHEN clauses in the specified SM(s).

a = SM number or the lower limit of a range of SM numbers.

b = Upper limit of a range of SM numbers.

c = The identification number of a specific WHEN clause which is to be inhibited. Must be a number from 0 to 127.

4. SYSTEM RESPONSE

Refer to the APP:UT-IM-REASON appendix in the Appendixes section of the Input Messages manual.

5. REFERENCES

Input Message(s):

ALW:UT-SM
CLR:UT-SM
COPY:UT-SM
DUMP:UT-SM
ELSE:UT-SM
END:UT-SM
EXC:UT-SM
IF:UT-SM
IF:UT-SM-ENDIF
INH:UTIL

Software Release: 5E14 and later
Command Group: SFTUTIL
Application: 5,3B
Type: Input

1. PURPOSE

Disables (but leaves defined) all administrative module (AM) generic access package (GRASP) breakpoints. Inhibits the associated actions normally executed when the breakpoint conditions occur.

2. FORMAT

INH:UTIL;

3. EXPLANATION OF MESSAGE

No variables.

4. SYSTEM RESPONSE

IP = In progress. The request has been added to the WHEN action list.
NG = No good. No GRASP breakpoints are currently defined.
PF = Printout follows. Followed by the INH:UTIL output message.
RL = Retry later. The system is in an overload condition or completing the previous OP:UMEM request.

5. REFERENCES

Input Message(s):

ALW:UTIL
INH:UTILFLAG
OP:UMEM
OP:UTIL
WHEN:PID
WHEN:UID

Output Message(s):

INH:UTIL
OP:UTIL
1. PURPOSE

Disables (but leaves defined) a specific central processor (CP) generic access package (GRASP) breakpoint. Inhibits the associated actions that normally are executed when the breakpoint condition occurs.

Within a WHEN action list, the identifier ME can be used to refer to the breakpoint being defined, since the breakpoint number has not yet been assigned.

2. FORMAT

INH:UTILFLAG={a|ME};

3. EXPLANATION OF MESSAGE

ME = Used within a WHEN action list to refer to the breakpoint being defined.

a = Numeric identifier (one or more decimal digits) of the breakpoint to be disabled.

4. SYSTEM RESPONSE

IP = In progress. The message has been added to the WHEN action list.

NG = No good. Identifier does not correspond to a currently defined breakpoint.

PF = Printout follows. Followed by INH:UTILFLAG output message.

RL = Retry later. The system is in an overload condition or completing a previous OP:UMEM message.

5. REFERENCES

Input Message(s):

ALW:UTILFLAG
INH:UTIL
OP:UMEM
OP:UTIL
WHEN:PID
WHEN:UID

Output Message(s):

INH:UTILFLAG
OP:UTIL
WHEN:PID
WHEN:UID
35. INIT
INIT:AM-FPI

**Software Release:** 5E14 and later  
**Command Group:** SYSRCVY  
**Application:** 5  
**Type:** Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Requests an administrative module (AM) initialization of an application process at the specified level. The supported initialization level is a full process initialization (FPI) of a named UNIX® RTR Operating System application process (DAP).

WARNING: This input message will purge the requested process. Any activity currently in progress will be killed. This may result in other asserts or audits as the system cleans up.

2. FORMAT

INIT:AM,a,FPI;

3. EXPLANATION OF MESSAGE

**Note:** Refer to the Acronym section of the Input Messages manual for the full expansion of acronyms shown in the format.

<table>
<thead>
<tr>
<th>a</th>
<th>Identity of the selected DAP. Valid value(s):</th>
</tr>
</thead>
<tbody>
<tr>
<td>AMDW1</td>
<td>Automatic message accounting (AMA) disk writer kernel process 1.</td>
</tr>
<tr>
<td>AMDW2</td>
<td>AMA disk writer kernel process 2.</td>
</tr>
<tr>
<td>APDL</td>
<td>Application processor data link kernel process.</td>
</tr>
<tr>
<td>ASM</td>
<td>Administrative service module process.</td>
</tr>
<tr>
<td>OKP</td>
<td>Operational kernel process.</td>
</tr>
<tr>
<td>PUCR</td>
<td>Pump control supervisor process.</td>
</tr>
<tr>
<td>RINGMON</td>
<td>Common channel signaling ring monitor process.</td>
</tr>
<tr>
<td>SMDIMP</td>
<td>Switch maintenance (SM) deferred maintenance administration input message processor supervisor process.</td>
</tr>
<tr>
<td>SMKP</td>
<td>Switch maintenance kernel process (OSDS-SM).</td>
</tr>
<tr>
<td>SMP SM</td>
<td>SM power switch monitor process.</td>
</tr>
</tbody>
</table>

4. SYSTEM RESPONSE

**IP** = In progress. The message was accepted and the request is in progress.

**NG** = No good. The message was not accepted because an illegal initialization level or DAP was specified.

5. REFERENCES
Input Message(s):

STP: EXC-UPD

Output Message(s):

INIT: AM-LVL
INIT:AM-SPP-A

Software Release: 5E14 only
Command Group: SYSRCVY
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Requests an administrative module (AM) single process purge (SPP) initialization of a named application process running under either operational kernel process (OKP) or switch maintenance kernel process (SMKP). The named process ID (PID) may be either a system process or terminal process. Refer to the APP:PID-AM-OKP appendix for a list of the system process PIDs for OKP. Refer to the APP:PID-AM-SMKP appendix for a list of the system process PIDs for SMKP.

WARNING: This message will purge the requested process. Any activity currently in progress will be killed. This may result in other asserts or audits as the system cleans up.

2. FORMAT

INIT:AM,a,SPP,PID=b[-c];

3. EXPLANATION OF MESSAGE

Note: Refer to the Acronym section of the Input Messages manual for the full expansion of acronyms shown in the format.

a = Identity of the selected UNIX® RTR application process (DAP). Valid value(s):
   OKP = Operational kernel process.
   SMKP = Switch maintenance kernel process.

b = Number of the process to be purged. The process may be either a system process or a terminal process. If the PID refers to a terminal process, a uniqueness number must be included.

c = Uniqueness number of the specified terminal process PID (used only for a terminal process).

4. SYSTEM RESPONSE

NG = No good. The message was not accepted because valid values are:
   - INVALID PID = An illegal value for PID was specified.
   - PID NOT ACTIVE = The specified PID is no longer associated with an active process.

PF = Printout follows. The initialization request was accepted and is followed by the INIT:AM-LVL output messages.

5. REFERENCES
Output Message(s):

INIT:AM-LVL

Input Appendix(es):

APP:PID-AM-OKP
APP:PID-AM-SMKP

Other Manual(s):
235-105-220 Corrective Maintenance
235-105-250 System Recovery
INIT:AM-SPP-B

Software Release: 5E15 and later
Command Group: SYSRCVY
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Requests an administrative module (AM) single process purge (SPP) initialization of a named application process running under either operational kernel process (OKP) or switch maintenance kernel process (SMKP). The named process ID (PID) may be either a system process or terminal process. Refer to the APP:PID-AM-OKP appendix for a list of the system process PIDs for OKP. Refer to the APP:PID-AM-SMKP appendix for a list of the system process PIDs for SMKP.

WARNING: This message will purge the requested process. Any activity currently in progress will be killed. This may result in other asserts or audits as the system cleans up.

2. FORMAT

INIT:AM,a,SPP,PID=b[-c];

3. EXPLANATION OF MESSAGE

NOTE: Refer to the Acronym section of the Input Messages manual for the full expansion of acronyms shown in the format.

a = Identity of the selected UNIX® RTR application process (DAP). Valid value(s):
   OKP = Operational kernel process.
   SMKP = Switch maintenance kernel process.

b = Number of the process to be purged. The process may be either a system process or a terminal process. If the PID refers to a terminal process, a uniqueness number must be included.

c = Uniqueness number of the specified terminal process PID (used only for a terminal process).

4. SYSTEM RESPONSE

NG = No good. The message was not accepted. May also include:
   - INVALID PID = An illegal value for PID was specified.
   - PID NOT ACTIVE = The specified PID is no longer associated with an active process.

PF = Printout follows. The initialization request was accepted and is followed by the INIT:AM-LVL output messages.

5. REFERENCES

Output Message(s):
INIT:AM-LVL

Input Appendix(es):

APP:PID-AM-OKP
APP:PID-AM-SMKP

Other Manual(s):
235-105-220  Corrective Maintenance
235-105-250  System Recovery Procedures
1. PURPOSE

Requests that the communication link normalization (CLNORM) process be initiated. Initialize the CLNK preferences for CLNK Normalization to the default preferences of one CLNK active on the MSGS0-ONTC0 hardware and the other active CLNK on the MSGS1-ONTC1 hardware.

2. FORMAT

INIT:CLNORM;

3. EXPLANATION OF MESSAGE

No variables.

4. SYSTEM RESPONSE

PF = Printout follows. The request was accepted. The INIT:CLNORM output message follows.

5. REFERENCES

Input Message(s):

ALW:CLNORM
INH:CLNORM

Output Message(s):

ALW:CLNORM
INH:CLNORM

Other Manual(s):
235-106-103  5ESS® Switch Software Release Retrofit Procedures 5E12 to 5E13
INIT:CM

Software Release: 5E14 and later
Command Group: SYSRCVY
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

This message is used to reinitialize the CM without affecting the AM. By selecting optional input parameters, switch maintenance technicians can specify the level of initialization and which side of the MSCU/ONT complex to force active.

WARNING: This input message will result in call processing downtime. All service in this unit will be lost for the duration of the initialization.

2. FORMAT

[1] INIT:CM,FI[,MSCU=0|1][,ONTC=0|1]


3. EXPLANATION OF MESSAGE

Note: Refer to the Acronym section of the Input Messages manual for the full expansion of acronyms shown in the format.

4. SYSTEM RESPONSE

IP = In progress. The message was accepted and the request is in progress.

NG = No good. The message was not accepted because an illegal initialization level or the feature was not purchased.

5. REFERENCES

Input Message(s):

None.

Output Message(s):

None.
INIT:CMP-SPP

Software Release: 5E14 and later
Command Group: SYSRCVY
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Requests a single process purge (SPP) of a named process in a selected communication module processor (CMP). The named process ID (PID) may be either a system process or terminal process. Refer to the APP:PID-CMP appendix in the Appendixes section of the Input Messages manual for a list of the CMP system process PIDs.

WARNING: This message will purge the requested process. Any activity currently in progress will be killed. This may result in other asserts or audits as the system cleans up.

2. FORMAT

INIT:CMP=a,b,SPP,PID=c[-d];

3. EXPLANATION OF MESSAGE

Note: Refer to the Acronym section of the Input Messages manual for the full expansion of acronyms shown in the format.

a = CMP number.
b = Processor affected. Valid value(s):
   MATE = Mate CMP.
   PRIM = Primary CMP.
c = PID to be purged. The process may be either a system process or a terminal process. If the PID refers to a terminal process, a uniqueness number must be included.
d = Uniqueness number of the specified terminal process PID (used only for a terminal process).

4. SYSTEM RESPONSE

NG = No good. The message was not accepted because:
- An illegal CMP number was specified.
- An illegal initialization level or PID was specified.
PF = Printout follows. Followed by the INIT:CMP-LVL output message.

5. REFERENCES

Output Message(s):

INIT:CMP-LVL
Input Appendix(es):

APP : PID-CMP

Other Manual(s):
235-105-220  Corrective Maintenance
235-105-250  System Recovery
235-600-400  Audits
INIT:CMP

Software Release: 5E14 and later
Command Group: SYSRCVY
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Requests that the selected communication module processors (CMPs) be initialized at the specified level. The initialization level may be a selective initialization (SI), full initialization (FI), or purging initialization (PGI). In addition, a full pump of the CMP may be specified with the FI.

If an initialization is requested on a CMP that is isolated from the administrative module (AM), the initialization request will be queued until communication is restored. Initialization requests for the mate CMP may be queued behind primary CMP or switching module (SM) initialization requests, in which case, the state of the CMP will change to "INIT PEND", indicating there is an initialization pending. Pending initialization requests may be canceled by selecting the NOINIT level as shown below.

WARNING: All service in this unit will be lost for the duration of the initialization.

2. FORMAT

INIT:CMP=a,b,c[,PUMP];

3. EXPLANATION OF MESSAGE

PUMP = Perform a full CMP pump at the requested level (FI).

a = CMP number.

b = Processor to be initialized. Valid value(s):
   MATE = Mate CMP.
   PRIM = Primary CMP.

c = Initialization level. Valid value(s):
   FI = Full initialization (clear all stable calls).
   NOINIT = No initialization (cancel a pending SI, FI, PGI request).
   PGI = Purging initialization.
   SI = Selective initialization (clear all transient calls).

4. SYSTEM RESPONSE

IP = In progress. The message was accepted and the request is in progress. Valid value(s):
   - PREVIOUS INIT CANCELLED = As part of accepting this request a previous initialization request was cancelled.

NG = No good. The message was not accepted for one of the following reasons:
- CMP IS OOS, TRY RST:CMP = CMP must be restored rather than initialized.
- INIT INPROGRESS/COMPLETED = Initialization could not be cancelled because it had already started or completed (NOINIT only).
- INTERNAL ERROR = Request count not be handled due to system software problems.
- INVALID CMP PAIR/MEMBER = Illegal CMP pair/member was specified.
- INVALID INIT/PUMP TYPE = Illegal initialization level or pump option was specified.

OK = Good. The message was accepted and the action completed (NOINIT only).

5. REFERENCES

Output Message(s):

INIT:CMP-LVL

Other Manual(s):
235-105-250 System Recovery
235-105-220 Corrective Maintenance

MCC Display Page(s):

1850/1851 (CMP INH & RCVRY CNTL)
**INIT:CNI**

**Software Release:** 5E14 and later  
**Command Group:** SYSRCVY  
**Application:** 5  
**Type:** Input

**WARNING:** INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. **PURPOSE**

Requests a common network interface (CNI) initialization at a specified level. The selected level may be level 0 (audit level) or 1, 2, 3, or 4, which result in an initialization of the CNI system.

**WARNING:** This message could halt all common channel signaling (CCS) call processing. All service based on the CNI could be lost for the duration of the initialization.

2. **FORMAT**

```
INIT:CNI,{LVL0|LVL1|LVL2|LVL3|LVL4|DLNTBL};
```

3. **EXPLANATION OF MESSAGE**

- **DLNTBL**  
  Direct link node table. Initialize direct memory access (DMA) tables required during DLN growth. This option is only used during CNI growth.

- **LVL0**  
  Perform an audit-level CNI and interprocess message switch (IMS) initialization. The CNI level 0 initialization requests a series of CNI-related data audits to be run by an audit manager residing in the system integrity monitor (SIM). If an excessive amount of non-correctable critical errors occur, the level 0 initialization is advanced to a level 1 initialization. Included with the CNI audits, an IMS level 0 audit is performed.

- **LVL1**  
  Perform a recovery-level CNI initialization. The CNI level 1 initialization resets and restarts all CNI administrative module (AM) resident software. No processes are recreated or reloaded from disk and the CNI ring is not re-pumped. The CNI system is briefly unavailable to carry CCS traffic.

- **LVL2**  
  Perform a boot-level CNI initialization. All AM resident processes parented by CNI and IMS will be killed and recreated. Data that was previously loaded into the CNI protected application segment (PAS) area (during a previous initialization) will not be reloaded during the level 2 initialization and the remote access subsystem (REMACS) will not pump the nodes with CNI routing data.

- **LVL3**  
  In addition to performing a LVL2, data in shared libraries and the CNI PAS area reload and reinitialize from disk. The CNI REMACS downloads routing data to all nodes on the CNI ring.

- **LVL4**  
  In addition to performing a LVL3, download all CNI-related text and data to the CNI ring nodes.

4. **SYSTEM RESPONSE**

- **NG**  
  No good. Request was unsuccessful because:
  - The CNI system is already initializing. Try higher level.
  - The CNI system is in an automatically non-recoverable state. Perform a LVL3 or LVL4.
  - The initialization of the CNI system failed.
- An internal error occurred.
- The office is not equipped with CNI.

OK  = Good. Request has been accepted.
PF  = Printout follows. Initialization request has been accepted and is followed by the INIT:CNI-LVL output message.
RL  = Retry later because:
    - The CNI system is not in a stable state.
    - The system is unable to service the request. (This will happen if the office is not equipped with the CNI ring, and LVL0 or LVL1 level is run.)

5. REFERENCES

Input Message(s):
    STP: EXC–ANY

Output Message(s):
    INIT:CNI-LVL

Other Manual(s):
235-190-120  Common Channel Signaling and Associated Signaling Service Features

MCC Display Page(s):
    118 (CNI FRAME AND CCS STATUS)
**INIT:DLN-SPP-PID**

**Software Release:** 5E14 and later  
**Command Group:** SYSRCVY  
**Application:** 5  
**Type:** Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. **PURPOSE**

Requests a single process purge (SPP) of a named process in a selected direct link node (DLN). The named process identification number (PID) may be either a system process or terminal process.

**WARNING:** This message will purge the requested process. Any activity currently in progress will be killed. This may result in additional asserts as the system cleans up.

2. **FORMAT**

INIT:DLN=a-b,SPP,PID=c[-d];

3. **EXPLANATION OF MESSAGE**

Note: Refer to the Acronym section of the Input Messages manual for the full expansion of acronyms shown in the format.

a = DLN ring node group number.

b = DLN ring node member number.

c = Process number to be purged. The process may be either a system process or a terminal process. If the PID refers to a terminal process, a uniqueness number must be included.

d = Uniqueness number of the specified terminal process PID (used only for a terminal process).

**Exhibit A -- SYSTEM PIDs FOR THE DLN**

<table>
<thead>
<tr>
<th>PID</th>
<th>Process Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>0</td>
<td>CCTR</td>
<td>CCS message transport process</td>
</tr>
<tr>
<td>1</td>
<td>CCDD</td>
<td>CCS direct signaling process</td>
</tr>
<tr>
<td>2</td>
<td>CCDB</td>
<td>Database management process</td>
</tr>
<tr>
<td>3</td>
<td>CCSI</td>
<td>System integrity background process</td>
</tr>
<tr>
<td>4</td>
<td>MSDL</td>
<td>Measurement collection controller process</td>
</tr>
<tr>
<td>5</td>
<td>DCNG</td>
<td>Congestion control process</td>
</tr>
<tr>
<td>6</td>
<td>RMCS</td>
<td>CNI remote access process</td>
</tr>
<tr>
<td>7</td>
<td>RDBG</td>
<td>CNI ring debugger monitor process</td>
</tr>
</tbody>
</table>

4. **SYSTEM RESPONSE**

**IP** = In progress. The message was accepted and the request is in progress.

**NA** = No acknowledgement. The DLN did not respond to the initialization request.
NG = No good. The message was not recognized, or was not acceptable. Valid value(s):
- DLN NOT EQUIPPED = The request was denied. DLN is not equipped in this office.
- INVALID PROCESS ID = The request was denied. The specified PID is invalid or the process
does not exist.
- NODE IS NOT A DLN = The specified ring node is not a DLN.

RL = Retry later. Valid value(s):
- CNI NOT AVAILABLE = The common network interface (CNI) was out of service or in
  initialization.
- DLN INIT IN PROGRESS = A DLN initialization was already in progress.

5. REFERENCES

Output Message(s):
  REPT:DLN

Other Manual(s):
235-190-120  Common Channel Signaling and Associated Signaling Service Features

MCC Display Page(s):
  118 (CNI FRAME AND CCS STATUS)
INIT:DLN

Software Release: 5E14 and later
Command Group: SYSRCVY
Application: 5,CNI
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Requests an initialization of the selected direct link node (DLN) at the specified level. The initialization level may be a start-scan operation, office dependent data (ODD) pump, or software restart.

WARNING: This message will initialize the selected unit. All service in this unit will be lost for the duration of the initialization.

2. FORMAT

INIT:DLN=a-b,c;

3. EXPLANATION OF MESSAGE

a = Ring node group number of selected DLN. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

b = Ring node member number of selected DLN (default 2). Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

c = The desired initialization level. Valid value(s):
   PUMP = Pump the ODD data to the DLN.
   RESTART = Restart the operating system and all software processes of the DLN node processor and attached processor.
   SCAN = Initialize the direct memory access (DMA) scanning process in the active DLN.

4. SYSTEM RESPONSE

NA = No acknowledgement. The DLN did not respond to the start scan operation (SCAN only).

NG = No good. The message was not recognized, or was not acceptable. Valid value(s):
   - DLN IS NOT ACTIVE = SCAN was requested for a DLN that is not in the active state.
   - DLN NOT EQUIPPED = DLN is not equipped in this office.
   - NODE IS NOT A DLN = The specified ring node address is not a DLN.

OK = Good. The message was accepted and the action completed (SCAN only).

PF = Printout follows. Followed by the REPT:RINGMON output message.

RL = Retry later. Valid value(s):
   - CNI NOT AVAILABLE = The common network interface (CNI) was out of service or in
initialization.
- DLN INIT IN PROGRESS = A DLN initialization was already in progress.
- RING IS IN SILENCE STATE = Communication both to and from the node is not available at this time.

5. REFERENCES

Output Message(s):

REPT:RINGMON-AST
REPT:RINGMON-DAD
REPT:RINGMON-DED

Input Appendix(es):

APP:RANGES

Other Manual(s):
235-190-120 Common Channel Signaling and Associated Signaling Service Features

MCC Display Page(s):

118 (CNI FRAME AND CCS STATUS)
INIT:DSL

Software Release: 5E14 and later
Command Group: SYSRCVY
Application: 5
Type: Input

1. PURPOSE

Requests a single process purge (SPP) and reinitialization of a terminal process in a switching module (SM) that
controls the named Operator Services Position System (OSPS) digital subscriber line (DSL).

2. FORMAT

INIT:DSL, {BST=a-b|DASC=c-d|EIS=x-y|RAS=e-f|OAPO=g|
OAPF=h|XDPO=i|XDPF=j|OPT=k-l|RTRS=m-n|
HOBIS=o-p|HOBICV=q-r|HOBICR=q-s|AQ=t-u|MISLNK=v-w};

3. EXPLANATION OF MESSAGE

a  = Operator service center (OSC) number associated with an OSPS basic services terminal (BST). Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
b  = BST relative position number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
c  = Directory assistance services computer (DASC) host number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
d  = Relative DSL number assigned to a DASC data link DSL.
e  = Remote integrated services line unit (RISLU) site number associated with OSPS remote alarm section (RAS). Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
f  = Relative data link DSL number assigned to an alarm conversion circuit (ACC) in the RAS.
g  = OSC number that identifies an OSPS administrative processor associated with the OSC (OAPO). Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
h  = Force management center (FMC) number that identifies an OSPS administrative processor associated with the FMC (OAPF). Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
i  = OSC number that identifies an OSPS external data port associated with the OSC (XDPO). Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
j  = FMC number that identifies an OSPS external data port associated with the FMC (XDPF). Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
k  = Operator service center (OSC) number associated with an OSPS operator position terminal (OPT). Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
l  = OPT relative position number.
m = Real-time rating system (RTRS) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

n = Relative DSL number assigned to a RTRS data link DSL.

o = Hotel billing information system (HOBIS) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

p = Relative DSL number assigned to a HOBIS data link DSL.

q = Hotel billing information center (HOBIC) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

r = Relative DSL number assigned to a HOBICV (HOBIC voice-quote terminal) data link DSL.

s = Relative DSL number assigned to a HOBICR (HOBIC record terminal) data link DSL.

t = Autoquote DSL modem pool number.

u = Relative DSL number assigned to an autoquote data link DSL.

v = Commercial automatic call distributor management information system/computer data link (MISLNK) host number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

w = Relative DSL number assigned to a MISLNK data link DSL.

x = External information system (EIS) ID.

y = External data link (member) number relative to the EIS.

4. SYSTEM RESPONSE

IP = In progress. The message was accepted and the request is in progress.

NG = No good. Valid value(s):
- OSPS DSL is not equipped in the office.
- OSPS DSL does not have an active terminal process in control of it.
- The SM specified is unavailable at this time.

RL = Retry later. There is a purge in progress.

5. REFERENCES

Output Message(s):

REPT:DATA

Input Appendix(es):

APP:RANGES
INIT:DSNPAGE

Software Release: 5E14 and later
Command Group: SYSRCVY
Application: 5
Type: Input

1. PURPOSE

To refresh the defense switched network (DSN) network management page (page 129). The data used to draw the page are the most current available. This message is valid only for DSN switches.

2. FORMAT

INIT:DSNPAGE;

3. EXPLANATION OF MESSAGE

No variables.

4. SYSTEM RESPONSE

OK = Good. The request is accepted and completed.
RL = Retry later. The necessary resources are not available. Valid value(s):
   - RESOURCE SHORTAGE

5. REFERENCES

Input Message(s):

ASGN:DFSCH
CLR:NMSCH
CLR:TRKDP

Other Manual(s):
235-900-113 Product Specification
235-200-300 Defense Switched Network Applications

MCC Display Page(s):

129 (DSN NM EXCEPTION)
109 (OVERLOAD)
INIT:FAC-A

**Software Release:** 5E14 - 5E15  
**Command Group:** TRKLN  
**Application:** 5  
**Type:** Input

1. PURPOSE

Requests initialization of performance monitoring (PM) data for facilities terminated on a digital facility interface (DFI), DFI model 2 (DFI-2), an integrated digital carrier unit (IDCU), or a digital networking unit - synchronous optical network (SONET) (DNU-S). The affected facilities’ 15 MIN interval and DAY PM counts (history intervals and previous day counts also if all option is used) are marked corrupt as a result of this initialization.

Format 1 is used to initialize performance monitoring counts for a facility terminated on a DFI or a DFI-2.

Format 2 is used to initialize performance monitoring counts for all facilities terminated on a DFI-2.

Format 3 is used to initialize performance monitoring counts for all facilities terminated on a digital line and trunk unit (DLTU) model 2 (DLTU2).

Format 4 is used to initialize performance monitoring counts for all facilities terminated on an IDCU.

Format 5 is used to initialize performance monitoring counts on the specified IDCU facility (IFAC).

Format 6 is used to initialize performance monitoring counts for all facilities terminated on an IDCU-supported or DNU-S supported TR303 remote terminal (RT).

Format 7 is used to initialize current or all performance monitoring counts for all section terminating equipment (STE) facilities on a DNU-S. The PM counts associated with any subtending virtual tributary 1.5 (VT1.5) or digital signal level-1 (DS1) facilities are not initialized.

Format 8 is used to initialize current or all performance monitoring counts on a specified DNU-S STE facility. The PM counts associated with any subtending VT1.5 or DS1 facilities are not initialized.

Format 9 is used to initialize current or all performance monitoring counts on either all VT1.5s or all DS1s terminated on a DNU-S synchronous transport signal-1 (STS-1) facility. With the VT1 option, the PM counts can be initialized on all 28 VT1.5 facilities carried on an STS-1 facility. With the VT1 option, the PM counts associated with each subtending DS1 facility are not initialized. With the DS1 option, the PM counts can be initialized on all 28 DS1 facilities carried on an STS-1 facility.

Format 10 is used to initialize performance monitoring counts on a DNU-S VT1.5 facility. The PM counts associated with the subtending DS1 facility are not initialized.

Format 11 is used to initialize performance monitoring counts on a DNU-S DS1 facility.

2. FORMAT

[1] INIT:FAC,DFAC=a-b-c-d;

[2] INIT:FAC,DFI=a-b-c;

[3] INIT:FAC,DLTU=a-b;

[4] INIT:FAC,IDCU=a-e[, (ALL|CURR)][, {NE|BOTH}];

[5] INIT:FAC,IFAC=a-e-f[, (ALL|CURR)][, {NE|FE|BOTH}];
3. EXPLANATION OF MESSAGE

ALL = Initialize all 15-minute and day PM counts, including current, previous and history counts.

BOTH = Initialize counts at both ends of the facility. If the requested facility has only NE and the BOTH option used, then the request is processed for the NE.

CURR = Initialize all current 15-minute interval and current day PM counts (default).

FE = Initialize counts at the far end of facility only.

NE = Initialize PM counts at the switch end of facility only.

a = Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

b = DLTU number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

c = DFI number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

d = Facility number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

e = IDCU number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

f = IFAC number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

g = TR303 RT number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

h = DNU-S number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

i = Data group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

j = STE facility number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

k = STS facility number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
Messages manual.

1  = VT1.5 facility group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

m  = VT1.5 facility member number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

NG  = No good. The input contained an illegal specification.

PF  = Printout follows. The request has been accepted and is followed by the INIT:FAC output message.

RL  = Retry later. The request has been denied, probably due to system load.

5. REFERENCES

Input Message(s):

ALW:FAC
INH:FAC
INIT:REG
OP:FAC

Output Message(s):

ALW:FAC
INH:FAC
INIT:FAC
INIT:REG
OP:FAC
REPT:FAC

Input Appendix(es):

APP:RANGES

Other Manual(s):

235-105-220  Corrective Maintenance Procedures

RC/V View(s):

8.1 [OFFICE PARAMETERS (MISCELLANEOUS)]
20.23 (IDCU FACILITY EQUIPMENT)
20.25 (DNU-S PERFORMANCE MONITORING THRESHOLD GROUP)
22.15 (PERFORMANCE MONITORING)
1. PURPOSE

Requests initialization of performance monitoring (PM) data for facilities terminated on a digital facility interface (DFI), DFI model 2 (DFI-2), an integrated digital carrier unit (IDCU), a digital networking unit - synchronous optical network (SONET) (DNU-S), or an optical interface unit (OIU). The affected facilities’ 15 MIN interval and DAY PM counts (history intervals and previous day counts also if all option is used) are marked corrupt as a result of this initialization.

Format 1 is used to initialize performance monitoring counts for a facility terminated on a DFI or a DFI-2.

Format 2 is used to initialize performance monitoring counts for all facilities terminated on a DFI-2.

Format 3 is used to initialize performance monitoring counts for all facilities terminated on a digital line and trunk unit (DLTU) model 2 (DLTU2).

Format 4 is used to initialize performance monitoring counts for all facilities terminated on an IDCU.

Format 5 is used to initialize performance monitoring counts on the specified IDCU facility (IFAC).

Format 6 is used to initialize performance monitoring counts for all facilities terminated on an IDCU-supported or DNU-S supported TR303 remote terminal (RT).

Format 7 is used to initialize current or all performance monitoring counts for all SONET terminating equipment (STE) facilities on a DNU-S. The PM counts associated with any subtending virtual tributary 1.5 (VT1.5) or digital signal level-1 (DS1) facilities are not initialized.

Format 8 is used to initialize current or all performance monitoring counts on a specified DNU-S STE facility. The PM counts associated with any subtending VT1.5 or DS1 facilities are not initialized.

Format 9 is used to initialize current or all performance monitoring counts on either all VT1.5s or all DS1s terminated on a DNU-S synchronous transport signal - level 1 (STS-1) facility. With the VT1 option, the PM counts can be initialized on all 28 VT1.5 facilities carried on an STS-1 facility. With the VT1 option, the PM counts associated with each subtending DS1 facility are not initialized. With the DS1 option, the PM counts can be initialized on all 28 DS1 facilities carried on an STS-1 facility.

Format 10 is used to initialize performance monitoring counts on a DNU-S VT1.5 facility. The PM counts associated with the subtending DS1 facility are not initialized.

Format 11 is used to initialize performance monitoring counts on a DNU-S DS1 facility.

Format 12 is used to initialize performance monitoring counts on an OIU facility. If subt option is used, PM counts associated with all subtending facilities under this OIU will also be initialized.

Format 13 is used to initialize performance monitoring counts on a optical carrier - level 3 (OC3 or OC3C) facility under OIU. If subt option is used, PM counts associated with all subtending facilities under this OC3 will also be initialized.

Format 14 is used to initialize performance monitoring counts on a optical carrier - level 4 (STS1 or STS3C) facility under OIU. If subt option is used, PM counts associated with all subtending facilities under this facility will also be initialized.
Format 15 is used to initialize performance monitoring counts on a VT1.5 facility under OIU. If subl option is used, PM counts associated with all subtending facilities under this VT1.5 will also be initialized.

Format 16 is used to initialize performance monitoring counts on a DS1 facility under OIU.

Format 17 is used to initialize performance monitoring counts on all protocol layers associated with an OIU PPP link (PPPLK).

2. FORMAT

[1] INIT:FAC,DFAC=a-b-c-d;

[2] INIT:FAC,DFI=a-b-c;

[3] INIT:FAC,DLTU=a-b;

[4] INIT:FAC,IDCU=a-e [, (ALL|CURR)][, (NE|BOTH)];

[5] INIT:FAC,IFAC=a-e-f [, (ALL|CURR)][, (NE|FE|BOTH)];

[6] INIT:FAC,(DNUSR|IDCURT)=a-e-g [, (ALL|CURR)][, (FE|BOTH)];

[7] INIT:FAC,DNUS=a-h [, (ALL|CURR)];

[8] INIT:FAC,EC1STE=a-h-i-j [, (ALL|CURR)];

[9] INIT:FAC,STSFAC=a-h-i-j-k,VT1|DS1 [, (ALL|CURR)][, (NE|FE|BOTH)];

[10] INIT:FAC,VT1FAC=a-h-i-j-k-l-m [, (ALL|CURR)][, (NE|FE|BOTH)];

[11] INIT:FAC,DS1SFAC=a-h-i-j-k-l-m [, (ALL|CURR)][, (NE|FE|BOTH)];

[12] INIT:FAC,OIU=a-n [, (ALL|CURR)][, (NE|FE|BOTH)];

[13] INIT:FAC[,OC3|OC3C]=a-n-o-q-p [, (ALL|CURR)][, (NE|FE|BOTH)][, SUBT];

[14] INIT:FAC[,STS1|STS3C]=a-n-o-q-r [, (ALL|CURR)][, (NE|FE|BOTH)][, SUBT];

[15] INIT:FAC,VT15=a-n-o-q-r-s-t [, (ALL|CURR)][, (NE|FE|BOTH)][, SUBT];

[16] INIT:FAC,DS1=a-n-o-q-r-s-t [, (ALL|CURR)][, (NE|FE|BOTH)];
3. EXPLANATION OF MESSAGE

<table>
<thead>
<tr>
<th>Option</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>ALL</td>
<td>Initialize all 15-minute and day PM counts, including current, previous and history counts.</td>
</tr>
<tr>
<td>BOTH</td>
<td>Initialize counts at both ends of the facility. If the requested facility has only NE and the BOTH option used, then the request is processed for the NE.</td>
</tr>
<tr>
<td>CURR</td>
<td>Initialize all current 15-minute interval and current day PM counts (default).</td>
</tr>
<tr>
<td>FE</td>
<td>Initialize counts at the far end of facility only.</td>
</tr>
<tr>
<td>NE</td>
<td>Initialize PM counts at the switch end of facility only.</td>
</tr>
<tr>
<td>SUBT</td>
<td>Initialize subtending facilities.</td>
</tr>
<tr>
<td>a</td>
<td>Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.</td>
</tr>
<tr>
<td>b</td>
<td>DLTU number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.</td>
</tr>
<tr>
<td>c</td>
<td>DFI number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.</td>
</tr>
<tr>
<td>d</td>
<td>Facility number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.</td>
</tr>
<tr>
<td>e</td>
<td>IDCU number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.</td>
</tr>
<tr>
<td>f</td>
<td>IFAC number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.</td>
</tr>
<tr>
<td>g</td>
<td>TR303 RT number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.</td>
</tr>
<tr>
<td>h</td>
<td>DNU-S number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.</td>
</tr>
<tr>
<td>i</td>
<td>Data group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.</td>
</tr>
<tr>
<td>j</td>
<td>STE facility number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.</td>
</tr>
<tr>
<td>k</td>
<td>STS facility number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.</td>
</tr>
<tr>
<td>l</td>
<td>VT1.5 facility group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.</td>
</tr>
</tbody>
</table>
m = VT1.5 facility member number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

n = OIU number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

o = Protection group (PG) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

p = Side number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

q = OC3 or OC3C number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

r = STS1 or STS3C number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

s = VT1.5 group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

t = VT1.5 member number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

NG = No good. The input contained an illegal specification.

PF = Printout follows. The request has been accepted and is followed by the INIT:FAC output message.

RL = Retry later. The request has been denied, probably due to system load.

5. REFERENCES

Input Message(s):

ALW:FAC
INH:FAC
INIT:REG
OP:FAC

Output Message(s):

ALW:FAC
INH:FAC
INIT:FAC
INIT:REG
OP:FAC
REPT:FAC

Input Appendix(es):
APP: RANGES

Other Manual(s):
235-105-220  Corrective Maintenance

RC/V View(s):
8.1  OFFICE PARAMETERS (MISCELLANEOUS)
20.23  IDCU FACILITY EQUIPMENT
20.25  DNU-S PERFORMANCE MONITORING THRESHOLD GROUP
22.15  PERFORMANCE MONITORING
1. PURPOSE

Requests initialization of performance monitoring (PM) data for facilities terminated on a digital facility interface (DFI), DFI model 2 (DFI-2), an integrated digital carrier unit (IDCU), a digital networking unit - synchronous optical network (SONET) (DNU-S), or an optical interface unit (OIU). The affected facilities’ 15 MIN interval and DAY PM counts (history intervals and previous day counts also if all option is used) are marked corrupt as a result of this initialization.

This command can also be used to initializes performance monitoring (PM) data for a session initiation protocol (SIP) protocol handler (PH) (other PHs are not allowed). The affected 15 MIN interval and DAY PM counts are marked corrupt as a result of this initialization.

Format 1 is used to initialize performance monitoring counts for a facility terminated on a DFI or a DFI-2.

Format 2 is used to initialize performance monitoring counts for all facilities terminated on a DFI-2.

Format 3 is used to initialize performance monitoring counts for all facilities terminated on a digital line and trunk unit (DLTU) model 2 (DLTU2).

Format 4 is used to initialize performance monitoring counts for all facilities terminated on an IDCU.

Format 5 is used to initialize performance monitoring counts on the specified IDCU facility (IFAC).

Format 6 is used to initialize performance monitoring counts for all facilities terminated on an IDCU-supported or DNU-S supported TR303 remote terminal (RT).

Format 7 is used to initialize current or all performance monitoring counts for all SONET terminating equipment (STE) facilities on a DNU-S. The PM counts associated with any subtending virtual tributary 1.5 (VT1.5) or digital signal level-1 (DS1) facilities are not initialized.

Format 8 is used to initialize current or all performance monitoring counts on a specified DNU-S STE facility. The PM counts associated with any subtending VT1.5 or DS1 facilities are not initialized.

Format 9 is used to initialize current or all performance monitoring counts on either all VT1.5s or all DS1s terminated on a DNU-S synchronous transport signal - level 1 (STS-1) facility. With the VT1 option, the PM counts can be initialized on all 28 VT1.5 facilities carried on an STS-1 facility. With the VT1 option, the PM counts associated with each subtending DS1 facility are not initialized. With the DS1 option, the PM counts can be initialized on all 28 DS1 facilities carried on an STS-1 facility.

Format 10 is used to initialize performance monitoring counts on a DNU-S VT1.5 facility. The PM counts associated with the subtending DS1 facility are not initialized.

Format 11 is used to initialize performance monitoring counts on a DNU-S DS1 facility.

Format 12 is used to initialize performance monitoring counts on an OIU facility. If subt option is used, PM counts associated with all subtending facilities under this OIU will also be initialized.

Format 13 is used to initialize performance monitoring counts on a optical carrier - level 3 (OC3 or OC3C) facility under OIU. If subt option is used, PM counts associated with all subtending facilities under this OC3 will also be initialized.
Format 14 is used to initialize performance monitoring counts on a optical carrier - level 4 (STS1 or STS3C) facility under OIU. If subt option is used, PM counts associated with all subtending facilities under this facility will also be initialized.

Format 15 is used to initialize performance monitoring counts on a VT1.5 facility under OIU. If subt option is used, PM counts associated with all subtending facilities under this VT1.5 will also be initialized.

Format 16 is used to initialize performance monitoring counts on a DS1 facility under OIU.

Format 17 is used to initialize performance monitoring counts on all protocol layers associated with an OIU PPP link (PPPLK).

Format 18 is used to initialize performance monitoring counts on the extended access interface unit (EAIU) timeslot group (TSGRP).

Format 19 is used to initialize performance monitoring counts on all protocol layers associated with an SIP PH (other PHs are not allowed).

2. FORMAT

[1] INIT:FAC,DFAC=a-b-c-d;

[2] INIT:FAC,DFI=a-b-c;

[3] INIT:FAC,DLTU=a-b;

[4] INIT:FAC,IDCU=a-e,[{ALL|CURR}],[{NE|BOTH}];

[5] INIT:FAC,IFAC=a-e-f,[{ALL|CURR}],[{NE|FE|BOTH}];

[6] INIT:FAC,(DNUSRT=a-h-g|IDCURT=a-e-g),{ALL|CURR}],[{FE|BOTH}];

[7] INIT:FAC,DNUS=a-h,[{ALL|CURR}];

[8] INIT:FAC,EC1STE=a-h-i-j,[{ALL|CURR}];

[9] INIT:FAC,STSFAC=a-h-i-j-k,VT1|DS1,[{ALL|CURR}],[{NE|FE|BOTH}];

[10] INIT:FAC,VT1FAC=a-h-i-j-k-l-m,[{ALL|CURR}],[{NE|FE|BOTH}];

[11] INIT:FAC,DS1SFAC=a-h-i-j-k-l-m,[{ALL|CURR}],[{NE|FE|BOTH}];

[12] INIT:FAC,OIU=a-n,[{ALL|CURR}],[{NE|FE|BOTH}];
3. EXPLANATION OF MESSAGE

**ALL** = Initialize all 15-minute and day PM counts, including current, previous and history counts.

**BOTH** = Initialize counts at both ends of the facility. If the requested facility has only NE and the BOTH option used, then the request is processed for the NE.

**CURR** = Initialize all current 15-minute interval and current day PM counts (default).

**FE** = Initialize counts at the far end of facility only.

**NE** = Initialize PM counts at the switch end of facility only.

**SUBT** = Initialize subtending facilities.

*a* = Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

*b* = DLTU number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

*c* = DFI number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

*d* = Facility number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

*e* = IDCU number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

*f* = IFAC number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
= TR303 RT number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

= DNU-S number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

= Data group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

= STE facility number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

= STS facility number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

= VT1.5 facility group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

= VT1.5 facility member number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

= OIU number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

= Protection group (PG) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

= Side number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

= OC3 or OC3C number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

= STS1 or STS3C number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

= VT1.5 group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

= VT1.5 member number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

= EAIU number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

= Common data and control controller (COMDAC) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

= TSGRP number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

= PSU number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

= Shelf number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
\[ = \] Protocol handler number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

NG = No good. The input contained an illegal specification.

PF = Printout follows. The request has been accepted and is followed by the INIT:FAC output message.

RL = Retry later. The request has been denied, probably due to system load.

5. REFERENCES

Input Message(s):

- ALW:FAC
- INH:FAC
- INIT:REG
- OP:FAC

Output Message(s):

- ALW:FAC
- INH:FAC
- INIT:FAC
- INIT:REG
- OP:FAC
- REPT:FAC

Input Appendix(es):

- APP:RANGES

Other Manual(s):

235-105-220 Corrective Maintenance

RC/V View(s):

8.1 OFFICE PARAMETERS (MISCELLANEOUS)
20.12 STS-1 FACILITY PROVISIONING (DNU-S)
20.23 IDCU FACILITY EQUIPMENT (IFAC)
20.24 VT1.5 FACILITY PROVISIONING (DNU-S)
20.25 DNU-S PERFORMANCE MONITORING THRESHOLD GROUP (SM2000)
20.29 OIU SONET TERMINATION EQUIPMENT (SM2000)
20.30 HIGH-LEVEL VIRTUAL CONTAINER (OIU)
20.31 LOW-LEVEL VIRTUAL CONTAINER (OIU)
20.32 PERFORMANCE MONITORING THRESHOLD GROUP (OIU, SIP PSUPH)
22.15 PERFORMANCE MONITORING (DLTU)
33.16 SIP-T PROCESSOR GROUP
INIT:FACR

Software Release: 5E14 and later
Command Group: FHADM
Application: 5
Type: Input

1. PURPOSE

Format 1 requests that the password for retrieval of the feature activation counting and reconciliation (FACR) output files be initialized.

Format 2 allows the user to control whether or not the output from a detail FACR report can be transmitted off the switch.

2. FORMAT

[1] INIT:FACR:PASSWD=a,KEY=b;

3. EXPLANATION OF MESSAGE

a = An eight digit password used by the software change administration and notification system (SCANS) software for transmission of the FACR data file.

b = An two character key used by SCANS software for transmission of the FACR data file.

c = Output status. Valid value(s):
Y = Allow FACR detail output to be transmitted off the switch (default).
N = Prohibit FACR detail output from being transmitted off the switch.

4. SYSTEM RESPONSE

PF = Printout follows. Followed by the INIT:FACR output message.

5. REFERENCES

Output Message(s):

INIT:FACR

Other Manual(s):
235-040-100  OA&M Planning Guide
235-100-125  System Description
235-105-210  Routine Operations and Maintenance Procedures
INIT:LN

Software Release: 5E14 and later
Command Group: SYSRCVY
Application: 5, CNI
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Requests forced removal from service and restart of the specified node, regardless of the state of the link and other nodes. Restart consists of initializing the software in the node without pumping it from the administrative module (AM). A successful restart returns the node to service.

An attempt is made to remove the node from service and restart it, provided that the node is not the ring peripheral controller (RPC), the node major state is active (ACT), the node is in the active ring segment, the interprocess message switch (IMS) subsystem is not initializing at a level higher than 1A, and the software in the node is designed to be restartable. The removal changes the major state to out-of-service (OOS). The restart changes the major state to initialization (INIT) only if the node has an attached processor. If successful, the restart changes the major state to ACT. If the restart fails, the major state is changed to OOS and the user becomes responsible for restoring the node to service. This input message does not use the maintenance input request administrator (MIRA) queue, so the OP:DMQ and STOP:DMQ input messages do not apply to it and it may be executed ahead of previously entered input messages in the MIRA queue.

WARNING: This input message can cause signaling point isolation; isolating the office and interrupting common channel signaling (CCS) message processing, by removing the last link node (LN) of a set.

2. FORMAT

INIT:LN a=b;

3. EXPLANATION OF MESSAGE

a = A ring node (RN) group number with explicit leading zero for group numbers less than 10. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

b = The node’s position in the RN group. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

PF = Printout follows. Followed by the INIT:LN output message.

5. REFERENCES

Input Message(s):

FRMV:LN
DGN:LN
RMV:LN

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RST: LN

Output Message(s):

DGN: LN
FRMV: LN
INIT: LN
RMV: LN
RST: LN

Input Appendix(es):

APP: RANGES

Other Manual(s):
235-190-120  Common Channel Signaling Services and Associated Signaling Service Feature

MCC Display Page(s):

118  (CNI RING STATUS PAGE)
1520 (RING NODE STATUS PAGE)
1521 (SIGNALING LINK SUMMARY PAGE)
1522 (SIGNALING LINK PAGE)
INIT:MHD

Software Release: 5E14 and later  
Command Group: FHADM  
Application: 5,3B  
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Formats all or specific disk tracks of the disk pack with initialized sectors.

Note: New disk packs have no sectors and must be formatted before being used.

For SMD MHDs, disk tracks are formatted a section at a time under the control of the format input message. 

For SCSI MHDs, the entire disk is formatted by the SCSI drive's embedded controller.

It may take up to 30 minutes to format a complete disk pack.

WARNING: Any existing data on the targeted disk tracks will be destroyed.

2. FORMAT

INIT:MHD=a[:VFY][,TRACK b[&c]|,NEW];

3. EXPLANATION OF MESSAGE

Note: Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual for information on ranges for the following variables.

NEW = For SMD MHD, build defect management maps using the manufacturer's defect table. The result is a new working (COMBINED) defect map.

The NEW option must be used if a new disk pack is being formatted and defect management is supported for the drive size.

For SCSI MHDs, this option is not valid since the PRIMARY manufacturer's defect table cannot be altered. New defects can only be added to the GROWING defect table.

VFY = This option will invoke the verify procedure.

For SMD MHDs, the verify procedure is performed immediately after each section of the disk is formatted.

For SCSI MHDs, the entire disk is formatted, then the verify procedure is performed.

Note: A VFY MHD output message will not result if this option is selected.

a = Member number.

b = For SMD MHDs, specifies the track number to be formatted (and verified). The track number may be a single track number or the first track number in the range. Track numbers are given in decimal
For SCSI MHDs, this option is not valid because specific tracks cannot be formatted.

c = For SMD MHDs, specifies the last track number of a range to be formatted (and verified).

For SCSI MHDs, this option is not valid because specific tracks cannot be formatted.

4. SYSTEM RESPONSE

PF = Printout follows. Followed by the INIT:MHD output message.

5. REFERENCES

Input Message(s):

VFY : MHD

Output Message(s):

INIT : MHD
VFY : MHD

Input Appendix(es):

APP : RANGES

Other Manual(s):

235-105-220 Corrective Maintenance

MCC Display Page(s):

123 (DISK FILE SYSTEM ACCESS)
123 (DISK FILE SYSTEM ACCESS)
INIT:REG

**Software Release:** 5E14 and later  
**Command Group:** SM  
**Application:** 5  
**Type:** Input

1. **PURPOSE**

Requests that the contents of the error registers of the specified hardware unit be initialized. This is used only for T1 error registers on digital facility interfaces (DFIs).

Format 1 is used to initialize the registers on a DFI, a remote digital facility interface (RDFI), or a host digital facility interface (HDFI). Format 2 is used only with a **SLC®** digital facility interface (SDFI). Format 3 is used only with a remote integrated services line unit (RISLU) digital facility interface (DFIH).

2. **FORMAT**

   [1] INIT:REG,(DFI|RDFI|HDFI)=a-b-c;  
   [2] INIT:REG,SDFI=a-d-e;  
   [3] INIT:REG,DFIH=a-f-g;

3. **EXPLANATION OF MESSAGE**

   a = Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

   b = Digital line and trunk unit (DLTU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

   c = DFI number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

   d = Digital carrier line unit (DCLU) number (for SDFI only). Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

   e = SDFI number (for SDFI only). Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

   f = RISLU DLTU number (for RISLU only). Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

   g = DFIH number (for RISLU only). Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. **SYSTEM RESPONSE**

   NG = No good. The request was not accepted because:

   - An illegal SM number was specified.
   - An illegal DLTU number was specified.
   - An illegal DCLU number was specified.
   - An illegal DFI number was specified.
PF = Printout follows. Followed by the INIT:REG output message.
RL = Retry later. Communication lost to the specified SM.

5. REFERENCES

Output Message(s):

INIT: REG
OP: REG

Input Appendix(es):

APP: RANGES

Other Manual(s):
235-105-220 Corrective Maintenance
INIT:SC

Software Release: 5E15 and later
Command Group: TRKLN
Application: 5
Type: Input

1. PURPOSE

Request reset of signaling converter unit equipped on facility terminated on a digital facility interface (DFI), DFI model 2 (DFI-2), or a digital networking unit - synchronous optical network (SONET) (DNU-S) (VT1.5 facility or DS1 facility) to perform its initialization.

2. FORMAT

INIT:SC,a;

3. EXPLANATION OF MESSAGE

a = Unit. Valid value(s):
   FAC=b-c-d-e
   VT1FAC=b-f-g-h-i-j-k
   DS1SFAC=b-f-g-h-i-j-k

b = Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

c = DLTU number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

d = DFI number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

e = Facility number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

f = DNU-S number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

g = Data group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

h = STE facility number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

i = STS facility number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

j = VT1.5 facility group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

k = VT1.5 facility member number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
4. SYSTEM RESPONSE

NG = No good. The input contained an illegal specification.
PF = Printout follows. Followed by the INIT:SC output message.
RL = Retry later. The request has been denied, probably due to system load.

5. REFERENCES

Input Message(s):

RST:FAC
RST:VT1FAC
RST:DS1SFAC

Output Message(s):

RST:FAC
RST:VT1FAC
RST:DS1SFAC

Input Appendix(es):

APP:RANGES

Other Manual(s):
235-105-220 Corrective Maintenance

RC/V View(s):

8.1 [OFFICE PARAMETERS (MISCELLANEOUS)]
5.5 (TRUNK MEMBER)
INIT:SCCP

Software Release: 5E14 and later
Command Group: CCS
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Requests an initialization of named table(s) in the selected common channel signaling (CCS) global switching module (GSM). If the option LEVEL is not given, then all SCCP tables will be initialized.

WARNING: All initializations will affect SCCP functionality to some degree. Some may be service affecting.

2. FORMAT

INIT:SCCP,SM=a[,LEVEL=b];

3. EXPLANATION OF MESSAGE

a = CCS GSM number.

b = The level of initialization. Valid value(s):

GTTFIXED = Global title translation (GTT) fixed digit table.
GTTINFO = GTT information table.
GTTINIT = All GTT tables (GTTINFO, GTTFIXED, GTTTBL, and GTTTTRAN).
GTTBL = GTT table.
GTTTRAN = GTT area table.
GTTTT = GTT type table.
SCMGINIT = All SCCP NM tables (static and dynamic).
SCMGSTAT = SCCP NM static table.

4. SYSTEM RESPONSE

PF = Printout follows. An INIT:SCCP output message follows in response to the request.

NG = No good. Valid supplemental reasons are:

SCCP NOT LOADED ON SM = The specified SM is unequipped or does not have an SCCP platform provisioned.
SCCP NOT OPERATIONAL ON SM = SCCP is in the process of being provisioned on the specified SM (growth state).

RL = Retry later. The only valid reason is:

SM NOT AVAILABLE = Command can not be processed because the specified SM is not accessible.
5. REFERENCES

Output Message(s):

INIT:SCCP
INIT:SM-A

Software Release: 5E14 - 5E16(1)
Command Group: SYSRCVY
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Requests initialization of the selected switching modules (SMs) at the specified level. The initialization level may be a selective initialization (SI), a full initialization (FI), or a power-up (PWRUP) initialization as specified. In addition, a full pump of the SM may be specified for a full or selective initialization. Three types of pumps are possible: The normal (fast) pump, broadcast pump which pumps text images of like SMs simultaneously to reduce total pump time, and a backup pump which does not use special hardware but performs much slower.

If a single SM initialization is requested, that SM will be initialized immediately. If a range of SMs have an initialization requested, the in-service SMs will be initialized in numerical order, by SM type. All host SMs (HSMs) initialize first (numerically), all non-remote SMs (RSMs) [local SMs (LSMs), optically remoted SM (ORMs), distinctive remote SMs (DRMs) and two-mile ORM (TRMs)] are initialized next (numerically, regardless to SM type), and RSMs are initialized last (numerically). SMs in special growth will be initialized after all in-service SMs, and are initialized in numerical order. For broadcast pump and power-up initialization, RSMs are initialized in numerical order after all other SMs, which are initialized immediately. In addition to SM types, the user can also specify configuration types. For example, if HSM and LOADED are specified, then only an SM that is both HSM type and LOADED configuration will be initialized. Further, if HSM, LSM, BASIC, and LOADED are specified, then any SM that is either HSM or LSM type, and is either BASIC or LOADED configuration will be initialized. Multiple ranges of SMs (up to 10) can also be specified. For example, 3&6-9-12-16&25 means that SMs 3 to 6, 9, 12, and 16 to 25 will be initialized provided they match the necessary criteria. If an SM cannot be successfully initialized, (such as, loss of communication), the initialization sequence will pause until the problem is cleared, or the initialization request is cancelled (Format 4). Manual SM initialization requests will attempt to clear any isolation conditions prior to the initialization. Pending initialization requests may be canceled by selecting the NOINIT level as shown below.

WARNING: All service in this unit will be lost for the duration of the initialization. A request for a pump may cause a loss of calls during the pump.

2. FORMAT

[1] INIT:SM=a[&b][-]...,FI[,BCST|,PUMP|,NPUMP|,BPUMP][,LSM][,HSM][,RSM][,ORM][,TRM][,DRM][,c][,d][,e][,f][,g];

[2] INIT:SM=a[&b][-]...,SI[,PUMP|,NPUMP|,BPUMP][,LSM][,HSM][,RSM][,ORM][,TRM][,DRM][,c][,d][,e][,f][,g];

[3] INIT:SM=a[&b][-]...,PWRUP[,LSM][,HSM][,RSM][,ORM][,TRM][,DRM][,c][,d][,e][,f][,g];

[4] INIT:SM=a[&b][-]...,NOINIT[,LSM][,HSM][,RSM][,ORM][,TRM][,DRM][,c][,d][,e][,f][,g];

3. EXPLANATION OF MESSAGE

Note: Refer to the Acronym section of the Input Messages manual for the full expansion of acronyms shown in the format.
BCST = Perform a full SM pump with the initialization. A broadcast pump will be used. If this fails, no attempt is made to revert to any other type of pump. This is the recommended option to request a full pump of multiple SMs.

BPUMP = Perform a full SM pump using the backup pump function. This pump uses the control time slots (no special hardware) and may succeed when a normal pump fails; however, it is at least 16 times slower than the normal pump. This option should be used for a pump peripheral controller (PPC) duplex failure in the communication module (CM) or failure of the bootstrapper (BTSR) hardware in the SM.

FI = Full initialization. Clear all calls.

NOINIT = No initialization. Cancel a previous initialization request.

NPUMP = Perform a full SM pump using the normal pump function. Only NPUMP will be used. No attempt will be made to switch to BPUMP if any errors are encountered.

PUMP = Perform a full SM pump with the initialization. A normal pump (NPUMP) will be used unless a failure occurs, in which case a backup pump (BPUMP) will be selected automatically. This is the recommended option to request a full pump of a single SM.

PWRUP = Power-up initialization. This is the same as the FI option plus clearing all of processor memory. It simulates a power-up of the SM. As in an actual power-up, RSMs will request a full SM pump (PUMP), and non-RSMs will request a broadcast pump (BCST).

SI = Selective initialization. Clear all transient calls; save stable calls.

a = SM number, or a lower limit of a range of SM numbers.

b = Upper limit of a range of SM numbers.

c = SM basic configuration. Valid value(s):
   BASIC
   CNFG000

d = SM standard configuration. Valid value(s):
   CNFG001
   STANDARD

e = SM loaded configuration. Valid value(s):
   CNFG002
   LOADED

f = SM signaling configuration. Valid value(s):
   CNFG003
   SIGNALING

g = SM-2000 configuration. Valid value(s):
   CNFG2K00
   SM2000
4. SYSTEM RESPONSE

**IP**
- In progress. The message was accepted and the request is in progress.

**NG**
- No good. Valid value(s):
  - GENERIC UTILITIES ACTIVITY PROHIBIT ACTION = Generic utilities breakpoints in the SM must be cleared before the request can be accepted.
  - ILLEGAL LEVEL/PUMP COMBINATION = Illegal pump option was specified.
  - INTERNAL ERROR = Request could not be handled due to system software problems.
  - INVALID SM RANGE/TYPE COMBINATION = Request did not include an SM of the specified type.
  - NO INIT LEVEL SPECIFIED
  - ODD GROWTH IN PROGRESS = Office-dependent data (ODD) growth activity must be completed before request can be accepted.

**OK**
- Good. The message was accepted and the action completed (NOINIT only).

5. REFERENCES

Input Message(s):

```
SET:MINMODE-SM
```

Output Message(s):

```
INIT:SM-LVL-SUM
```

Other Manual(s):

235-105-220  Corrective Maintenance

235-105-250  System Recovery Procedures

MCC Display Page(s):

1800 (INH & RCVRY CNTL)
INIT:SM-B

Software Release: 5E16(2) and later
Command Group: SYSRCVY
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Requests initialization of the selected switching modules (SMs) at the specified level. The initialization level may be a selective initialization (SI), a full initialization (FI), or a power-up (PWRUP) initialization as specified. In addition, a full pump of the SM may be specified for a full or selective initialization. Three types of pumps are possible. The normal (fast) pump, broadcast pump which pumps text images of like SMs simultaneously to reduce total pump time, and a backup pump which does not use special hardware but performs much slower.

If a single SM initialization is requested, that SM will be initialized immediately.

If a range of SMs have an initialization requested, the in-service SMs will be initialized in numerical order, by SM type. All host SMs (HSMs) initialize first (numerically), all non-remote SMs (RSMs) [local SMs (LSMs), optically remoted SMs (ORMs), distinctive remote SMs (DRMs) and two-mile ORMs (TRMs)] are initialized next (numerically, regardless to SM type), and RSMs are initialized last (numerically). SMs in special growth will be initialized after all in-service SMs, and are initialized in numerical order. For broadcast pump and power-up initialization, RSMs are initialized in numerical order after all other SMs, which are initialized immediately.

In addition to SM types, the user can also specify configuration types. For example, if HSM and LOADED are specified, then only an SM that is both HSM type and LOADED configuration will be initialized. Further, if HSM, LSM, BASIC, and LOADED are specified, then any SM that is either HSM or LSM type, and is either BASIC or LOADED configuration will be initialized.

Multiple ranges of SMs (up to 10) can also be specified. For example, 3&&6-9-12-16&&25 means that SMs 3 to 6, 9, 12, and 16 to 25 will be initialized provided they match the necessary criteria.

If an SM cannot be successfully initialized, (such as, loss of communication), the initialization sequence will pause until the problem is cleared, or the initialization request is cancelled (Format 4).

Manual SM initialization requests will attempt to clear any isolation conditions prior to the initialization.

Pending initialization requests may be canceled by selecting the NOINIT level as shown below.

WARNING: All service in this unit will be lost for the duration of the initialization. A request for a pump may cause a loss of calls during the pump.

2. FORMAT

   . . .[,LSM][,HSM][,RSM][,ORM][,TRM][,DRM][,c][,d][,e]. . .
   . . .[,f][,g][,h];

   . . .[,HSM][,RSM][,ORM][,TRM][,DRM][,c][,d][,e][,f][,g][,h];

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3. EXPLANATION OF MESSAGE

**NOTE:** Refer to the Acronym section of the Input Messages manual for the full expansion of acronyms shown in the format.

**BCST**

= Perform a full SM pump with the initialization. A broadcast pump will be used. If this fails, no attempt is made to revert to any other type of pump. This is the recommended option to request a full pump of multiple SMs.

**BPUMP**

= Perform a full SM pump using the backup pump function. This pump uses the control time slots (no special hardware) and may succeed when a normal pump fails; however, it is at least 16 times slower than the normal pump. This option should be used for a pump peripheral controller (PPC) duplex failure in the communication module (CM) or failure of the bootstrapper (BTSR) hardware in the SM.

**FI**

= Full initialization. Clear all calls.

**NOINIT**

= No initialization. Cancel a previous initialization request.

**NPUMP**

= Perform a full SM pump using the normal pump function. Only NPUMP will be used. No attempt will be made to switch to BPUMP if any errors are encountered.

**PUMP**

= Perform a full SM pump with the initialization. A normal pump (NPUMP) will be used unless a failure occurs, in which case a backup pump (BPUMP) will be selected automatically. This is the recommended option to request a full pump of a single SM.

**PWRUP**

= Power-up initialization. This is the same as the FI option plus clearing all of processor memory. It simulates a power-up of the SM. As in an actual power-up, RSMs will request a full SM pump (PUMP), and non-RSMs will request a broadcast pump (BCST).

**SI**

= Selective initialization. Clear all transient calls; save stable calls.

**a**

= SM number, or a lower limit of a range of SM numbers.

**b**

= Upper limit of a range of SM numbers.

**c**

= SM basic configuration. Valid value(s):

- **BASIC**
- **CNFG000**

**d**

= SM standard configuration. Valid value(s):

- **CNFG001**
- **STANDARD**
e  = SM loaded configuration. Valid value(s):
    CNFG002
    LOADED

f  = SM signaling configuration. Valid value(s):
    CNFG003
    SIGNALING

g  = SM-2000 configuration. Valid value(s):
    CNFG2K00
    SM2000

h  = PowerPC® SM-2000 configuration. Valid value(s):
    CNFG2KPPC
    SM2KPPC

4. SYSTEM RESPONSE

   IP   = In progress. The message was accepted and the request is in progress.

   NG   = No good. May also include:
          - GENERIC UTILITIES ACTIVITY PROHIBIT ACTION = Generic utilities breakpoints in the
            SM must be cleared before the request can be accepted.
          - ILLEGAL LEVEL/PUMP COMBINATION = Illegal pump option was specified.
          - INTERNAL ERROR = Request could not be handled due to system software problems.
          - INVALID SM RANGE/TYPÉ COMBINATION = Request did not include an SM of the specified
            type.
          - NO INIT LEVEL SPECIFIED
          - ODD GROWTH IN PROGRESS = Office-dependent data (ODD) growth activity must be completed
            before request can be accepted.

   OK   = Good. The message was accepted and the action completed (NOINIT only).

5. REFERENCES

Input Message(s):
   SET:MINMODE-SM

Output Message(s):
   INIT:SM-LVL-SUM

Other Manual(s):
235-105-220  Corrective Maintenance
235-105-250  System Recovery Procedures

MCC Display Page(s):
1800  INH & RCVRY CNTL
INIT:SM-SPP

Software Release: 5E14 and later
Command Group: SYSRCVY
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Requests a single process purge (SPP) of a named process in a selected switching module (SM). The named process ID (PID) may be either a system process or terminal process. Refer to the APP:PID-SM appendix for a list of the switching module system process PIDs.

WARNING: This message will purge the requested process. Any activity associated with this process currently in progress will be killed. This may result in other asserts or audits as the system cleans up.

2. FORMAT

INIT:SM=a,SPP,PID=b[-c];

3. EXPLANATION OF MESSAGE

Note: Refer to the Acronym section of the Input Messages manual for the full expansion of acronyms shown in the format.

a = SM number.
b = Process number to be purged. The process may be either a system process or a terminal process. If the PID refers to a terminal process, a uniqueness number must be included.
c = Uniqueness number of the specified terminal process PID (used only for a terminal process).

4. SYSTEM RESPONSE

IP = In progress. The message was accepted and the request is in progress.
NG = No good. The message was not accepted because:
- INVALID PID = An illegal value was specified for PID.
- PID NOT ACTIVE = The specified PID is no longer associated with an active process.
- SM 'a' is not equipped = The SM specified ('a') does not exist.

5. REFERENCES

Output Message(s):

INIT:SM-LVL-SUM

Input Appendix(es):
APP: PID-SM

Other Manual(s):
235-105-220 Corrective Maintenance
235-105-250 System Recovery
INIT:UC

Software Release: 5E14 and later
Command Group: SFTUTIL
Application: 5,3B
Type: Input

1. PURPOSE

Requests that the administration module generic access package (GRASP) be informed that a working utility circuit has been installed so that GRASP will again accept trace and hardware breakpoint definitions, reset the utility circuit if an error occurred, or end the GRASP session.

2. FORMAT

INIT:UC[,END][,UCL];

3. EXPLANATION OF MESSAGE

END = End the GRASP session and cause GRASP to die if no traces or breakpoints are set. Using END with UCL will cause GRASP to die even if traces or breakpoints are set.

UCL = Perform the initialization unconditionally, even if no error has been detected.

4. SYSTEM RESPONSE

Refer to the APP:SYS-RESPONSE appendix for an explanation of general system responses.

NG = No good. Valid value(s):
- STATE ERROR = The circuit is already initialized, or a trace or breakpoint is defined when trying to end GRASP.
- UC IS FUNCTIONAL = No failure has been detected.
- UC WOULD NOT INITIALIZE = The circuit still would not respond. Hardware breakpoint and trace definitions will continue to be rejected.

RL = Retry later. The system is in an overload condition or completing a previous OP:UMEM message.

?A = Action field or command code contains an error. Valid value(s):
- INVALID KEYWORD = Not a valid action in a WHEN action list.

5. REFERENCES

Input Message(s):

OP : UMEM
INIT:ULARP

Software Release: 5E14 and later
Command Group: SYSRCVY
Application: 5,3B
Type: Input

1. PURPOSE

Initializes the UNIX® level automatic restart process (ULARP). This action restarts any ULARP-controlled process that is not executing. It will also start any UNIX® level process that has had a record added to the equipment configuration data base (ECD) and is not yet executing.

2. FORMAT

INIT:ULARP;

3. EXPLANATION OF MESSAGE

No variables.

4. SYSTEM RESPONSE

OK = Good. Indicates an attempt to initialize ULARP. Error information is output in the form of processor recovery messages and REPT:ULARP output messages.

PF = Printout follows. Followed by the INIT:ULARP output message.

5. REFERENCES

Input Message(s):

OP:ULARP–COM
OP:ULARP–PROC

Output Message(s):

INIT:ULARP
OP:ULARP–COM
OP:ULARP–PROC
REPT:ULARP

Other Manual(s):

235-105-110 System Maintenance Requirements and Tools
235-105-210 Routine Operations and Maintenance
235-105-220 Corrective Maintenance
INIT:UMEM

Software Release: 5E14 and later
Command Group: SFTUTIL
Application: 5,3B
Type: Input

1. PURPOSE

Specifies the definition of an administrative module (AM) generic access package (GRASP) trace to be set up. The trace enters the NEW state with the successful completion of the input message.

The AM must be equipped with a UN615 utility circuit pack in at least the active control unit (CU) to use this feature. The UN615 installs in slot 60-118. The equipment configuration database (ECD) entry for the UN615 should also be updated when the pack is installed. The form is "ucb". The key is "CU", "0" or "1" (depending on which CU), "UC", "0". Field 21 ("major_status") should be "OOS" and field 27 ("mv") should be "0x2".

2. FORMAT

INIT:UMEM[(,UID=a|PID=b)],[,ADDR={c&&d|c[,L=e|NL=f]}[,STORE=g][,STKADD=h[,STKSZ=i]][,STOP=FULL][[,COND=j][,j][,j]][:WORD];

3. EXPLANATION OF MESSAGE

FULL = The transfer trace will stop collecting data and will enter the STOPPED state when the memory is filled with data. Without this option, the trace will continue to collect data, overwriting the oldest data, until stopped by an INH:UMEM input message.

WORD = Interpact all addresses and lengths in terms of words. If this option is omitted, they are assumed to be byte values.

a = Utility ID number of the target process.

b = Process ID number of the target process.

c = Starting byte address of the range to which tracing will be restricted. The ADDR keyword cannot be used when STORE=FUNCTION. Ending byte address of the range if NL option is used.

If STORE=FUNCTION or STORE=DATAFUNC is specified with an address range then the form of the range is restricted. The restriction is that the left most hex digits of the starting and ending addresses must be equal. All of the other hex digits in the starting address must be "0"s and all of the other hex digits in the ending address must be "F"s. Examples of valid ranges: 0x123000 - 0x123FFF, 0x10000 - 0x1FFFF.

d = Ending byte address of the range to which tracing will be restricted. When specifying UID, TRANSFER, DATA, or TRANDATA traces, the address range can be arbitrary. When specifying FUNCTION, FUNCPAR, or DATAFUNC traces, however, the starting and ending addresses must be of a form where the leftmost hex digits of both are equal, and the rightmost digits of the starting address are all "0" and the rightmost digits of the ending address are "F". For example, 0x123000 - 0x123FFF or 0x10000 - 0x1FFFF.

e = Length of the range of addresses to which tracing will be restricted. The default is four bytes unless a range is explicitly stated.
**f**  = Length of the range of addresses to which tracing will be restricted where the starting address is calculated as ADDR -f + 1.

**g**  = Information to be stored. Valid value(s):
- **DATA** = Data accesses for the specified address or range of addresses will be stored.
- **DATAFUNC** = Both information for data history traces over a specified address range and function calls with parameters passed are stored. As with **FUNCPAR**, a stack start address and a stack size may be specified.
- **FUNCPAR** = Function calls and parameters passed for the function will be stored. A stack start address and a stack size may also be specified with this trace type. The ADDR keyword cannot be used when **STORE=FUNCPAR**.
- **FUNCTION** = Both function call and return instructions will be stored with the address of the instruction and the address branched to.
- **TRANDATA** = Information for both data history trace and transfer trace will be stored.
- **TRANSFER** = Both changes in utility IDs and branches will be stored. This is the default if the **STORE** option is not specified.
- **UID** = Store only changes in utility IDs will be stored. This gives a longer history but less detail.

**h**  = The stack start address for the process being traced. This is an optional input that can only be specified if **STORE=FUNCPAR** or **STORE=DATAFUNC**. The default **STKADD** is H'6A0000.

Be aware that each sub-process within the processes of OKP, SMKP and RCKP has its own private stack.

**i**  = The size of the user stack specified with the stack start address. The default **STKSIZ** is H'10000. If a stack address and stack size are specified, they must specify an address range as described in the previous section. For example, the default stack address is 0x6A0000 and stack size is 0x1000. This specifies an address range of 0x6A0000 through 0x6A0FFF. A function with parameters trace uses two triggers.

**j**  = Match condition to inhibit a running trace. GRASP cannot trace across an initialization, nor control the dual access utility circuit in an off-line control unit (CU). Valid value(s):
- **E**  = To match on external input using the AM backplane.
- **M**  = To match on a maintenance reset function (MRF).
- **S**  = To match on a stop-and-switch.

### 4. SYSTEM RESPONSE

**NG**  = No good. Valid value(s):
- **STATE ERROR** = A trace is already defined.
- **UC ERR** = The utility circuit is unavailable.

**PF**  = Printout follows. Followed by the **INIT:UMEM** output message.

**RL**  = Retry later or wait for previous **OP:UMEM** to complete. The system is in an overload condition.

### 5. REFERENCES
Input Message(s):

ALW: UMEM
CLR: UMEM
INH: UMEM
OP: ST-PROC
OP: UMEM
OP: UTIL

Output Message(s):

INH: UMEM
INIT: UMEM
OP: UTIL
36. LNUPD
LNUPD:LN

Software Release: 5E14 and later
Command Group: CCS
Application: CNI
Type: Input

1. PURPOSE

Initiates the updating of the software of all SS7 nodes or a single SS7 node.

2. FORMAT

LNUPD:LN={a-b | ALL}:[DEST=c];

3. EXPLANATION OF MESSAGE

a = The group number of the link node. The valid range is 00 to 63.
b = The member number of the link node. The valid range is 1 to 15.
c = The specified destination output class. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

PF = Followed by the LNUPD LN or the REPT LNUPD LN output messages.
RL = Request cannot be executed now due to unavailable system resources.
?D = Data Field contains an error.

This input message results in the updating of the software of a single or all SS7 nodes(s).

5. REFERENCES

Input Message(s):

OP:LNUPD
STOP:LNUPD

Output Message(s):

LNUPD:LN
OP:LNUPD
REPT:LNUPD
STOP:LNUPD
Input Appendix(es):

APP : RANGES
37. LOAD
LOAD:ADDR

Software Release: 5E14 and later
Command Group: SFTUTIL
Application: 5,3B
Type: Input

1. PURPOSE

Requests that a virtual address be loaded with specified data as an action associated with a breakpoint.

2. FORMAT

LOAD:ADDR=a[,OFF=b][,L=c][:WORD]:DATA,D=d;

3. EXPLANATION OF MESSAGE

WORD = Indication that addresses and lengths are to be interpreted in terms of words. If this option is omitted, addresses and lengths are assumed to be byte values.

a = The starting virtual address for the data in octal, hexadecimal, or decimal notation. Assumed to be a byte address unless the WORD option is used.

The address must be in a segment which is not write-protected. Note that text segments are usually write-protected.

b = Single offset or list of up to five offsets. Omission of the keywords implies no indirect addressing. Offsets are bytes unless the WORD option is used.

c = The length of the load, assumed to be bytes unless the WORD option is used. The default for an omitted or zero length is 1. The specified length must agree with the data as explained below.

d = One or more numbers representing data to be loaded. If more than one number is given, all but the last are assumed to represent four bytes of data. The last or only number is taken to represent the number of bytes of data (up to four) needed to make the data list correspond to the length ‘c’.

4. SYSTEM RESPONSE

IP = In progress. The message has been added to the WHEN action list.

RL = Retry later. The system is in an overload condition.

?I = Syntax error. Valid value(s):
- INCONSISTENT DATA (L + D) = Length and amount of data specified do not agree.
- MISSING KEYWORD = Utility identification (UID) or process identification (PID) is required except in a WHEN action list.
- RANGE ERROR (L) = Length too long.

5. REFERENCES

Input Message(s):
Output Message(s):

LOAD: ADDR
LOAD: PMEM
LOAD: REG
LOAD: UVAR
LOAD:DFC-PUMP

Software Release: 5E14 and later
Command Group: FHADM
Application: 5,3B
Type: Input

1. PURPOSE

Download the pumpcode to the small computer system interface (SCSI) disk file controller (DFC). The control of SCSI host adaptor (HA) DFC will be transferred from firmware to pumpcode after the pumpcode is successfully downloaded. The input message can also be used to request the administrative module (AM) disk driver to automatically perform the whole pump procedure.

2. FORMAT

[1] LOAD:DFC a;PUMP [:FN "b" [,CHECKSUM]]!

3. EXPLANATION OF MESSAGE

CHECKSUM = When this option is used, the integrity of the pumpcode contained in the specified file will be verified; no pumpcode downloading will occur.

FU
This option is normally used in a software update messages file. It says that if the DFC does not exist or if the DFC is not a UN373 or if the DFC is not active, this will successfully complete without doing anything to the DFC. This is done to minimize human intervention while making a change to a DFC pumpfile.

a = Member number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

b = Full pathname that specifies the file containing pumpcode to be downloaded into SCSI HA DFC or to be checked for the integrity of its data. The specified file name will be ignored when the downloading is to be done automatically by the AM disk driver since the driver will use the information stored in the DFC’s unit control block (UCB) record to build the pumpcode file name. The file specified in the UCB record must exist in the directory /dfc, and the file name derived from the UCB record has the format xyz, where x is the 4-alphanumeric characters packcode value (that is, u214) stored in the packcode field of the UCB, y is the 2-digit value stored in the issue field of the UCB, and y is the 2-digit value stored in the version field of the specified DFC’s UCB. An example of a typical pumpcode file name is u21471; the pumpcode version implied by this filename is 7, the pumpcode issue is 1, and the packcode number is u214.

4. SYSTEM RESPONSE

PF = Printout follows. Followed by the LOAD:DFC-RAM output message.

5. REFERENCES

Input Message(s):
LOAD: DFC-RAM

Output Message(s):
  LOAD: DFC-PUMP
  REPT: DFC-PUMP

Input Appendix(es):
  APP: RANGES

MCC Display Page(s):
  (DISK FILE SYSTEM ACCESS)
LOAD:DFC-RAM

Software Release: 5E14 and later
Command Group: FHADM
Application: 5,3B
Type: Input

1. PURPOSE

Load a specified pumpcode file into the SCSI disk file controller's (DFC's) random access memory (RAM) area. The message can also be used to verify the integrity of a pump file.

2. FORMAT

LOAD:DFC=a:RAM:FN="b",CHECKSUM;

3. EXPLANATION OF MESSAGE

CHECKSUM = When this option is used the integrity of the pumpcode contained in the specified file will be verified; no downloading will occur.

a = Member number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

b = Full pathname that specifies the file containing pumpcode to be downloaded into SCSI DFC's RAM.

4. SYSTEM RESPONSE

PF = Printout follows. Followed by the LOAD:DFC output message.

5. REFERENCES

Input Message(s):
LOAD:DFC-PUMP

Output Message(s):
LOAD:DFC-RAM

Input Appendix(es):
APP: RANGES

MCC Display Page(s):
(DISK FILE SYSTEM ACCESS)
LOAD:LIB

Software Release: 5E14 and later
Command Group: ADMIN
Application: 5
Type: Input

1. PURPOSE

Requests that the existence of the specified library program be verified and loads the scratch memory area of the listed switching modules (SMs) with the library program. This input message will not complete if a program is running in an affected SM, or if the specified SM is currently loaded or running under another team’s control. In the administrative module (AM), it will not complete if the specified team has a program already running.

2. FORMAT

LOAD:LIB:TEAM=a[,AM]|{,SM=c|,SM=d&|e}],PROG=b;

3. EXPLANATION OF MESSAGE

Note: Refer to the Acronym section of the Input Messages manual for the full expansion of acronyms shown in the format.

a = The team number to which this input message applies. This number is used so that more than one person may test at the same time, using different team numbers. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

b = The name of the library program desired. The program must exist on the disk in two or three forms. There must be a progname.info file which contains the generic compatibility, a progname.im if it is to be used in the SM, and a progname.cp if it is to be used in the AM.

c = A list of SM numbers to which this message should be directed. The team specified must have a library program running in the SM(s) listed. A range could be used instead, as indicated.

d = Lower limit of a range of SM numbers.

e = Upper limit of a range of SM numbers.

4. SYSTEM RESPONSE

NG = No good. Either the team number or SM number(s) is illegal. SMs that have not initialized cannot be sent messages.

PF = Printout follows. Message has been sent to the SMs/AM or team specified.

5. REFERENCES

Output Message(s):

LOAD:LIB

Input Appendix(es):
LOAD:MHD-FIRMWARE
Software Release: 5E14 and later
Command Group: FHADM
Application: 3B
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Requests that the executable microcode and/or control information be loaded into the control memory of a small computer system interface (SCSI) moving head disk (MHD). The downloaded code will be effective after successful completion of this message.

WARNING: This input message will format the MHD. All existing data on the disk drive will be destroyed.

2. FORMAT

LOAD:MHD=a:FIRMWARE,FN="b";

3. EXPLANATION OF MESSAGE

a = MHD member number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

b = Full pathname of the firmware data specification file.

4. SYSTEM RESPONSE

PF = Printout follows. Followed by the LOAD:MHD-FIRMWARE output message.

5. REFERENCES

Output Message(s):

LOAD:MHD-FIRMWARE

Input Appendix(es):

APP:RANGES
LOAD:MHD

Software Release: 5E14 and later
Command Group: FHADM
Application: 5,3B
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Loads new defect location data on to a moving head disk (MHD). The data is used to map around defective areas on the disk media.

For an SMD MHD, the defect specification file data replaces the "Manufacturer's" defect table (MFGR).

For an SCSI MHD, the defect specification file data is added to the "Combined" defect table (COMB).

Note: For SCSI disks, after new defect blocks are loaded, all the previous information about the bad blocks (defects) become invalid. For example, bad logical block number 3 is not physically the same block after being loaded. It is now a good block number 3. Therefore, only new defect(s) detected since the previous LOAD:MHD message should be included in the specification file used for loading new defects into the "Combined" defect table.

WARNING: Incorrect use of this message can degrade system performance and result in disk data mutilation. This message should not be used without expert technical assistance.

2. FORMAT

LOAD:MHD=a:DEFECT:DATA,FN="b";

3. EXPLANATION OF MESSAGE

a = MHD member number.

b = Full pathname of the defect specification file.

- For SMD disks, the file contains one line for each defect. The format of each line is as follows:

```
CYL     HEAD     SECTOR
___     ____     ______
|       |         |___ Sector Number (decimal)
|       |         |_____________ Head Number (decimal)
|_____________________ Cylinder Number (decimal)
```

The entries must be created in increasing cylinder number order, and in increasing head number order when on the same cylinder. The sector number is optional.

- For SCSI disks, the file contains one line for each disk block number to be reassigned. The entries must be created in increasing block order number. All the
specified block numbers will be re-assigned by the disk-drive's embedded controller.

- An empty (zero length) specification file results in an empty defect table being written to the disk.

4. SYSTEM RESPONSE

PE  = Printout follows. Followed by the LOAD:MHD-DEFECT output message.

5. REFERENCES

Input Message(s):

DUMP:MHD-DEFECT
INIT:MHD

Output Message(s):

LOAD:MHD-DEFECT
LOAD:PMEM

Software Release: 5E14 and later
Command Group: SFTUTIL
Application: 5,3B
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Loads an administrative module (AM) physical byte address with specified data as an immediate operation or as a generic access package (GRASS) breakpoint action.

WARNING: This message overwrites data in the memory of the AM. It should not be used without expert technical assistance.

2. FORMAT

LOAD:PMEM=a[,L=b][:WORD]:DATA,D=c{!;} 

3. EXPLANATION OF MESSAGE

- **WORD** = Indication that addresses and lengths are to be interpreted in terms of words. If this option is omitted, addresses and lengths are assumed to be byte values.
- **a** = Starting physical byte address of the location in main memory where the load is to be done.
- **b** = The length of the load, assumed to be bytes unless the WORD option is used. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual. The length must be a multiple of 4 and must agree with the amount of data.
- **c** = One or more numbers representing data to be loaded. If more than one number is given, each is assumed to represent four bytes of data.

4. SYSTEM RESPONSE

- **IP** = In progress. The message has been added to the WHEN action list.
- **PF** = Printout follows. Followed by the LOAD:PMEM output message.
- **RL** = Retry later. The system is in an overload condition or completing a previous OP:UMEM message.
- **?I** = Syntax error. Valid value(s):
  - **INCONSISTENT DATA (L + D)** Length and amount of data specified do not agree.
  - **RANGE ERROR (L)** Length too long.

5. REFERENCES
Input Message(s):

DUMP:PMEM
LOAD:ADDR
OP:UMEM
WHEN:PID
WHEN:UID

Output Message(s):

LOAD:ADDR
LOAD:PMEM
LOAD:REG
LOAD:UVAR

Input Appendix(es):

APP:RANGES
LOAD:REG

Software Release: 5E14 and later
Command Group: SFTUTIL
Application: 5,3B
Type: Input

1. PURPOSE

Loads an administrative module (AM) register with specified data as a breakpoint action.

2. FORMAT

LOAD:REG=a[,OFF=b][,L=c][:WORD]:DATA,D=d;

3. EXPLANATION OF MESSAGE

WORD = Indicates that lengths are to be interpreted in terms of words. If this option is omitted, lengths are assumed to be byte values.

a = The name of the register to be written. Valid value(s):
   AP = Argument pointer.
   ATBBGR = Register used by the ATB miss routine to temporarily store the bi-directional gating register (BGR).
   ATBPSW = Register used by the ATB miss routine to temporarily store the program status word (PSW) register.
   ATBQ = Register used by the ATB miss routine to temporarily store the 'q' register.
   ATBSAR = Register used by the address translation buffer (ATB) miss routine to temporarily store the store address register (SAR) contents.
   ATBSRCR = Register used by the ATB miss routine to temporarily store the store control register (SCR) contents.
   ATBSDR = Register used by the ATB miss routing to temporarily store the store data register (SDR) content.
   BGR = Bi-directional gating register.
   CAR = Channel address register.
   CDR = Channel data register.
   ERC = Error register (ER) clear.
   FP = Frame pointer.
   HG = Reserved register HG.
   HSR = Hardware status register.
   HSRBG = Bi-directional gating control bits of the hardware status register (HSR).
   IM = Interrupt mask register IM.
   ISC = IS (interrupt source) register clear.
   ISS = Interrupt source (IS) register set.
   PA = Program address register.
   PPR = Pulse point register.
   PSW = Program status word.
   R0 = General register R0.
   R1 = General register R1.
   R2 = General register R2.
   R3 = General register R3.
   R4 = General register R4.
   R5 = General register R5.
R7 = General register R7.
R8 = General register R8.
R9 = General register R9.
R10 = General register R10.
R11 = General register R11.
RNULL = Null register.
RTC = Real time clock.
SBR0 = Segment base register SBR0.
SBR1 = Segment base register SBR1.
SBR2 = Segment base register SBR2.
SBR3 = Segment base register SBR3.
SBR4 = Segment base register SBR4.
SBR5 = Segment base register SBR5.
SBR6 = Segment base register SBR6.
SBR7 = Segment base register SBR7.
SCRATCH0 = JE group temp subgroup scratch register SCRATCH0.
SCRATCH1 = JE group temp subgroup scratch register SCRATCH1.
SDR = Store data register.
SP = Stack pointer.
SSRC = System status register (SSR) clear.
SSRS = SSR set.
SYSBASE = Beginning address of UNIX® RTR Operating System tab.
T0 = JE group temp subgroup scratch register T0.
T1 = JE group temp subgroup scratch register T1.
T2 = JE group temp subgroup scratch register T2.
T3 = JE group temp subgroup scratch register T3.
T4 = JE group temp subgroup scratch register T4.
T5 = JE group temp subgroup scratch register T5.
T6 = JE group temp subgroup scratch register T6.
T7 = JE group temp subgroup scratch register T7.
TIMERS = Timing circuit.
TOPIS = Interrupt stack pointer.
UINT0 = Error microinterrupt hander register UINT0.
UINT1 = Error microinterrupt hander register UINT1.
UINT2 = Error microinterrupt hander register UINT2.
UINT3 = Error microinterrupt hander register UINT3.
UINTER = Shadow error register (uint_er) loaded during an error microinterrupt.

b = Single offset or a list of up to five offsets. Omission of the keywords implies no indirect addressing. Offsets are bytes unless the WORD option is used.

c = The length of the load, assumed to be bytes unless the WORD option is used. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual. The default for an omitted or zero length is 4. The specified length must agree with the data as explained below.

d = The data to be loaded. It is taken to represent the number of bytes of data (up to 4) needed to make the data list correspond to the length 'c'.

4. SYSTEM RESPONSE
IP  = In progress. The message has been added to the WHEN action list.

NG  = No good. Valid value(s):
     - BAD REG NAME

PF  = Printout follows. Followed by the LOAD:REG output message.

RL  = Retry later. The system is in an overload condition or completing a previous OP:UMEM message.

?I  = Syntax error. Valid value(s):
     - INCONSISTENT DATA (L + D) = Length and amount of data specified do not agree.
     - RANGE ERROR (L) = Length too long.

5. REFERENCES

Input Message(s):

COPY:ADDR
COPY:PID
COPY:REG
COPY:UID
COPY:UVAR
OP:UMEM
WHEN:PID
WHEN:UID

Output Message(s):

LOAD:ADDR
LOAD:PMEM
LOAD:REG
LOAD:UVAR

Input Appendix(es):

APP:RANGES

Other Manual(s):
235-105-210   Routing Operations and Maintenance
LOAD:RUTIL

Software Release: 5E12 and later
Command Group: SFTUTIL
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Requests a load of the contents of the specified address at the given common network interface (CNI) ring node with the given data.

Currently the maximum data size allowed for loading is 128 bytes or 32 four-byte words. There must be a one-to-one correspondence between the length of the data to be written and the data provided in 'e'. If there are three bytes of data to be written, there must be three data entries. Similarly if there are five words to be written, there must be five data entries specified.

WARNING: Incorrect use of this input message may interrupt operation of a node on the ring or the whole ring.

2. FORMAT

LOAD:RUTIL=a-b,AP:ADDR=c,{L|NL}=d[:WORD]:D=e-...;

3. EXPLANATION OF MESSAGE

WORD = Length of the load in bytes; if WORD is specified, then 'd' is the number of four-byte words to load.

a = Group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

b = Member number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

c = Start address of the load in hexadecimal.

d = Length of the load in bytes; if WORD is specified, then 'd' is the number of four-byte words to load. If L is given, then 'c' is taken to be the beginning address to dump. If NL is given, then 'c' is the end address of the dump; the start address is calculated by end address minus total number of bytes to dump.

e = One or more data items to be loaded in hexadecimal; a dash separated list may be specified.

4. SYSTEM RESPONSE

PF = Printout follows. Followed by the LOAD:RUTIL output message.

5. REFERENCES
Input Message(s):

ALW : RUTIL
CLR : RUTIL
DUMP : RUTIL
INH : RUTIL
OP  : RUTIL
WHEN: RUTIL

Output Message(s):

ALW : RUTIL
CLR : RUTIL
DUMP : RUTIL
INH : RUTIL
LOAD : RUTIL
OP  : RUTIL
REPT : RUTIL
WHEN: RUTIL

Input Appendix(es):

APP : RANGES

Other Manual(s):
235-105-110  System Maintenance Requirements and Tools
LOAD:UT-CMP

Software Release: 5E14 and later  
Command Group: SFTUTIL  
Application: 5  
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Requests that a value(s) be loaded into the memory of the specified communication module processor (CMP).

This message may be used together with any of the other CMP generic utility input messages. Refer to the References section of this message. If this message is used together with other generic utility messages, the END:UT-CMP input message may be used to signal the end of the series of messages.

WARNING: The user takes responsibility for any effects on system operation that result from the use of this input message. Know the effects of the message before using it.

2. FORMAT

LOAD:UT:CMP=a,(MATE|PRIM),(ADDR=b|GVAR="c"|SYMIDX=d)[,L=e] [,SIZE=f] [,VAL=g[-g...]{!|;}

3. EXPLANATION OF MESSAGE

MATE            = Execute this input message on the standby CMP.  
PRIM            = Execute this input message on the active CMP.  
a               = CMP number.  
b               = Address to be loaded.  
c               = The symbol name of the global variable to be loaded. The name is entered as a string of up to 15 characters, enclosed in double quotation marks. If the symbol name is greater than 15 characters the symbol index number ‘d’ must be used to enter this input message using symbolic access. The global variable’s symbol index number can be determined by using the DUMP:UT-SYMID input message.  
d               = Symbol index number of this global variable. The symbol index can be determined for this processor by using the DUMP:UT-SYMID input message.  
e               = Total length in bytes of all values to be loaded. Default is 1, maximum is 80. Length divided by size must be a whole number from 1-20.  
f               = Size (number of bytes) of each value to be loaded. Default is 1, maximum is 4.  
g               = Values to be loaded (maximum of 20 listed values).

4. SYSTEM RESPONSE
Refer to the APP:UT-IM-REASON appendix in the Appendixes section of the Input Messages manual.

5. REFERENCES

Input Message(s):

ALW:UT-CMP
CLR:UT-CMP
COPY:UT-CMP
DUMP:UT-CMP
DUMP:UT-SYMID
ELSE:UT-CMP
END:UT-CMP
EXC:UT-CMP
IF:UT-CMP
IF:UT-CMP-ENDIF
INH:UT-CMP
OP:UT-CMP
WHEN:UT-CMP

Output Message(s):

LOAD:UT-CMP

Input Appendix(es):

APP:UT-IM-REASON

Other Manual(s):
235-105-110  System Maintenance Requirements and Tools
LOAD:UT-CMPMSG-A

Software Release: 5E14 only
Command Group: SFTUTIL
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Requests that a value(s) be loaded into the memory of the specified communication module processor (CMP) message handler (CMPMSG).

WARNING: The user takes responsibility for any effects on system operation that result from the use of this input message. Know the effects of the message before using it.

2. FORMAT

LOAD:UT:CMPMSG=a-b,(ADDR=c|GVAR="d"|SYMIDX=e),L=f,SIZE=g,[VAL=h[-h...]];

3. EXPLANATION OF MESSAGE

a = Message switch side.
b = CMPMSG number.
c = Starting address to be loaded in memory.
d = The symbol name of the global variable to be loaded. The name is entered as a string of up to 15 characters, enclosed in double quotation marks. If the symbol name is greater than 15 characters the symbol index number ‘e’ must be used to enter this input message using symbolic access. The global variable’s symbol index number can be determined by using the DUMP:UT-SYMID input message.
e = Symbol index number of this global variable. The symbol index can be determined for this processor by using the DUMP:UT-SYMID input message.
f = Length in bytes of all values to be loaded (default is 1). Length divided by size must be a whole number from 1 - 20.
g = Size, in bytes, of each value to be loaded.
h = Value(s) to be loaded (maximum of 20 listed values). Default is 0.

4. SYSTEM RESPONSE

Refer to the APP:UT-IM-REASON appendix in the Appendixes section of the Input Messages manual.

5. REFERENCES

Input Message(s):
DUMP:UT-CMPMSG
DUMP:UT-SYMID

Output Message(s):

LOAD:UT-CMPMSG

Input Appendix(es):

APP:RANGES
APP:UT-IM-REASON

Other Manual(s):
235-105-110  System Maintenance Requirements and Tools
LOAD:UT-CMPMSG-B

Software Release: 5E15 and later
Command Group: SFTUTIL
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Requests that a value(s) be loaded into the memory of the specified communication module processor (CMP) message handler (CMPMSG).

WARNING: The user takes responsibility for any effects on system operation that result from the use of this input message. Know the effects of the message before using it.

NOTE: This input message is valid on processors of the communications module model 1 and 2. It will be accepted but denied on the communications module model 3. Use the LOAD:UT:MSGS AP input message for equivalent functionality on processors of the communications module model 3.

2. FORMAT

LOAD:UT:CMPMSG=a-b,{ADDR=c|GVAR="d"|SYMIDX=e},L=f,SIZE=g,[VAL=h[-h...]]; 

3. EXPLANATION OF MESSAGE

a = Message switch side.
b = CMPMSG number.
c = Starting address to be loaded in memory.
d = The symbol name of the global variable to be loaded. The name is entered as a string of up to 15 characters, enclosed in double quotation marks. If the symbol name is greater than 15 characters the symbol index number ‘e’ must be used to enter this input message using symbolic access. The global variable’s symbol index number can be determined by using the DUMP:UT-SYMID input message.
e = Symbol index number of this global variable. The symbol index can be determined for this processor by using the DUMP:UT-SYMID input message.
f = Length in bytes of all values to be loaded (default is 1). Length divided by size must be a whole number from 1 - 20.
g = Size, in bytes, of each value to be loaded.
h = Value(s) to be loaded (maximum of 20 listed values). Default is 0.

4. SYSTEM RESPONSE

Refer to the APP:UT-IM-REASON appendix in the Appendixes section of the Input Messages manual.
5. REFERENCES

Input Message(s):

DUMP:UT-CMPMSG
DUMP:UT-SYMID

Output Message(s):

LOAD:UT-CMPMSG

Input Appendix(es):

APP:UT-IM-REASON

Other Manual(s):

235-105-110 System Maintenance Requirements and Tools
LOAD:UT-DNUS
Software Release: 5E14 and later
Command Group: SFTUTIL
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE
Requests that a value(s) be loaded into the memory of the specified digital networking unit - SONET (DNU-S).

WARNING: The user is responsible for any effects on system operation that result from the use of this input message. Know the effects of the message before using it.

2. FORMAT
LOAD:UT:DNU-S=a-b[,MATE],{ADDR=c|GVAR="d"|SYMIDX=e}[,L=f] [,SIZE=g] [,VAL=h[[-h]...[-h]]] !|;)

3. EXPLANATION OF MESSAGE
MATE = Execute this input message on the standby DNU-S. The default is the active DNU-S.

a = Switching module (SM) number.

b = DNU-S number.

c = Physical Address of the location to start the LOAD.

d = The symbol name of the global variable to be loaded. The name is entered as a string of up to 15 characters, enclosed in double quotation marks. If the symbol name is greater than 15 characters the symbol index number ‘e’ must be used to enter this input message using symbolic access. The global variable's symbol index number can be determined by using the DUMP:UT-SYMID input message.

e = Symbol index number of this global variable. The symbol index can be determined for this processor by using the DUMP:UT-SYMID input message.

f = Total length in bytes of all values to be loaded (1 - 8, default is 1). Length divided by size (variable 'g') must be a whole number.

h = Size (number of bytes) of each value to be loaded. Default is 1, maximum is 4.

4. SYSTEM RESPONSE
Refer to the APP:UT-IM-REASON appendix in the Appendixes section of the Input Messages manual.

5. REFERENCES
Input Message(s):

DUMP:UT-DNUS
DUMP:UT-SYMD
EXC:UT-DNUS

Output Message(s):

LOAD:UT-DNUS

Input Appendix(es):

APP:UT-IM-REASON

Other Manual(s):
235-105-110 System Maintenance Requirements and Tools
LOAD:UT-FPC-A

Software Release: 5E14 only
Command Group: SFTUTIL
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Requests that a value be loaded into the memory of the specified foundation peripheral controller (FPC).

WARNING: The user is responsible for any effects on system operation that result from the use of this input message. Know the effects of the message before using it.

2. FORMAT

LOAD:UT;FPC=a, {ADDR=b | I0=c | GVAR="d" | SYMIDX=e }, L=f, SIZE=g, VAL=h[-h...-h];

3. EXPLANATION OF MESSAGE

a = FPC number.
b = Starting address to be loaded in memory.
c = The number of the I/O port to be loaded.
d = The symbol name of the global variable to be loaded. The name is entered as a string of up to 15 characters, enclosed in double quotation marks. If the symbol name is greater than 15 characters the symbol index number 'e' must be used to enter this input message using symbolic access. The global variable's symbol index number can be determined by using the DUMP:UT-SYMID input message.
e = Symbol index number of this global variable. The symbol index can be determined for this processor by using the DUMP:UT-SYMID input message.
f = Total length in bytes of all values to be loaded. Default is 1, maximum is 80. Length divided by size must be a whole number from 1-20.
g = Size, in bytes, of each value to be loaded. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual. When loading I/O port, the size must be 1.
h = Values to be loaded (maximum of 20 listed values).

4. SYSTEM RESPONSE

Refer to the APP:UT-IM-REASON appendix in the Appendixes section of the Input Messages manual.

5. REFERENCES

Input Message(s):
LOAD:UT-FPC-B

Software Release: 5E15 and later
Command Group: SFTUTIL
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Requests that a value be loaded into the memory of the specified foundation peripheral controller (FPC).

WARNING:  The user is responsible for any effects on system operation that result from the use of this input message. Know the effects of the message before using it.

NOTE:  This input message is valid on processors of the communications module model 1 and 2.  It will be accepted but denied on the communications module model 3.  Use the LOAD:UT:MSGS AP input message for equivalent functionality on processors of the communications module model 3.

2. FORMAT

LOAD:UT;FPC=a,{ADDR=b|I0=c|GVAR="d"|SYMIDX=e},L=f,SIZE=g, VAL=h[-h...-h];

3. EXPLANATION OF MESSAGE

a = FPC number.

b = Starting address to be loaded in memory.

c = The number of the I/0 port to be loaded.

d = The symbol name of the global variable to be loaded. The name is entered as a string of up to 15 characters, enclosed in double quotation marks. If the symbol name is greater than 15 characters the symbol index number 'e' must be used to enter this input message using symbolic access. The global variable's symbol index number can be determined by using the DUMP:UT-SYMID input message.

e = Symbol index number of this global variable. The symbol index can be determined for this processor by using the DUMP:UT-SYMID input message.

f = Total length in bytes of all values to be loaded. Default is 1, maximum is 80. Length divided by size must be a whole number from 1-20.

g = Size, in bytes, of each value to be loaded. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual. When loading I/0 port, the size must be 1.

h = Values to be loaded (maximum of 20 listed values).

4. SYSTEM RESPONSE

Refer to the APP:UT-IM-REASON appendix in the Appendixes section of the Input Messages manual.
5. REFERENCES

Input Message(s):

DUMP:UT-FPC
DUMP:UT-SYMID
EXC:UT-FPC

Input Appendix(es):

APP: RANGES
APP: UT-IM-REASON

Other Manual(s):

235-105-110  System Maintenance Requirements and Tools
LOAD:UT-IDCU

**Software Release**: 5E14 and later  
**Command Group**: SFTUTIL  
**Application**: 5  
**Type**: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. **PURPOSE**

Requests that a value be loaded into the memory of the specified integrated digital carrier unit (IDCU).

**WARNING**: The user is responsible for any effects on system operation that result from the use of this input message. Know the effects of the message before using it.

2. **FORMAT**

```
LOAD:UT-IDCU=a-b[,MATE],{ADDR=c|GVAR="d"|SYMIDX=e}[,L=f][,SIZE=g][,VAL=h[-h]...[-h]];
```

3. **EXPLANATION OF MESSAGE**

- **MATE**
  - Execute this input message on the standby IDCU. The default is the active IDCU.

- **a**
  - Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Output Messages manual.

- **b**
  - IDCU number. Refer to the APP:RANGES appendix in the Appendixes section of the Output Messages manual.

- **c**
  - Address to be loaded. The address range from h'30000332 to h'300003ff is the unified control interface (UCI) register area.

- **d**
  - The symbol name of the global variable to be loaded. The name is entered as a string of up to 15 characters, enclosed in double quotation marks. If the symbol name is greater than 15 characters the symbol index number 'e' must be used to enter this input message using symbolic access. The global variable's symbol index number can be determined by using the DUMP:UT-SYMID input message.

- **e**
  - Symbol index number of this global variable. The symbol index can be determined for this processor by using the DUMP:UT-SYMID input message.

- **f**
  - Total length in bytes of all values to be loaded (default is 1). Length divided by size (variable 'g') must be a whole number.  
  **Note**: The dumping and loading of the UCI register area cannot overlap with the remainder of the IDCU address range (refer to variable 'c').

- **g**
  - Size (number of bytes) of each value to be loaded. Default is 1, maximum is 4.

- **h**
  - Values to be loaded (maximum of 8 listed values).
4. SYSTEM RESPONSE

Refer to the APP:UT-IM-REASON appendix in the Appendixes section of the Input Messages manual.

5. REFERENCES

Input Message(s):

   DUMP:UT-IDCU
   DUMP:UT-SYMID
   EXC:UT-IDCU

Output Message(s):

   LOAD:UT-IDCU

Input Appendix(es):

   APP:RANGES
   APP:UT-IM-REASON

Other Manual(s):
235-105-110  System Maintenance Requirements and Tools
LOAD:UT-IDCULSI

Software Release: 5E14 and later
Command Group: SFTUTIL
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Requests that a value be loaded into the memory of the specified integrated digital carrier unit (IDCU) loop side interface (LSI).

WARNING: The user is responsible for any effects on system operation that result from the use of this input message. Know the effects of the message before using it.

2. FORMAT

LOAD:UT-IDCULSI=a-b-c[,MATE],{ADDR=d|GVAR="e"|SYMIDX=f}{,i=g}[,SIZE=h],{VAL=i[-i]...[-i]}{!|;}

3. EXPLANATION OF MESSAGE

MATE

= Execute this input message on the standby LSI. The default is to use the active LSI.

a

= Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Output Messages manual.

b

= IDCU number. Refer to the APP:RANGES appendix in the Appendixes section of the Output Messages manual.

c

= LSI number. Refer to the APP:RANGES appendix in the Appendixes section of the Output Messages manual.

d

= Address to be loaded. The address range from 0x4400 to 0x44ff is the unified control interface (UCI) register area.

e

= The symbol name of the global variable to be loaded. The name is entered as a string of up to 15 characters, enclosed in double quotation marks. If the symbol name is greater than 15 characters the symbol index number ‘i’ must be used to enter this input message using symbolic access. The global variable’s symbol index number can be determined by using the DUMP:UT-SYMID input message.

f

Symbol index number of this global variable. The symbol index can be determined for this processor by using the DUMP:UT-SYMID input message.

g

= Total length in bytes of all values to be loaded (1 - 8, default is 1). Length divided by size (variable ‘h’) must be a whole number.

Note: The dumping and loading of the UCI register area cannot overlap with the remainder of the IDCU loop side interface (LSI) address range (refer to variable ‘d’).
\[ h = \text{Size (number of bytes) of each value to be loaded. Default is 1, maximum is 4.} \]

\[ i = \text{Values to be loaded (maximum of 8 listed values).} \]

### 4. SYSTEM RESPONSE

Refer to the APP:UT-IM-REASON appendix in the Appendixes section of the Input Messages manual.

### 5. REFERENCES

**Input Message(s):**

- DUMP:UT-IDCULSI
- DUMP:UT-SYMID
- EXC:UT-IDCULSI

**Output Message(s):**

- LOAD:UT-IDCULSI

**Input Appendix(es):**

- APP:RANGES
- APP:UT-IM-REASON

**Other Manual(s):**

235-105-110  *System Maintenance Requirements and Tools*
LOAD:UT-ISLUCC

Software Release: 5E14 and later
Command Group: SFTUTIL
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Requests that a value be loaded into the memory of the specified integrated services line unit common controller (ISLUCC).

WARNING: The user is responsible for any effects on system operation that result from the use of this input message. Know the effects of the message before using it.

2. FORMAT

LOAD:UT:ISLUCC=a-b[,MATE],[ADDR=c|GVAR="d"|SYMIDX=e][,L=f][,SIZE=g][,VAL=h[-h]...[-h]];

3. EXPLANATION OF MESSAGE

MATE = Execute this input message on the standby ISLUCC. The default is the active ISLUCC.

a = Switching module (SM) number.
b = Line unit number.
c = Address to be loaded.
d = The symbol name of the global variable to be loaded. The name is entered as a string of up to 15 characters, enclosed in double quotation marks. If the symbol name is greater than 15 characters the symbol index number 'e' must be used to enter this input message using symbolic access. The global variable's symbol index number can be determined by using the DUMP:UT-SYMIDX input message.
e = Symbol index number of this global variable. The symbol index can be determined for this processor by using the DUMP:UT-SYMIDX input message.
f = Total length in bytes of all values to be loaded (1 - 8, default is 1). Length divided by size (variable 'g') must be a whole number from 1-8. The dumping and loading of the unified control interface (UCI) register area cannot overlap with the remainder of the common controller (CC) address range (refer to variable 'c').
g = Size (number of bytes) of each value to be loaded. Default is 1, maximum is 4.
h = Values to be loaded (maximum of 8 listed values).

4. SYSTEM RESPONSE

Refer to the APP:UT-IM-REASON appendix in the Appendixes section of the Input Messages manual.
5. REFERENCES

Input Message(s):

- DUMP:UT-ISLUCC
- DUMP:UT-SYMID
- EXC:UT-ISLUCC

Output Message(s):

- LOAD:UT-ISLUCC

Input Appendix(es):

- APP:UT-IM-REASON

Other Manual(s):

235-105-110 System Maintenance Requirements and Tools
LOAD:UT-MCTSI-MH

Software Release: 5E14 and later
Command Group: SFTUTIL
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Requests that a value(s) be loaded into the memory of the specified message handler (MH) unit.

WARNING: The user is responsible for any effects on system operation that result from the use of this input message. Know the effects of the message before using it.

2. FORMAT

LOAD:UT:MCTSI=a-b,MH [,MATE] {ADDR=c | GVAR="d" | SYMIDX=e} [,L=f] [,SIZE=g] [,VAL=h[-h...]}{!|;}

3. EXPLANATION OF MESSAGE

MATE = Execute this input message on the mate MH's memory. Default is the active MH's memory.

a = Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

b = Message handler unit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

c = Address to be loaded.

d = The symbol name of the global variable to be loaded. The name is entered as a string of up to 15 characters, enclosed in double quotation marks. If the symbol name is greater than 15 characters the symbol index number 'e' must be used to enter this input message using symbolic access. The global variable's symbol index number can be determined by using the DUMP:UT-SYMID input message.

e = Symbol index number of this global variable. The symbol index can be determined for this processor by using the DUMP:UT-SYMID input message.

f = Total length in bytes of all values to be loaded. Default is 1, maximum is 80. Length divided by size must be a whole number from 1-20.

g = Size (number of bytes) of each value to be loaded. Default is 1, maximum is 4.

h = Values to be loaded (maximum of 20 listed values).

4. SYSTEM RESPONSE

Refer to the APP:UT-IM-REASON appendix in the Appendixes section of the Input Messages manual.
5. REFERENCES

Input Message(s):

DUMP:UT-MCTSI-MH
DUMP:UT-SYMIID
EXC:UT-MCTSI-MH

Output Message(s):

LOAD:UT-MCTSI-MH

Input Appendix(es):

APP:RANGES
APP:UT-IM-REASON

Other Manual(s):
235-105-110   System Maintenance Requirements and Tools
LOAD:UT-MCTSI-PI

Software Release: 5E14 and later
Command Group: SFTUTIL
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE
Requests that a value be loaded into the memory of the specified peripheral interface (PI) unit.

WARNING: The user is responsible for any effects on system operation that result from the use of this input message. Know the effects of the message before using it.

2. FORMAT
LOAD:UT:MCTSI=a-b,PI,{ADDR=c|GVAR="d"|SYMIDX=e}[,L=f][,SIZE=g][,VAL=h[-h]...[-h]]

3. EXPLANATION OF MESSAGE
   a = Switching module (SM) number.
   b = Side of the module controller/time-slot interchange (MCTSI). Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
   c = Address to be loaded.
   d = The symbol name of the global variable to be loaded. The name is entered as a string of up to 15 characters, enclosed in double quotation marks. If the symbol name is greater than 15 characters the symbol index number ‘e’ must be used to enter this input message using symbolic access. The global variable’s symbol index number can be determined by using the DUMP:UT-SYMID input message.
   e = Symbol index number of this global variable. The symbol index can be determined for this processor by using the DUMP:UT-SYMID input message.
   f = Total length in bytes of all values to be loaded (default is 1). Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual. Length divided by size should be a whole number from 1-20.
   g = Size (number of bytes) of each value to be loaded. Default is 1, maximum is 4.
   h = Values to be loaded (maximum of 20 listed values).

4. SYSTEM RESPONSE
Refer to the APP:UT-IM-REASON appendix in the Appendixes section of the Input Messages manual.

5. REFERENCES
Input Message(s):
  DUMP:UT-MCTSI-PI
  DUMP:UT-SYMID
  EXC:UT-MCTSI-PI

Output Message(s):
  LOAD:UT-MCTSI-PI

Input Appendix(es):
  APP:RANGES
  APP:UT-IM-REASON

Other Manual(s):
  235-105-110  System Maintenance Requirements and Tools
LOAD:UT-MMP-A

**Software Release:** 5E14 only  
**Command Group:** SFTUTIL  
**Application:** 5  
**Type:** Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. **PURPOSE**

Requests that a value be loaded into the memory of the specified module message processor (MMP).

**WARNING:** The user is responsible for any effects on system operation that result from the use of this input message. Know the effects of the message before using it.

2. **FORMAT**

```
LOAD:UT:MMP=a-b{ADDR=c|I0=d|GVAR="e"|SYMIDX=f}[,L=g][,SIZE=h][,VAL=i[-i...-i]]
```

3. **EXPLANATION OF MESSAGE**

   a = Message switch side. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

   b = MMP number.

   c = Starting address to be loaded.

   d = The number of the input/output (I/O) port to be loaded.

   e = The symbol name of the global variable to be loaded. The name is entered as a string of up to 15 characters, enclosed in double quotation marks. If the symbol name is greater than 15 characters the symbol index number `f' must be used to enter this input message using symbolic access. The global variable's symbol index number can be determined by using the DUMP:UT-SYMID input message.

   f = Symbol index number of this global variable. The symbol index can be determined for this processor by using the DUMP:UT-SYMID input message.

   g = Length in bytes of all values to be loaded. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual. Length divided by size should be a whole number from 1-20.

   h = Size (number of bytes) of each value to be loaded. Maximum is 4.

   i = Values to be loaded (maximum of 20 listed values).

4. **SYSTEM RESPONSE**

Refer to the APP:UT-IM-REASON appendix in the Appendixes section of the Input Messages manual.

5. **REFERENCES**
Input Message(s):

DUMP: UT-SYMID

Output Message(s):

LOAD: UT-MMP

Input Appendix(es):

APP: RANGES
APP: UT-IM-REASON

Other Manual(s):
235-105-110 System Maintenance Requirements and Tools
LOAD:UT-MMP-B

Software Release: 5E15 and later
Command Group: SFTUTIL
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Requests that a value be loaded into the memory of the specified module message processor (MMP).

WARNING: The user is responsible for any effects on system operation that result from the use of this input message. Know the effects of the message before using it.

NOTE: This input message is valid on processors of the communications module model 1 and 2. It will be accepted but denied on the communications module model 3. Use the LOAD:UT:MSGS AP input message for equivalent functionality on processors of the communications module model 3.

2. FORMAT

LOAD:UT:MMP=a-b,{ADDR=c|I0=d|GVAR="e"|SYMIDX=f}[,L=g][,SIZE=h][,VAL=i[-i...-i]];

3. EXPLANATION OF MESSAGE

a = Message switch side. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

b = MMP number.

c = Starting address to be loaded.

d = The number of the input/output (I/O) port to be loaded.

e = The symbol name of the global variable to be loaded. The name is entered as a string of up to 15 characters, enclosed in double quotation marks. If the symbol name is greater than 15 characters the symbol index number ‘f’ must be used to enter this input message using symbolic access. The global variable’s symbol index number can be determined by using the DUMP:UT-SYMID input message.

f = Symbol index number of this global variable. The symbol index can be determined for this processor by using the DUMP:UT-SYMID input message.

g = Length in bytes of all values to be loaded. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual. Length divided by size should be a whole number from 1-20.

h = Size (number of bytes) of each value to be loaded. Maximum is 4.

i = Values to be loaded (maximum of 20 listed values).

4. SYSTEM RESPONSE
Refer to the APP:UT-IM-REASON appendix in the Appendixes section of the Input Messages manual.

5. REFERENCES

Input Message(s):

DUMP:UT-SYMID

Output Message(s):

LOAD:UT-MMP

Input Appendix(es):

APP:RANGES
APP:UT-IM-REASON

Other Manual(s):

235-105-110  System Maintenance Requirements and Tools
LOAD:UT-MSGS

Software Release: 5E15 and later
Command Group: SFTUTIL
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Requests that a value(s) be loaded into the memory of the specified message switch (MSGS).

NOTE: This command is valid only on MSGS processors of communication Model 3.

WARNING: The user takes responsibility for any effects on system operation that result from the use of this input message. Know the effects of the message before using it.

2. FORMAT

LOAD:UT-MSGS=a,{AP|IP},{ADDR=b|GVAR="c"|SYMIDX=d}[,L=e][,SIZE=f][,VAL=g[-g...]];

3. EXPLANATION OF MESSAGE

AP = Load the values in the MSGS application processor's memory.
IP = Load the values in the MSGS interface processor's memory.
a = Message switch side. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
b = Starting address to be loaded in memory.
c = The symbol name of the global variable to be loaded. The name is entered as a string of up to 15 characters, enclosed in double quotation marks. If the symbol name is greater than 15 characters the symbol index number 'd' must be used to enter this command using symbolic access. The global variable's symbol index number can be determined by using the DUMP:UT-SYMID input command.
d = Symbol index number of this global variable. The symbol index can be determined for this processor by using the DUMP:UT-SYMID input command.
e = Length in bytes of all values to be loaded (1 - 80, default is 1). Length divided by size must be a whole number from 1 - 20.
f = Size, in bytes (1-4), of each value to be loaded. Default is 1.
g = Value(s) to be loaded (maximum of 20 listed values). Default is 0.

4. SYSTEM RESPONSE

Refer to the APP:UT-IM-REASON appendix in the Appendixes section of the Input Messages manual.
5. REFERENCES

Input Message(s):

DUMP:UT-SYMID

Output Message(s):

LOAD:UT-MSGS

Input Appendix(es):

APP: RANGES
APP: UT-IM-REASON

Output Appendix(es):

APP: UT-OM-REASON

Other Manual(s):

System Maintenance Requirements and Tools
LOAD:UT-OFI

**Software Release:** 5E61 and later  
**Command Group:** SFTUTIL  
**Application:** 5  
**Type:** Input

**WARNING:** INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

### 1. PURPOSE

Requests that a value(s) be loaded into the memory of the specified optical facility interface (OFI).

This message may be used together with any of the other OFI generic utility input messages. Refer to the input messages listed in the REFERENCES section.

**WARNING:** The user takes responsibility for any effects on system operation that result from the use of this input message. Know the effects of the message before using it.

### 2. FORMAT

LOAD:UT-OFI=a-b-c-d, {ADDR=e,GVAR="f", SYMIDX=g}, [L=h]. . .  
. . . [, SIZE=i] [, VAL=j[-j...]{!|;}

### 3. EXPLANATION OF MESSAGE

**a**  
= Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

**b**  
= Optical interface unit (OIU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

**c**  
= Protection group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

**d**  
= Side number.

**e**  
= Address to be loaded.

**f**  
= The symbol name of the global variable to be loaded. The name is entered as a string of up to 15 characters, enclosed in double quotation marks. If the symbol name is greater than 15 characters the symbol index number ‘g’ must be used to enter this input message using symbolic access. The global variable’s symbol index number can be determined by using the DUMP:UT-SYMID input message.

**g**  
= Symbol index number of this global variable. The symbol index can be determined for this processor by using the DUMP:UT-SYMID input message.

**h**  
= Total length (L) in bytes of all values to be loaded. Default is 1, maximum is 8. Length divided by size must be a whole number.

**i**  
= Size (number of bytes) of each value to be loaded. Default is 1, maximum is 4.

**j**  
= Values to be loaded (maximum of 8 listed values).
4. SYSTEM RESPONSE

Refer to the APP:UT-IM-REASON appendix in the Appendixes section of the Input Messages manual.

5. REFERENCES

Input Message(s):

DUMP:UT-OFI
DUMP:UT-SYMID
EXC:UT-OFI

Output Message(s):

LOAD:UT-OFI

Input Appendix(es):

APP:RANGES
APP:UT-IM-REASON

Other Manual(s):
235-105-110 System Maintenance Requirements and Tools
LOAD:UT-ONTC

Software Release: 5E15 and later
Command Group: SFTUTIL
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Requests that a value(s) be loaded into the memory of the specified office network and timing complex processor (ONTC).

NOTE: This command is valid only on ONTC processors of communication Model 3.

WARNING: The user takes responsibility for any effects on system operation that result from the use of this input message. Know the effects of the message before using it.

2. FORMAT

LOAD:UT:ONTC=a, {AP | IP}, {ADDR=b | GVAR="c" | SYMIDX=d} [, L=e] [, SIZE=f] [, VAL=g [-g...]];

3. EXPLANATION OF MESSAGE

| AP   | = Load the values in the ONTC application processor's memory. |
| IP   | = Load the values in the ONTC interface processor's memory.   |
| a    | = ONTC side. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual. |
| b    | = Starting address to be loaded in memory.                  |
| c    | = The symbol name of the global variable to be loaded. The name is entered as a string of up to 15 characters, enclosed in double quotation marks. If the symbol name is greater than 15 characters the symbol index number 'd' must be used to enter this command using symbolic access. The global variable's symbol index number can be determined by using the DUMP:UT-SYMID input command. |
| d    | = Symbol index number of this global variable. The symbol index can be determined for this processor by using the DUMP:UT-SYMID input command. |
| e    | = Length in bytes of all values to be loaded (1 - 80, default is 1). Length divided by size must be a whole number from 1 - 20. |
| f    | = Size, in bytes (1-4), of each value to be loaded. Default is 1. |
| g    | = Value(s) to be loaded (maximum of 20 listed values). Default is 0. |

4. SYSTEM RESPONSE
Refer to the APP:UT-IM-REASON appendix in the Appendixes section of the Input Messages manual.

5. REFERENCES

Input Message(s):

DUMP:UT-SYMID

Output Message(s):

LOAD:UT-ONTC

Input Appendix(es):

APP:RANGES
APP:UT-IM-REASON

Output Appendix(es):

APP:UT-OM-REASON

Other Manual(s):

System Maintenance Requirements and Tools
LOAD:UT-PPC-A

Software Release: 5E14 only
Command Group: SFTUTIL
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Requests that a value be loaded into the memory of the specified pump peripheral controller (PPC).

WARNING: The user is responsible for any effects on system operation that result from the use of this input message. Know the effects of the message before using it.

2. FORMAT

LOAD:UT:PPC=a,{ADDR=b|I0=c|GVAR="d"|SYMIDX=e}[,L=f][,SIZE=g][,VAL=h[-h...-h]];

3. EXPLANATION OF MESSAGE

a = PPC number.
b = Starting address to be loaded.
c = The number of the input/output (I/O) port to be loaded.
d = The symbol name of the global variable to be loaded. The name is entered as a string of up to 15 characters, enclosed in double quotation marks. If the symbol name is greater than 15 characters the symbol index number \( e \) must be used to enter this input message using symbolic access. The global variable's symbol index number can be determined by using the DUMP:UT-SYMID input message.
e = Symbol index number of this global variable. The symbol index can be determined for this processor by using the DUMP:UT-SYMID input message.
f = Total length in bytes of all values to be loaded. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual. Length divided by size should be a whole number from 1-20.
g = Size (number of bytes) of each value to be loaded. Maximum is 4.
h = Values to be loaded (maximum of 20 listed values).

4. SYSTEM RESPONSE

Refer to the APP:UT-IM-REASON appendix in the Appendixes section of the Input Messages manual.

5. REFERENCES

Input Message(s):
DUMP:UT-SYMID

Output Message(s):
LOAD:UT-PPC

Input Appendix(es):
APP:RANGES
APP:UT-IM-REASON

Other Manual(s):
235-105-110 System Maintenance Requirements and Tools
LOAD:UT-PPC-B

Software Release: 5E15 and later
Command Group: SFTUTIL
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Requests that a value be loaded into the memory of the specified pump peripheral controller (PPC).

WARNING: The user is responsible for any effects on system operation that result from the use of this input message. Know the effects of the message before using it.

NOTE: This input message is valid on processors of the communications module model 1 and 2. It will be accepted but denied on the communications module model 3. Use the LOAD:UT:MSGAS AP input message for equivalent functionality on processors of the communications module model 3.

2. FORMAT

LOAD:UT:PPC=a,{ADDR=b|I0=c|GVAR="d"|SYMIDX=e}[,L=f][,SIZE=g][,VAL=h[-h...-h]];

3. EXPLANATION OF MESSAGE

a = PPC number.
b = Starting address to be loaded.
c = The number of the input/output (I/O) port to be loaded.
d = The symbol name of the global variable to be loaded. The name is entered as a string of up to 15 characters, enclosed in double quotation marks. If the symbol name is greater than 15 characters the symbol index number 'e' must be used to enter this input message using symbolic access. The global variable's symbol index number can be determined by using the DUMP:UT-SYMID input message.
e = Symbol index number of this global variable. The symbol index can be determined for this processor by using the DUMP:UT-SYMID input message.
f = Total length in bytes of all values to be loaded. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual. Length divided by size should be a whole number from 1-20.
g = Size (number of bytes) of each value to be loaded. Maximum is 4.
h = Values to be loaded (maximum of 20 listed values).

4. SYSTEM RESPONSE

Refer to the APP:UT-IM-REASON appendix in the Appendixes section of the Input Messages manual.
5. REFERENCES

Input Message(s):

DUMP: UT-SYMID

Output Message(s):

LOAD: UT-PPC

Input Appendix(es):

APP: RANGES
APP: UT-IM-REASON

Other Manual(s):

235-105-110  System Maintenance Requirements and Tools
LOAD:UT-PSUPH-A

Software Release: 5E14 - 5E15
Command Group: SFTUTIL
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Requests that a value(s) be loaded into the memory of the specified packet switch unit protocol handler (PSUPH).

Note: This input message is only supported on PSUPHs of the PH3/PH4 and later hardware types (that is, not PH2 hardware types).

This message may be used together with any of the other PSUPH generic utility input messages (refer to the input messages listed in the REFERENCES section).

If this message is used together with other generic utility messages, the END:UT-PSUPH input message may be used to signal the end of the series of messages.

WARNING: The user takes responsibility for any effects on system operation that result from the use of this input message. Know the effects of the message before using it.

2. FORMAT

LOAD:UT:PSUPH=a-b-c-d,{ADDR=e|GVAR="f"|SYMIDX=g}[,,L=h]
[,SIZE=i][,VAL=\{-j\}][!|;]

3. EXPLANATION OF MESSAGE

a = Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

b = Unit number (always 0).

c = Shelf number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

d = Slot number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

e = Address (ADDR) to be loaded.

f = The symbol name of the global variable to be loaded. The name is entered as a string of up to 15 characters, enclosed in double quotation marks. If the symbol name is greater than 15 characters the symbol index number 'g' must be used to enter this input message using symbolic access. The global variable's symbol index number can be determined by using the DUMP:UT-SYMID input message.

g = Symbol index number of this global variable. The symbol index can be determined for this
processor by using the DUMP:UT-SYMID input message.

\[ h = \text{Total length (L) in bytes of all values to be loaded. Default is 1, maximum is 80. Length divided by size must be a whole number from 1-20.} \]

\[ i = \text{Size (number of bytes) of each value to be loaded. Default is 1, maximum is 4.} \]

\[ j = \text{Values to be loaded (maximum of 20 listed values).} \]

4. SYSTEM RESPONSE

Refer to the APP:UT-IM-REASON appendix in the Appendixes section of the Input Messages manual.

5. REFERENCES

Input Message(s):

- ALW:UT-PSUPH
- CLR:UT-PSUPH
- COPY:UT-PSUPH
- DUMP:UT-PSUPH
- DUMP:UT-SYMID
- ELSE:UT-PSUPH
- END:UT-PSUPH
- EXC:UT-PSUPH
- IF:UT-PSUPH
- IF:UT-PSUPH-END
- INH:UT-PSUPH
- OP:UT-PSUPH
- WHEN:UT-PSUPH

Output Message(s):

- LOAD:UT-PSUPH

Input Appendix(es):

- APP:UT-IM-REASON

Other Manual(s):

235-105-110   System Maintenance Requirements and Tools
LOAD:UT-PSUPH-B
Software Release: 5E16(1) and later
Command Group: SFTUTIL
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Requests that a value(s) be loaded into the memory of the specified packet switch unit protocol handler (PSUPH).

This message may be used together with any of the other PSUPH generic utility input messages (refer to the input messages listed in the REFERENCES section). If this message is used together with other generic utility messages, the END:UT-PSUPH input message may be used to signal the end of the series of messages.

WARNING: The user takes responsibility for any effects on system operation that result from the use of this input message. Know the effects of the message before using it.

2. FORMAT

LOAD:UT-PSUPH=a-b-c-d,\{ADDR=e\ | GVAR="f" | SYMIDX=g\}[,L=h]
[,SIZE=i][,VAL=[-j...]]{!|;}

3. EXPLANATION OF MESSAGE

a = Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

b = Packet Switching Unit (PSU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

c = Shelf number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

d = Slot number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

e = Address (ADDR) to be loaded.

f = The symbol name of the global variable to be loaded. The name is entered as a string of up to 15 characters, enclosed in double quotation marks. If the symbol name is greater than 15 characters the symbol index number ‘g’ must be used to enter this input message using symbolic access. The global variable’s symbol index number can be determined by using the DUMP:UT-SYMID input message.

g = Symbol index number of this global variable. The symbol index can be determined for this processor by using the DUMP:UT-SYMID input message.

h = Total length (L) in bytes of all values to be loaded. Default is 1, maximum is 80. Length divided by size must be a whole number from 1-20.

i = Size (number of bytes) of each value to be loaded. Default is 1, maximum is 4.
j = Values to be loaded (maximum of 20 listed values).

4. SYSTEM RESPONSE

Refer to the APP:UT-IM-REASON appendix in the Appendixes section of the Input Messages manual.

5. REFERENCES

Input Message(s):

ALW:UT-PSUPH
CLR:UT-PSUPH
COPY:UT-PSUPH
DUMP:UT-PSUPH
DUMP:UT-SYMID
ELSE:UT-PSUPH
END:UT-PSUPH
EXC:UT-PSUPH
IF:UT-PSUPH
IF:UT-PSUPH-END
INH:UT-PSUPH
OP:UT-PSUPH
WHEN:UT-PSUPH

Output Message(s):

LOAD:UT-PSUPH

Input Appendix(es):

APP:RANGES
APP:UT-IM-REASON

Other Manual(s):

235-105-110 System Maintenance Requirements and Tools
LOAD:UT-QGP-A

Software Release: 5E14 only
Command Group: SFTUTIL
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Requests that a value(s) be loaded into the memory of the specified quad-link packet switch (QLPS) gateway processor (QGP).

WARNING: The user takes responsibility for any effects on system operation that result from the use of this input message. Know the effects of the message before using it.

2. FORMAT

LOAD:UT:QGP=a-b,\{AP\,MSGH\},\{ADDR=c\,GVAR="d"\,SYMIDX=e\}\[,L=f\]
[\,SIZE=g\]\[,VAL=h\[-h\ldots]\];

3. EXPLANATION OF MESSAGE

Note: Refer to the Acronym section of the Input Messages manual for the full expansion of acronyms shown in the format.

\(a\) = Message switch side. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

\(b\) = QGP number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

\(c\) = Starting address to be loaded in memory.

\(d\) = The symbol name of the global variable to be loaded. The name is entered as a string of up to 15 characters, enclosed in double quotation marks. If the symbol name is greater than 15 characters the symbol index number \(e\) must be used to enter this input message using symbolic access. The global variable’s symbol index number can be determined by using the DUMP:UT-SYMID input message.

\(e\) = Symbol index number of this global variable. The symbol index can be determined for this processor by using the DUMP:UT-SYMID input message.

\(f\) = Length in bytes of all values to be loaded (1 - 80, default is 1). Length divided by size must be a whole number from 1 - 20.

\(g\) = Size, in bytes (1-4), of each value to be loaded. Default is 1.

\(h\) = Value(s) to be loaded (maximum of 20 listed values). Default is 0.

4. SYSTEM RESPONSE
Refer to the APP:UT-IM-REASON appendix in the Appendixes section of the Input Messages manual.

5. REFERENCES

Input Message(s):

DUMP:UT-SYMID

Output Message(s):

LOAD:UT-QGP

Input Appendix(es):

APP:RANGES
APP:UT-IM-REASON

Output Appendix(es):

APP:UT-OM-REASON

Other Manual(s):
235-105-110 System Maintenance Requirements and Tools
LOAD:UT-QGP-B

Software Release: 5E15 and later
Command Group: SFTUTIL
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Requests that a value(s) be loaded into the memory of the specified quad-link packet switch (QLPS) gateway processor (QGP).

WARNING: The user takes responsibility for any effects on system operation that result from the use of this input message. Know the effects of the message before using it.

NOTE: This input message is valid on processors of the communications module model 1 and 2. It will be accepted but denied on the communications module model 3. Use the LOAD:UT:MSGS AP input message for equivalent functionality on processors of the communications module model 3.

2. FORMAT

LOAD:UT:QGP=a-b,{AP|MSGH},{ADDR=c|GVAR="d"|SYMIDX=e}[,L=f][,SIZE=g][,VAL=h[-h...]];

3. EXPLANATION OF MESSAGE

Note: Refer to the Acronym section of the Input Messages manual for the full expansion of acronyms shown in the format.

a = Message switch side. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

b = QGP number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

c = Starting address to be loaded in memory.

d = The symbol name of the global variable to be loaded. The name is entered as a string of up to 15 characters, enclosed in double quotation marks. If the symbol name is greater than 15 characters the symbol index number ‘e’ must be used to enter this input message using symbolic access. The global variable’s symbol index number can be determined by using the DUMP:UT-SYMID input message.

e = Symbol index number of this global variable. The symbol index can be determined for this processor by using the DUMP:UT-SYMID input message.

f = Length in bytes of all values to be loaded (1 - 80, default is 1). Length divided by size must be a whole number from 1 - 20.

g = Size, in bytes (1-4), of each value to be loaded. Default is 1.

h = Value(s) to be loaded (maximum of 20 listed values). Default is 0.
4. SYSTEM RESPONSE

Refer to the APP:UT-IM-REASON appendix in the Appendixes section of the Input Messages manual.

5. REFERENCES

Input Message(s):

DUMP:UT-SYMID

Output Message(s):

LOAD:UT-QGP

Input Appendix(es):

APP:RANGES
APP:UT-IM-REASON

Output Appendix(es):

APP:UT-OM-REASON

Other Manual(s):

235-105-110  System Maintenance Requirements and Tools
LOAD:UT-SM

Software Release: 5E14 and later
Command Group: SFTUTIL
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Requests that a value(s) be loaded into the memory of the specified switching module (SM).

This message may be used together with any of the other SM generic utility input messages (refer to the input messages listed in the REFERENCES section).

If this message is used together with other utility messages, the END:UT-SM input message may be used to signal the end of the series of messages.

WARNING: The user is responsible for any effects on system operation that result from the use of this input message. Know the effects of the message before using it.

During patch space recovery operation, UT will modify its normal behavior to force non-mate operations to write only the local memory even if both MCTSI's are in service. Therefore, in order to have operations happen on both sides, the user needs to run the command twice, first for the active side, then for the mate side.

2. FORMAT

LOAD:UT:SM=a[,MATE],{ADDR=b|GVAR="c"|SYMIDX=d}[,L=e][,SIZE=f]. . .
. . .[,VAL=g[-g]...[-g]}{!|;}

3. EXPLANATION OF MESSAGE

MATE = Execute this input message on the mate SM's memory. Default is the active SM's memory and mate memory unless it is during patch space recovery operation.

a = SM number.

b = Address to be loaded.

c = The symbol name of the global variable to be loaded. The name is entered as a string of up to 15 characters, enclosed in double quotation marks. If the symbol name is greater than 15 characters the symbol index number 'd' must be used to enter this input message using symbolic access. The global variable's symbol index number can be determined by using the DUMP:UT-SYMID input message.

d = Symbol index number of this global variable. The symbol index can be determined for this processor by using the DUMP:UT-SYMID input message.

e = Total length in bytes of all values to be loaded. Default is 1, maximum is 80. Length divided by size should be a whole number from 1-20.

f = Size (number of bytes) of each value to be loaded. Default is 1, maximum is 4.
g = Values to be loaded (maximum of 20 listed values).

4. SYSTEM RESPONSE

Refer to the APP:UT-IM-REASON appendix in the Appendixes section of the Input Messages manual.

5. REFERENCES

Input Message(s):

ALW:UT-SM
CLR:UT-SM
COPY:UT-SM
DUMP:UT-SM
DUMP:UT-SYMID
ELSE:UT-SM
END:UT-SM
EXC:UT-SM
IF:UT-SM
IF:UT-SM-ENDIF
INH:UT-SM
OP:UT-SM
WHEN:UT-SM

Output Message(s):

LOAD:UT-SM

Input Appendix(es):

APP:UT-IM-REASON

Other Manual(s):
235-105-110  System Maintenance Requirements and Tools
LOAD:UT-TMS-A

Software Release: 5E14 only
Command Group: SFTUTIL
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Requests that a value(s) be loaded into the memory of the specified time multiplex switch (TMS).

WARNING: The user is responsible for any effects on system operation that result from the use of this input message. Know the effects of the message before using it.

2. FORMAT

LOAD:UT:TMS=a[,L=b][,CMDS=c][,VAL=d];

3. EXPLANATION OF MESSAGE

a = TMS number.
b = Total length in bytes of all values to be loaded. Default is 5, maximum is 80.
c = Number of requests in the message. Default is 1, maximum is 16.
d = Values to be loaded (maximum of 20 listed values). Default is 0. Multiple values (VAL=h'1234-h'5678...) can be entered.

4. SYSTEM RESPONSE

Refer to the APP:UT-IM-REASON appendix in the Appendixes section of the Input Messages manual. Note that the output is in a DUMP format, even though the input request was a LOAD. This is due to the nature of the interface to the TMS.

5. REFERENCES

Input Message(s):

LOAD:UT-TMS

Output Message(s):

DUMP:UT-TMS

Input Appendix(es):

APP:UT-IM-REASON
Other Manual(s):
235-105-110  System Maintenance Requirements and Tools
LOAD:UT-TMS-B

Software Release: 5E15 and later
Command Group: SFTUTIL
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Requests that a value(s) be loaded into the memory of the specified time multiplex switch (TMS).

WARNING: The user is responsible for any effects on system operation that result from the use of this input message. Know the effects of the message before using it.

NOTE: This input message is valid on processors of the communications module model 1 and 2. It will be accepted but denied on the communications module model 3. Use the LOAD:UT:MSGS AP input message for equivalent functionality on processors of the communications module model 3.

2. FORMAT

LOAD:UT:TMS=a[,L=b][,CMDS=c][,VAL=d];

3. EXPLANATION OF MESSAGE

a = TMS number.
b = Total length in bytes of all values to be loaded. Default is 5, maximum is 80.
c = Number of requests in the message. Default is 1, maximum is 16.
d = Values to be loaded (maximum of 20 listed values). Default is 0. Multiple values (VAL=h'1234-h'5678...) can be entered.

4. SYSTEM RESPONSE

Refer to the APP:UT-IM-REASON appendix in the Appendixes section of the Input Messages manual. Note that the output is in a DUMP format, even though the input request was a LOAD. This is due to the nature of the interface to the TMS.

5. REFERENCES

Input Message(s):
  LOAD:UT:TMS

Output Message(s):
  DUMP:UT:TMS

Input Appendix(es):
APP: UT-IM-REASON

Other Manual(s):

235-105-110  System Maintenance Requirements and Tools
LOAD:UT-TMUX

Software Release: 5E14 and later
Command Group: SFTUTIL
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Requests that a value be loaded into the memory of the specified digital networking unit - SONET (DNU-S) transmission multiplexer (TMUX).

WARNING: The user is responsible for any effects on system operation that result from the use of this input message. Know the effects of the message before using it.

2. FORMAT

LOAD:UT-TMUX=a-b-c-d,[ADDR=e|GVAR="f"|SYMIDX=g][,L=h][,SIZE=i][,VAL=j[-j]...[-j]]{!|;}

3. EXPLANATION OF MESSAGE

a = Switching module (SM) number.
b = DNU-S number.
c = Data group number.
d = TMUX number.
e = Physical Address of the location to start the LOAD.
f = The name is entered as a string of up to 15 characters, enclosed in double quotation marks. If the symbol name is greater than 15 characters the symbol index number ‘g’ must be used to enter this input message using symbolic access. The global variable’s symbol index number can be determined by using the DUMP:UT-SYMID input message.

g = Symbol index number of this global variable. The symbol index can be determined for this processor by using the DUMP:UT-SYMID input message.
h = Total length in bytes of all values to be loaded (1 - 8, default is 1). Length divided by size (variable ‘i’) must be a whole number.
i = Size (number of bytes) of each value to be loaded. Default is 1, maximum is 4.
j = Values to be loaded (maximum of 8 listed values).

4. SYSTEM RESPONSE

Refer to the APP:UT-IM-REASON appendix in the Appendixes section of the Input Messages manual.
5. REFERENCES

Input Message(s):

DUMP:UT-SYMD
DUMP:UT-TMUX
EXC:UT-TMUX

Output Message(s):

LOAD:UT-TMUX

Input Appendix(es):

APP:UT-IM-REASON

Other Manual(s):
235-105-110  System Maintenance Requirements and Tools
LOAD:UVAR

Software Release: 5E14 and later
Command Group: SFTUTIL
Application: 5,3B
Type: Input

1. PURPOSE

Loads administrative module (AM) generic access package (GRASP) utility variable with specified data as an immediate operation or as an action associated with a breakpoint.

2. FORMAT

LOAD:UVAR=a[,L=b][:WORD],D=c;

3. EXPLANATION OF MESSAGE

WORD = Indication that addresses and lengths are to be interpreted in terms of words. If this option is omitted, addresses and lengths are assumed to be byte values.

a = Specifies a GRASP utility variable in decimal. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual. Utility variable values are reset to 0 at the end of every debugging session.

b = The length of the load, assumed to be bytes unless the WORD option is used. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual. The default for an omitted or zero length is 4. The specified length must agree with the data as explained below.

c = The data to be loaded. It is taken to represent the number of bytes of data (up to 4) needed to make the data list correspond to the length 'b'.

4. SYSTEM RESPONSE

IP = In progress. The message has been added to the WHEN action list.

PF = Printout follows. Followed by a LOAD:UVAR output message.

RL = Retry later. The system is in an overload condition or completing a previous OP:UMEM message.

?I = Syntax error. Valid value(s):
- INCONSISTENT DATA (L + D) = Length and amount of data specified do not agree.
- RANGE ERROR (L) = Length too long.
- RANGE ERROR (UVAR) = Invalid utility variable was specified.

5. REFERENCES

Input Message(s):

COPY:ADDR
COPY:PID
COPY:REG
COPY: UID
COPY: UVAR
OP: UMEM
WHEN: PID
WHEN: UID

Output Message(s):

LOAD: ADDR
LOAD: PMEM
LOAD: REG
LOAD: UVAR

Input Appendix(es):

APP: RANGES
38. MON
MON:SLK

Software Release: 5E14 and later
Command Group: CCS
Application: 5, CNI
Type: Input

1. PURPOSE

Requests that the link monitor be turned on or off. This message may also be used to determine the status of the monitor for the specified link(s). When the monitor is on, events associated with signaling links will trigger reports that are not normally output. Turning the monitor off inhibits new events from generating output. Event masks are available for each link. The event mask is used to describe the link related stimuli for which output is desired. There is also a system wide mask. Events can be monitored either on a single link or on all links.

Format 1 starts the link monitor. Either a single link (per link based messages) or a single node (per node based messages) or "ALL" links or nodes may be specified.

Format 2 stops the link monitor for the specified link or node or "ALL" links or nodes.

Format 3 is a request for the status of either a specific link or node or the system wide, "ALL", mask.

2. FORMAT

[1] MON:SLK=[a-b]:ON[c];

3. EXPLANATION OF MESSAGE

a = Group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

b = Member number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

c = Events mask. A default value of X'cde7f, everything except TFXs, will be used if no value is specified with the request. Event masks for more specific needs may be formed by "OR-ing" values. Valid value(s):

X'00001 = Ring node events.
X'00002 = CCS6 link failure events.
X'00004 = CCS7 link failure events.
X'00008 = CCS6 link restoration events.
X'00010 = CCS7 link restoration events.
X'00020 = CCS6 network messages (except TFx).
X'00040 = CCS7 network messages (except TFx).
X'00080 = CCS6 TFx events.
X'0100 = CCS7 TFx events.
X'0200 = Self loop link detection.
X'0400 = Manual out-of-service events.
X'0800 = Test and audit events.
X'08000 = DLN user response events.
X'10000  = Internal link state changes.
X'20000  = LSSU link OOS reports.
X'40000  = Changeover events.
X'80000  = Change back events.

As a result of the message the link monitor function as requested is set. OFF turns the monitor off, STATUS will report whether the monitor is currently ON or OFF, and ON will turn on the monitor. When monitors are turned on, administrative module (AM) stimuli for links or nodes, and/or internal state changes will be reported. This may cause large amounts of output, therefore some caution should be exercised when requesting this feature.

Refer to the "Link Monitor Masks With Their Events" exhibit in the APP:CNI appendix in the Appendixes section of the Output Messages manual for which stimuli are associated with the above mask values.

4. SYSTEM RESPONSE

PF  = Printout follows.

5. REFERENCES

Output Message(s):

MON:SLK
REPT:MON-SLK

Input Appendix(es):

APP:RANGES

Output Appendix(es):

APP:CNI

Other Manual(s):
235-190-120 Common Channel Signaling Service Features

MCC Display Page(s):

118  (CNI RING STATUS PAGE)
1521 (SIGNALING LINK SUMMARY PAGE)
1522 (SIGNALING LINK PAGE)
MON:TRUNK
Software Release: 5E14 and later
Command Group: TRKLN
Application: 5
Type: Input

1. PURPOSE
Requests the specified trunk group marked with stop-go signaling be monitored. The members of the trunk group become candidates for being held off-hook and out of service when a stop-go signaling failure occurs. The connection between the switch and the far-end office is held off-hook for the user to determine the nature of the failure in the far-end office.

2. FORMAT
MON:TRUNK:TG=a;

3. EXPLANATION OF MESSAGE

a = Trunk group number.

4. SYSTEM RESPONSE
PF = Printout follows. Request accepted. Followed by the MON:TRUNK output message.

5. REFERENCES
Input Message(s):
CLR:TRUNK
OP:TRUNK

Output Message(s):
MON:TRUNK
39. OP:A
OP:ABD

Software Release: 5E14 and later
Command Group: N/A
Application: 5,3B
Type: Input

1. PURPOSE

Provides a list of all available alternate boot disk units on the switch. Information within the list will identify whether or not the unit may be used as a boot disk and if so, the date when the unit was last updated. An optional format allows the craft to obtain this information for a specific unit.

Note: Only data from the primary partitions is used to determine if a unit is a valid boot disk. No checking is done on the backup partitions.

2. FORMAT

OP:ABD[a]!

3. EXPLANATION OF MESSAGE

a = Unit number Refer to the APP:MEM-NUM-UNIT appendix in the Appendixes section of the Input Messages manual for additional information.

4. SYSTEM RESPONSE

PF = Printout follows. Followed by the OP:ABD output message.

5. REFERENCES

Output Message(s):

OP:ABD

Input Appendix(es):

APP:MEM-NUM-UNIT
1. PURPOSE

Lists a history over the immediate previous two hours of attempts per circuit per hour (ACH) and connections per circuit per hour (CCH) taken every 5 minutes for a given trunk group displayed in the TRUNK block of the defense switched network (DSN) network management (NM) exception page. This teletypewriter (TTY) message is valid only for DSN switches.

2. FORMAT

OP:ACCH,TG=a;

3. EXPLANATION OF MESSAGE

a = Trunk group name.

4. SYSTEM RESPONSE

NG = No good. May also include:
    - TG UNASSIGNED = The trunk group is not on the schedule or any display box.

  PF = Printout follows. Followed by the OP:ACCH output message.

  RL = Retry later. May also include:
    - NO DATA = No ACH/CCH data is yet collected for this trunk group.

5. REFERENCES

Input Message(s):

ASGN:DPSCH
CLR:NMSCH
CLR:TRKDP

Output Message(s):

OP:ACCH
OP:ACG

**Software Release:** 5E14 and later  
**Command Group:** NMOC  
**Application:** 5  
**Type:** Input

*WARNING:* INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. **PURPOSE**

Requests a list of up to 64 automatic call gapping (ACG) controls for the specified application, starting at the given control identifier. If the control identifier is not given, the default control identifier zero will be used as the starting point of the output controls.

*WARNING:* Requesting this message may cause a large amount of data to be printed on the receive-only printer (ROP) and it may degrade other call processing events. This message should not be used during high traffic time.

2. **FORMAT**

```
OP:ACG,a[,CID=b][,GSM=c];
```

3. **EXPLANATION OF MESSAGE**

- **a** = Application type. Valid value(s):
  - **ASP** = Advanced services platform (ASP) release 0.1 application.
  - **NS800** = Number services (NS) 800 application.

- **b** = Control identifier. Range is 0 to 511, depending on available feature set. The default is zero.

- **c** = Processor from which to access the ACG list. Valid value(s) 1 to 192 for a GSM, or 0 to signify the AM/DLN. The default is the AM/DLN, or the GSM of a VCDX office.

4. **SYSTEM RESPONSE**

- **NG** = No Good. May also include:
  - **INVALID GSM** = The input message requested an SM that is not a GSM and has no ACG list.
  - **NO GSM** = For a VCDX office, a GSM could not be found.

- **PF** = Printout follows. Followed by an OP:ACG output message.

- **RL** = Retry later. May also include:
  - **RESOURCE SHORTAGE** = The request could not be accepted because the necessary resources are not available.

5. **REFERENCES**

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Output Message(s):

OP : ACG
OP:ACSR

**Software Release:** 5E14 and later
**Command Group:** RCV
**Application:** 5
**Type:** Input

1. **PURPOSE**

Requests that the status of one or all automatic customer station rearrangement (ACSR) requests in the ACSR queue be printed.

2. **FORMAT**

OP:ACSR, {PDN=a, ALL};

3. **EXPLANATION OF MESSAGE**

- **ALL** = Print the status of all ACSR requests.
- **a** = Primary directory number (PDN). The PDN value may be a 7 or 10 digit directory number (DN). If the NXX exists in more than one area code (such as, NPA), a 10 digit DN must be entered.

4. **SYSTEM RESPONSE**

PF = Printout follows. An OP:ACSR output message will follow.

5. **REFERENCES**

Input Message(s):

DEL:ACSR

Output Message(s):

DEL:ACSR
OP:ACSR
OP:ACT

Software Release: 5E14 and later
Command Group: AM
Application: 5,3B
Type: Input

1. PURPOSE

Provides a list of all currently active administrative module (AM) hardware units. An optional format provides a list of all active units of a particular type.

2. FORMAT

OP:ACT[:DATA,{a=b}[,c=d]}];

3. EXPLANATION OF MESSAGE

a = Unit name. AM unit names are listed in the APP:MEM-NUM-UNIT appendix in the Appendixes section of this manual.

b = Unit number. Refer to the APP:MEM-NUM-UNIT appendix in the Appendixes section of this manual.

c = Subunit name, if a=CU. AM control unit (CU) subunit names are listed in the APP:MEM-NUM-CU appendix in the Appendixes section of this manual.

d = Subunit number. Refer to the APP:MEM-NUM-CU appendix in the Appendixes section of this manual.

4. SYSTEM RESPONSE

PF = Printout follows. Followed by OP:ACT output message.

RL = Retry later.

5. REFERENCES

Input Message(s):

OP:CFGSTAT

Output Message(s):

OP:ACT
OP:CFGSTAT

Input Appendix(es):

APP:MEM-NUM-CU
APP:MEM-NUM-UNIT
OP:AFAC

Software Release: 5E15 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Requests translation information for an AUTOPLEX® mobile phone service (AMPS) facility, from AMPS facility identifier to its external facility circuit identifier and vice-versa.

For AMPS facility identifier to external facility circuit translation, the output will be the external facility circuit identifier.

For external facility circuit to AMPS facility identifier translation, the output will be the AMPS facility identifier.

2. FORMAT

OP:AFAC,a;

3. EXPLANATION OF MESSAGE

Note: Refer to the Acronym section of the Output Messages manual for the full expansion of acronyms shown in the format.

a = Facility type. Valid value(s):
   AFACID=b = AMPS facility identifier.
   DS1=c-m-n-o-p-k-l = OIU facility circuit.
   DS1SFAC=c-g-h-i-j-k-l = DNUS facility circuit.
   FAC=c-d-e-f = DLTU facility circuit.

b = AMPS facility identifier. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

c = SM number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

d = Digital line and trunk unit (DLTU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

e = Digital facilities interface (DFI) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

f = FAC number. The FAC number is the T1 facility number on a DFI (0-1).

g = Digital networking unit - SONET (DNU-S) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

h = Data group (DG) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

i = SONET termination equipment (STE) facility number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

j = Synchronous transport signal (STS) facility number. Refer to the APP:RANGES appendix in the
Appendixes section of the Input Messages manual.

\[ k \] = Virtual tributary group (VTG) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

\[ l \] = Virtual tributary member (VTM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

\[ m \] = OIU number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

\[ n \] = Protection group (PG) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

\[ o \] = OC3 number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

\[ p \] = STS1 number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

\[ \text{NG} \] = No good. The request has been denied. The message form is valid, but the request conflicts with current status.

\[ \text{PF} \] = Printout follows. Followed by the OP:AFAC output message.

\[ \text{RL} \] = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

Output Message(s):

\[ \text{OP:AFAC} \]
1. PURPOSE

Requests the status of automatic line evaluation (ALE) system control parameters and resource usage.

The control parameters are grouped into three classes.

Automatic ALE Session Output Controls The parameters LEVEL1, LEVEL2, PRINT, and PER=REPT allow the controls used for generating output information for the automatically requested ALE sessions. These options determine which counts are to be used for the session and where the output is to be directed. These controls have no bearing on the output of information due to a manually requested ALE session. The default values for these options are restored on an administrative module (AM) full initialization. No other type of initialization will change the requested settings.

Switching Module (SM) Controls The SM parameters control the behavior of the level 1 performance monitoring and protocol error record (PER) generation. Refer to the Protocol Error Record Descriptions manual for additional information about a specific PER. If the level 1 parameter is inhibited, then level 1 performance monitoring is not active for all the U-interface digital subscriber lines (DSLs) on the SM. If allowed, then level 1 performance monitoring status for a U-interface DSL is determined by the level 1 performance monitoring group assigned to the DSL. Status requests that immediately follow the inhibiting (INH:ALE) of integrated services digital network (ISDN) protocol channels may give an erroneous indication that level 1 performance monitoring has been inhibited. The actual counting of level 1 errored seconds, severely errored seconds, and cyclic redundancy check (CRC) block errors (BE), may not be inhibited for a period of up to 5 minutes. Status requests that immediately follow the allowing (ALW:ALE) of ISDN protocol channels may give an erroneous indication that level 1 performance monitoring is operational. The actual counting of level 1 errored seconds, severely errored seconds, and cyclic redundancy check block errors, may not resume for a period of up to 5 minutes. If the PER generation parameter is inhibited, then no PERs will be recorded for any ISDN protocol channels on the SM. If the parameter is allowed, then the PER generation parameter for the individual ISDN protocol channel determines if PERs are recorded for that channel.

Line/Trunk Controls Line/trunk ALE controls consist of a set of level 1 parameters and the PER generation parameter. The level 1 parameters only apply to U-interface DSLs. The PER generation parameter applies to all ISDN protocol channels whether supported on lines or trunks. The level 1 control parameters consist of an overall level 1 inhibit, hourly alert generation, daily alert generation, interval report generation, and daily report generation. If the overall level 1 inhibit is active, then all level 1 performance monitoring activities for the U-interface are disabled. If the hourly alert generation inhibit is active, then the reporting of hourly alerts to the ROP will be suppressed for the interface. If the daily alert generation inhibit is active, then the reporting of daily alerts to the ROP will be suppressed for the interface. If the interval report generation inhibit is active, then the interface will not contribute to the interval report. If the daily report generation inhibit is active, then the interface will not contribute to the daily report. One or more of the level 1 controls may be active. This information is applicable to U-interface DSLs. Status requests that immediately follow the inhibiting (INH:ALE) of ISDN protocol channels may give an erroneous indication that level 1 performance monitoring has been inhibited. The actual counting of level 1 errored seconds, severely errored seconds, and CRC BEs, may not be inhibited for a period of up to 5 minutes. Status requests that immediately follow the allowing (ALW:ALE) of ISDN protocol channels may give an erroneous indication that level 1 performance monitoring is operational. The actual counting of level 1 errored seconds, severely errored seconds, and CRC BEs, may not be inhibited for a period of up to 5 minutes.
seconds, severely errored seconds, and cyclic redundancy check block errors, may not resume for a period of up to 5 minutes. If the PER generation inhibit is active, then no PERs will be recorded for the ISDN protocol channel. In addition to the INH:ALE input message, PER generation may be inhibited as a result of digital loopback testing (TST:DSL), routine exerciser (REX), or mechanized loop testing (MLT). This inhibit condition will exist for the duration of the test being performed for the line/trunk. After completion of the test, the PER inhibit condition will remain for a period of 3 to 6 minutes. After this period has expired, the inhibit condition will be cleared if the status prior to the invocation of the test was "allowed". If the previous status was not "allowed", then the line/trunk will remain inhibited. Use the ALW:ALE input message to clear the inhibit condition prior to the expiration of the 3 to 6 minute period.

Format 1 is used to request the status of the automatic ALE session output controls.

Format 2 is used to request the status of switching module (SM) parameters for a range of SMs.

Format 3 is used to request the status of the level 1 and PER generation controls for a single interface or ISDN protocol channel.

Format 4 will examine the status of every ISDN interface for the indicated SMs reporting those interfaces and ISDN protocol channels that have one or more of the six inhibits active.

Format 5 will report the capacity of the PER logging buffer resident in the SM physical memory. In addition, the current indication status of the PER logging buffer will be reported.

2. FORMAT

[1] OP:ALE[,PRINT];

[2] OP:ALE,SM=a[&&b][,PRINT];

[3] OP:ALE,c[,CH=a][,PRINT];

[4] OP:ALE,SM=a[&&b],CHAN[,PRINT];

[5] OP:ALE,SM=a[&&b],PER=CAP[,PRINT];

3. EXPLANATION OF MESSAGE

Refer to the Acronym section of the Input Messages manual for the full expansion of acronyms shown in the format.

CHAN = Print a list of all inhibited channels for that SM(s).

PRINT = Direct the output to the ROP in addition to the requesting terminal.

a = SM number or the lower limit of a range of SM numbers.

b = The upper limit of a range of SM numbers.

c = Line identification. Valid value(s):
   AIUEN=f-n^1-o^1-p^1
   BST=d-e
   DEN=f-g-h-i
   DN=j
   DNUSEOC=f-e^1-x-y
   DNUSTMC=f-e^1-x-y
d = Operator service center number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

e = Relative position number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

f = SM number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

g = Digital line and trunk unit (DLTU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

h = Digital facility interface (DFI) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

i = Digital channel number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

j = The DN or PKTDN associated with the port. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual. This parameter can only be used to identify channels associated with DSLs.

k = Protocol handler (PH) channel group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

l = PH channel group member number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

m = Integrated services line unit (ISLU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

n = Line group controller number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
o = Line card number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

p = Multi-line hunt group (MLHG) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

q = MLHG member number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

r = Logical port number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

s = Data link (group) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

t = Relative link (member) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

u = Trunk group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

v = Trunk group member number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

w = IDCU number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

x = Remote terminal (RT) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

y = Primary/protection identifier. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

z = RT line number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

a^1 = Channel type (valid only for LCEN and LCKEN line identification). Valid value(s):
    B1 = Channel B1.
    D = D-channel (default).

b^1 = Integrated service line unit 2 (ISLU2) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

c^1 = Line board number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

d^1 = Line circuit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

e^1 = Digital networking unit - synchronous optical network (SONET) (DNU-S) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

f^1 = Data group (DG) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
= Synchronous transport signal (STS) facility number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

= Virtual tributary group (VTG) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

= Digital signal level 0 (DS0) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

= Packet switching unit (PSU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

= PSU shelf number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

= PSU channel group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

= Line group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

= Access interface unit (AIU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

= AIU pack number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

= AIU circuit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

= SONET termination equipment (STE) facility number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

= Virtual tributary member (VTM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

= Peripheral control and timing (PCT) line and trunk unit (PLTU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

= PCT facility interface (PCTFI) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

= Tributary (T1FAC) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

= Channel (CHAN) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

= Virtual BRI line number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

= Virtual trunk facility number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
1. Virtual trunk channel number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

NG = No good. The message was not recognized, or was not acceptable. May also include:
- ALE FEATURE NOT LOADED = The ALE feature is not loaded in the switch software configuration.
- COMMUNICATION FAILURE = A system error has occurred.
- INVALID INPUT = Parameter to allow does not match entity to allow.
- INVALID SM = SM number is invalid.
- PROCESS CREATION FAILURE = A system error has occurred.

PF = Printout follows. The request has been accepted and the OP:ALE message follows.

RL = Retry later. May also include:
- AM IN MIN MODE = The AM is in minimum operation mode.
- REQUEST ALREADY IN PROGRESS = An ALE status request is already running. Only one status request is allowed at a time.

5. REFERENCES

Input Message(s):
ALW:ALE
EXC:ALE
INH:ALE
TST:DSL

Output Message(s):
ALW:ALE
EXC:ALE
INH:ALE
OP:ALE

Input Appendix(es):
APP:RANGES

Other Manual(s):
235-105-110 System Maintenance Requirements and Tools
235-600-755 Protocol Error Record Descriptions
1. PURPOSE

Requests the status of automatic line evaluation (ALE) system control parameters and resource usage.

The control parameters are grouped into three classes.

<table>
<thead>
<tr>
<th>Class</th>
<th>Definition</th>
</tr>
</thead>
<tbody>
<tr>
<td>Automatic ALE Session Output Controls</td>
<td>The parameters LEVEL1, LEVEL2, PRINT, and PER=REPT allow the controls used for generating output information for the automatically requested ALE sessions. These options determine which counts are to be used for the session and where the output is to be directed. These controls have no bearing on the output of information due to a manually requested ALE session.</td>
</tr>
<tr>
<td></td>
<td>The default values for these options are restored on an administrative module (AM) full initialization. No other type of initialization will change the requested settings.</td>
</tr>
<tr>
<td>Switching Module (SM) Controls</td>
<td>The SM parameters control the behavior of the level 1 performance monitoring and protocol error record (PER) generation. Refer to the Protocol Error Record Descriptions manual for additional information about a specific PER.</td>
</tr>
<tr>
<td></td>
<td>If the level 1 parameter is inhibited, then level 1 performance monitoring is not active for all the U-interface digital subscriber lines (DSLs) on the SM. If allowed, then level 1 performance monitoring status for a U-interface DSL is determined by the level 1 performance monitoring group assigned to the DSL.</td>
</tr>
<tr>
<td></td>
<td>Status requests that immediately follow the inhibiting (INH:ALE) of integrated services digital network (ISDN) protocol channels may give an erroneous indication that level 1 performance monitoring has been inhibited. The actual counting of level 1 errored seconds, severely errored seconds, and cyclic redundancy check (CRC) block errors (BE), may not be inhibited for a period of up to 5 minutes. Status requests that immediately follow the allowing (ALW:ALE) of ISDN protocol channels may give an erroneous indication that level 1 performance monitoring is operational. The actual counting of level 1 errored seconds, severely errored seconds, and cyclic redundancy check block errors, may not resume for a period of up to 5 minutes.</td>
</tr>
<tr>
<td></td>
<td>If the PER generation parameter is inhibited, then no PERs will be recorded for any ISDN protocol channels on the SM. If the parameter is allowed, then the PER generation parameter for the individual ISDN protocol channel determines if PERs are recorded for that channel.</td>
</tr>
<tr>
<td></td>
<td>After the introduction of PCF on PHE2 feature, ALE is not to provide performance monitoring error count information on A10/A11/ETHERNET protocols, but should be able to provide the protocol error histories on A10/A11/ETHERNET protocols on PCF PH. There are two kind of PERs:</td>
</tr>
</tbody>
</table>
Line/Trunk Controls

<table>
<thead>
<tr>
<th>Line/Trunk ALE controls consist of a set of level 1 parameters and the PER generation parameter. The level 1 parameters only apply to U-interface DSLs. The PER generation parameter applies to all ISDN protocol channels whether supported on lines or trunks.</th>
</tr>
</thead>
<tbody>
<tr>
<td>The level 1 control parameters consist of an overall level 1 inhibit, hourly alert generation, daily alert generation, interval report generation, and daily report generation. If the overall level 1 inhibit is active, then all level 1 performance monitoring activities for the U-interface are disabled. If the hourly alert generation inhibit is active, then the reporting of hourly alerts to the ROP will be suppressed for the interface. If the daily alert generation inhibit is active, then the reporting of daily alerts to the ROP will be suppressed for the interface. If the interval report generation inhibit is active, then the interface will not contribute to the interval report. If the daily report generation inhibit is active, then the interface will not contribute to the daily report. One or more of the level 1 controls may be active. This information is applicable to U-interface DSLs.</td>
</tr>
<tr>
<td>Status requests that immediately follow the inhibiting (INH:ALE) of ISDN protocol channels may give an erroneous indication that level 1 performance monitoring has been inhibited. The actual counting of level 1 errored seconds, severely errored seconds, and CRC BEs, may not be inhibited for a period of up to 5 minutes. Status requests that immediately follow the allowing (ALW:ALE) of ISDN protocol channels may give an erroneous indication that level 1 performance monitoring is operational. The actual counting of level 1 errored seconds, severely errored seconds, and cyclic redundancy check block errors, may not resume for a period of up to 5 minutes.</td>
</tr>
<tr>
<td>If the PER generation inhibit is active, then no PERs will be recorded for the ISDN protocol channel or the PCF PH.</td>
</tr>
<tr>
<td>In addition to the INH:ALE input message, PER generation may be inhibited as a result of digital loopback testing (TST:DSL), routine exerciser (REX), or mechanized loop testing (MLT). This inhibit condition will exist for the duration of the test being performed for the line/trunk. After completion of the test, the PER inhibit condition will remain for a period of 3 to 6 minutes. After this period has expired, the inhibit condition will be cleared if the status prior to the invocation of the test was &quot;allowed&quot;. If the previous status was not &quot;allowed&quot;, then the line/trunk will remain inhibited.</td>
</tr>
</tbody>
</table>

Format 1 is used to request the status of the automatic ALE session output controls.

Format 2 is used to request the status of switching module (SM) parameters for a range of SMs.

Format 3 is used to request the status of the level 1 and PER generation controls for a single interface or ISDN.
protocol channel or PCF PH.

**NOTE:** For PCF PH, only DSLGM will be supported in this format. Valid value(s):
- DSLGM=ALL-ALL-ALL-ALL = The entire office.
- DSLGM=f-ALL-ALL-ALL = The entire SM.
- DSLGM=f-b\(^{1}\)-ALL-ALL = The entire PCF PH.
- DSLGM=f-b\(^{1}\)-k-l = If validated, the entire PCF PH.

Format 4 will examine the status of every ISDN interface for the indicated SMs reporting those interfaces and ISDN protocol channels that have one or more of the six inhibit factors active.

Format 5 will report the capacity of the PER logging buffer resident in the SM physical memory. In addition, the current indication status of the PER logging buffer will be reported.

Format 6 is used to request the status of PER generation controls for PCF PH.

### 2. FORMAT

1. OP:ALE[,PRINT];
2. OP:ALE,SM=a[&b][,PRINT];
3. OP:ALE,c[,CH=a\(^{1}\)][,PRINT];
4. OP:ALE,SM=a[&b],CHAN[,PRINT];
5. OP:ALE,SM=a[&b],PER=CAP[,PRINT];
6. OP:ALE,PCFIP=z\(^{1}\)-z\(^{1}\)-z\(^{1}\)-z\(^{1}\),PER=GEN[,PRINT];

### 3. EXPLANATION OF MESSAGE

**NOTE:** Refer to the Acronym section of the Input Messages manual for the full expansion of acronyms shown in the format.

- **CHAN** = Print a list of all inhibited channels for that SM(s).
- **PRINT** = Direct the output to the ROP in addition to the requesting terminal.

- **a** = SM number or the lower limit of a range of SM numbers.
- **b** = The upper limit of a range of SM numbers.
- **c** = Line identification. Valid value(s):
  - AIUEN=f-n\(^{1}\)-o\(^{1}\)-p\(^{1}\)
  - BST=d-e
  - DEN=f-g-h-i
  - DN=j
DNUSEOC=f-e^{l}-x-y
DNUSTMC=f-e^{l}-x-y
DSLGM=f-j^{l}-k-l
IDCUEOC=f-w-x-y
IDCUTMC=f-w-x-y
ILEN=f-w-x-z
INEN=f-e^{l}-x-z
LCEN=f-m-n-o
LCKEN=f-b^{l}-m^{l}-c^{l}-d^{l}
MLHG=p-q
NEN=f-e^{l}-f^{l}-q^{l}-g^{l}-h^{l}-r^{l}-i^{l}
OAPD=d
OIUEN=f-a^{2}-b^{2}-c^{2}-d^{2}-h^{l}-r^{l}-i^{l}
OFT=d-e
PKTDN=j
PLTEN=f-s^{l}-t^{l}-u^{l}-v^{l}
PORT=f-u
PSUEN=f-j^{l}-k^{l}-l^{l}-l
RTRS=s-t
TKGMN=u-v
VBRI=f-w^{l}
VTRK=f-x^{l}-y^{l}

d = Operator service center number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
e = Relative position number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
f = SM number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
g = Digital line and trunk unit (DLTU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
h = Digital facility interface (DFI) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
i = Digital channel number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
j = The DN or PKTDN associated with the port. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual. This parameter can only be used to identify channels associated with DSLs.
k = Protocol handler (PH) channel group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
l = PH channel group member number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
m = Integrated services line unit (ISLU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
n = Line group controller number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

o = Line card number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

p = Multi-line hunt group (MLHG) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

q = MLHG member number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

r = Logical port number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

s = Data link (group) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

t = Relative link (member) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

u = Trunk group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

v = Trunk group member number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

w = IDCU number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

x = Remote terminal (RT) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

y = Primary/protection identifier. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

z = RT line number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

a¹ = Channel type (valid only for LCEN and LCKEN line identification). Valid value(s):
    B1 = Channel B1.
    D = D-channel (default).

b¹ = Integrated service line unit 2 (ISLU2) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

c¹ = Line board number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

d¹ = Line circuit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

e¹ = Digital networking unit - synchronous optical network (SONET) (DNU-S) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
f
= Data group (DG) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

g
= Synchronous transport signal (STS) facility number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

h
= Virtual tributary group (VTG) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

i
= Digital signal level 0 (DS0) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

j
= Packet switching unit (PSU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

k
= PSU shelf number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

l
= PSU channel group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

m
= Line group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

n
= Access interface unit (AIU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

o
= AIU pack number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

p
= AIU circuit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

q
= SONET termination equipment (STE) facility number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

r
= Virtual tributary member (VTM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

s
= Peripheral control and timing (PCT) line and trunk unit (PLTU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

t
= PCT facility interface (PCTFI) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

u
= Tributary (T1FAC) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

v
= Channel (CHAN) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

w
= Virtual BRI line number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

x
= Virtual trunk facility number. Refer to the APP:RANGES appendix in the Appendixes section of
the Input Messages manual.

$y^1$ = Virtual trunk channel number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

$z^1$ = IP address field. Valid value is 0-255.

$a^2$ = Optical interface unit (OIU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

$b^2$ = Protection group (PG) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

$c^2$ = Optical carrier level 3 (OC3) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

$d^2$ = Synchronous transport signal level 1 (STS1) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

NG = No good. The message was not recognized, or was not acceptable. May also include:
- ALE FEATURE NOT LOADED = The ALE feature is not loaded in the switch software configuration.
- COMMUNICATION FAILURE = A system error has occurred.
- INVALID INPUT = Parameter to allow does not match entity to allow.
- INVALID SM = SM number is invalid.
- PROCESS CREATION FAILURE = A system error has occurred.

PF = Printout follows. The request has been accepted and the OP:ALE message follows.

RL = Retry later. May also include:
- AM IN MIN MODE = The AM is in minimum operation mode.
- REQUEST ALREADY IN PROGRESS = An ALE status request is already running. Only one status request is allowed at a time.

5. REFERENCES

Input Message(s):
- ALW:ALE
- EXC:ALE
- INH:ALE
- TST:DSL

Output Message(s):
- ALW:ALE
- EXC:ALE
- INH:ALE
- OP:ALE
Input Appendix(es):

APP: RANGES

Other Manual(s):
235-105-110  System Maintenance Requirements and Tools
235-600-755  Protocol Error Record Descriptions
1. PURPOSE

Requests alarm summary of either off-normal or all alarm scan points.

Format 1 is for requesting remote switching module (RSM), optical remote module (ORM), or two-mile remote module (TRM) metallic service unit (MSU) building/power alarm scan points. This message is available only in an RSM, ORM, or TRM that has the alarm input option. Format 2 is for requesting remote integrated services line unit (RISLU) or expansion access interface unit (EAIU) alarm scan points, either for a single remote peripheral or all remote peripherals at a specified site. When requested for a single remote peripheral, normal and off-normal states are output. When requested for a site, only off-normal states are output unless ALL is specified. Format 3 is for requesting remote alarm section (RAS) scan points. Format 4 requests that all active alarms in the office be printed. Alarms included are:
- Administrative module (AM) fan alarms.
- Local office building/power and miscellaneous alarms.
- Common network interface (CNI) alarms.
- Communication module (CM) fan and fan fuse alarms.
- Miscellaneous frame fan and fuse alarms.
- External sanity monitor (ESM) alarms.
- CM power alarms.
- Carrier group alarms.
- Fan and fan/peripheral fuse alarms for all operational switching modules (SMs).
- Building/power alarms for remoted SMs.
- Remote peripheral building/miscellaneous alarms.
- Expansion access interface unit (EAIU) fan and fuse alarms.
- Remote integrated services line unit (RISLU) fan, fuse, power, and battery alarms.
- Multiplex access interface unit (XAIU) fan and fuse alarms.
- Metallic service unit (MSU) alarms.
- Integrated TR008/TR303 remote terminal (RT) alarms.

(TR008 RTs can be the SLC® 96, Series 5 Feature Package B, and Enhanced B. TR303 TRs can be the Series 5 feature package 303G.)

Note: In the case of MSU alarms, the status of all MSU scan points will be reported regardless of whether they are active or inactive.

Format 5 is for requesting XAIU alarm scan points. Normal and off-normal states are output.

WARNING: Format 4 of this message is resource and receive-only printer (ROP) intensive and should be run only during off hours. Also, if Format 4 of this message is being used at the Switch Control Center (SCC), only one office should be interrogated for office alarm status (OP:ALM-ALL) at a time because the potential exists for overwriting data at the SCC.

2. FORMAT
3. EXPLANATION OF MESSAGE

Note: Refer to the Acronym section of the Input Messages manual for the full expansion of acronyms shown in the format.

ALL = When used with formats one through three, report on all scan points including ones that are in the normal state in the specified SM or at the specified site. When used with Format 4, report all active alarms in the office.

RBPSC = Remote building/power scan point.

RP = Remote peripheral.

XAIU = Multiplex access interface unit.

a = SM number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

b = RISLU number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

c = Remote peripheral site number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

d = EAIU number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

e = XAIU number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

NG = No good. Invalid SM, site number, or option not available. The request could also be denied due to a system problem which would include one of the following:
- INTERNAL ERROR (OPEN FAIL1) /etc/HMBLDALMS = The request cannot be completed because the file /etc/HMBLDALMS cannot be opened for reading. There is either a system problem preventing it being opened or it is missing.
- INTERNAL ERROR (READ FAIL1) /etc/HMBLDALMS = The request cannot be completed because the file /etc/HMBLDALMS cannot be read. There is a system problem preventing it being read.

PF = Printout follows. An OP:ALM-ALL, OP:ALM-RBPSC, OP:ALM-RAS, OP:ALM-RP or
OP:ALM-RISLUSC output message will follow in response to the request.

RL = Retry later. For Formats 1, 2, 3, and 5, unable to process request or unable to communicate with SM. For Format 4, the request is being denied due to unavailable resources necessary for completing the request. Includes the following:
- **ALREADY IN PROGRESS** = A previous OP:ALM request is still in progress.
- **CGA SUMMARY IN PROGRESS** = A previous OP:CGA request is still in progress.
- **CM IS ISOLATED** = The CM is currently isolated.
- **CM SIDES HAVE INCONSISTENT VINTAGES** = The CM sides are in a transient state and not the same vintage (one side is a CM model 1 and the other side is a CM model 2).
- **RT ALARM SUMMARY IN PROGRESS** = A previous OP:RT-ALM-ALL request is still in progress.

5. REFERENCES

Input Message(s):

- CLR:OP-ALM-ALL
- OP:CFGSTAT
- OP:CGA
- OP:MSUSP
- OP:RT-ALM-ALL
- STP:OP-ALM-ALL

Output Message(s):

- OP:ALM-ALL
- OP:ALM-RBPSC
- OP:CFGSTAT-CM
- OP:CGA
- OP:MSUSP
- OP:RT-ALARM
- REPT:ALM
- OP:ALM-RISLUSC

Input Appendix(es):

- APP:RANGES
OP:AMA-CONFIG
Software Release: 5E14 and later
Command Group: AMA
Application: 5
Type: Input

1. PURPOSE
Requests the current status of the automatic message accounting (AMA) configuration files.

2. FORMAT
OP:AMA:CONFIG[,{ST1|ST2}];

3. EXPLANATION OF MESSAGE

ST1 = Used if AMA data goes to the ST1 data stream.
ST2 = Used if AMA data goes to the ST2 data stream.

Note: For a single data stream office, the stream does not have to be specified as either an ST1 or an ST2. However, for a dual stream office, the stream must be specified as either an ST1 or an ST2.

4. SYSTEM RESPONSE

NG = No good. Data stream checks failed.
PF = Printout follows. State of the configuration files will be output.
RL = Retry later. Process could not attach to a protected application segment, or a message could not be sent to the monitor process.

5. REFERENCES
Input Message(s):
   SET:AMA-CONFIG

Output Message(s):
   REPT:AMA-CONFIG
OP:AMA-CONTROLF

Software Release: 5E14 and later
Command Group: AMA
Application: 5
Type: Input

1. PURPOSE

Requests that the current state of the automatic message accounting (AMA) control file be obtained.

2. FORMAT

OP:AMA:CONTROLFILE[,ST1|,ST2];

3. EXPLANATION OF MESSAGE

ST1 = Used if AMA data goes to the ST1 data stream.
ST2 = Used if AMA data goes to the ST2 data stream.

Note: For a single data stream office, the stream does not have to be specified as either an ST1 or ST2. However, for a dual stream office, the stream must be specified as either an ST1 or ST2.

4. SYSTEM RESPONSE

NG = No good. Data stream checks failed.
PF = Printout follows. Followed by output message REPT:AMA-CONT.
RL = Retry later. Message could not be sent to the AMA monitor process.

5. REFERENCES

Input Message(s):

ALW:AMA-AUTOST
ALW:AMA-SESSION
INH:AMA-AUTOST
INH:AMA-SESSION
OP:AMA-STREAM
SET:AMA-CONTROL

Output Message(s):

REPT:AMA-CONT
OP:AMA-DISK

Software Release: 5E14 and later
Command Group: AMA
Application: 5
Type: Input

1. PURPOSE

Requests current automatic message accounting (AMA) disk space occupancy data. The output displays a truncated percentage of disk space occupied by primary AMA records. In addition, the output also displays the number of primary AMA blocks in use on disk. Because the percentage is truncated, if 0% is displayed, there may still be a small amount of primary data left on disk.

If the alarm levels have been changed in RC/V View 8.1, then there is a possibility that the alarm status has changed. The use of this input message permits the output of the appropriate upgrade and/or downgrade alarm messages along with the appropriate alarm.

During software transitions when the retrofit site file exists, this message only works once the disks are accessed during the session and immediately after a tape or teleprocessing session on the offline side. Once the disks are accessed, it reflects the percent and blocks on disk as they are known to the AMA disk reader (reflecting any data marked as secondary as the session progresses). Prior to such sessions, it gives invalid output and does not reflect the percentage or number of blocks on either the online or offline sides. When the retrofit site file does not exist, the input message works on the online side at all times before, during and after tape or teleprocessing sessions.

2. FORMAT

OP:AMA:DISK[, {ST1|ST2}];

3. EXPLANATION OF MESSAGE

ST1 = Used if AMA data goes to the ST1 data stream.
ST2 = Used if AMA data goes to the ST2 data stream.

Note: For a single data stream office, the stream does not have to be specified as either an ST1 or ST2. However, for a dual stream office, the stream must be specified as either an ST1 or ST2.

4. SYSTEM RESPONSE

NG = No good. Data stream checks failed.
PF = Printout follows. Followed by REPT:AMA-DISK-SUM output message.
RL = Retry later. Status cannot be obtained.

5. REFERENCES

Input Message(s):
OP:AMA-MAPS
OP:AMA-STREAM

Output Message(s):

REPT:AMA-CRIT
REPT:AMA-DISK-ALM
REPT:AMA-DISK-STO
REPT:AMA-DISK-SUM
REPT:AMA-MAJOR
REPT:AMA-MINOR

Other Manual(s):

Where ‘x’ is the release-specific version of the specified manual.

235-105-24x Generic Retrofit Procedures

RC/V View(s):

8.1 [OFFICE PARAMETERS (MISCELLANEOUS)]
OP:AMA-MAINT

Software Release: 5E14 and later
Command Group: AMA
Application: 5
Type: Input

1. PURPOSE

Requests that the automatic message accounting (AMA) maintenance file be obtained.

2. FORMAT

OP:AMA:MAINTFILE[,ST1|,ST2];

3. EXPLANATION OF MESSAGE

<table>
<thead>
<tr>
<th>ST1</th>
<th>Used if AMA data goes to the ST1 data stream.</th>
</tr>
</thead>
<tbody>
<tr>
<td>ST2</td>
<td>Used if AMA data goes to the ST2 data stream.</td>
</tr>
</tbody>
</table>

Note: For a single data stream office, the stream does not have to be specified as either an ST1 or ST2. However, for a dual stream office, the stream must be specified as either an ST1 or ST2.

4. SYSTEM RESPONSE

| NG   | No good. The stream checks failed.           |
| PF   | Printout follows. Followed by REPT:AMA-MAINT output message. |
| RL   | Retry later. The message could not be sent to the appropriate monitor process(es). The input process cannot attach to the protected application segment (PAS). |

5. REFERENCES

Input Message(s):

OP:AMA-SUMMARY

Output Message(s):

REPT:AMA-MAINT
REPT:AMA-TELE-SUM
OP:AMA-MAPS
Software Release: 5E14 and later
Command Group: AMA
Application: 5
Type: Input

1. PURPOSE
Requests the contents of the disk maps for all partitions and the contents of the global maps for each stream. During software transitions when the retrofit site file exists, this input message only works on the online side.

2. FORMAT

OP:AMA:MAPS[,ST1|,ST2];

3. EXPLANATION OF MESSAGE

ST1 = Used if AMA data goes to the ST1 data stream.
ST2 = Used if AMA data goes to the ST2 data stream.

Note: For a single data stream office, the stream does not have to be specified as either an ST1 or an ST2.

4. SYSTEM RESPONSE

NG = No good. Stream value is invalid.
PF = Printout follows. The contents of the disk maps and global maps for all partitions equipped is output.
RL = Retry later. Process could not attach to a protected application segment.

5. REFERENCES

Input Message(s):
OP:AMA-CONFIG
OP:AMA-DISK
OP:AMA-STREAM

Output Message(s):
REPT:AMA-DISK-MAP

Other Manual(s):
Where 'x' is the release-specific version of the specified manual.
OP:AMA-SEQ

Software Release: 5E14 and later
Command Group: AMA
Application: 5
Type: Input

1. PURPOSE

Indicate which disk blocks correspond to a given block sequence number, and the automatic message accounting (AMA) partitions on which they are located. The contents of these block sequence numbers are dumped to the receive-only printer (ROP) in hexadecimal. One block sequence number contains 1536 bytes and is made up of three disk blocks.

2. FORMAT

OP:AMA:SEQ,BLK=a[,ST1|ST2];

3. EXPLANATION OF MESSAGE

SEQ = Output disk blocks corresponding to the given block sequence number.
ST1 = Used if AMA data goes to the ST1 data stream.
ST2 = Used if AMA data goes to the ST2 data stream.
a = Block sequence number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

Note: If the block sequence numbers on the partition consists of the contiguous range [1-27,84-111], then the block sequence numbers are addressed as a continuous sequence [1-55].

4. SYSTEM RESPONSE

PF = Printout follows. Followed by REPT:AMA-SEQ output message.

5. REFERENCES

Input Message(s):

DUMP:MHD-BLOCK
DUMP:MHD-VTOC
OP:AMA-MAPS

Output Message(s):

DUMP:MHD-BLOCK
DUMP:MHD-VTOC
REPT:AMA-SEQ
REPT:AMA-DISK-MAP
Input Appendix(es):

APP: RANGES
OP:AMA-SESSION

Software Release: 5E14 and later
Command Group: AMA
Application: 5
Type: Input

1. PURPOSE

Requests a report of the current or most recent automatic message accounting (AMA) tape or teleprocessing session.

2. FORMAT

OP:AMA:SESSION[,ST1|,ST2];

3. EXPLANATION OF MESSAGE

ST1 = AMA data goes to the ST1 data stream.
ST2 = AMA data goes to the ST2 data stream.

Note: For a single data stream office, the stream does not have to be specified as either an ST1 or ST2.

4. SYSTEM RESPONSE

NG = No good. Data stream checks failed or AMA data networking services processing is active.

PF = Printout follows. If any invalid data was encountered while processing the input message, an REPT:AMA-CONT output message will follow. Also following this printout is the REPT:AMA-TELE-SE output message if the AMA teleprocessing option is in effect or a REPT:AMA-TAPE-SES output message if the tape option is in effect. If there was no previous tape session, then the month field for START TIME, FIRST BLOCK and LAST BLOCK in this output will be printed as ??? indicating no valid month is applicable in that situation. Similarly, if there was no previous teleprocessing session, then the month field for START TIME and STOP TIME in the output will be printed as ???.

RL = Retry later. Message could not be sent to the appropriate process.

5. REFERENCES

Input Message(s):

OP:AMA-STREAM

Output Message(s):

REPT:AMA-CONT
REPT:AMA-TELE-SE
REPT:AMA-TAPE-SES
OP:AMA-STATUS
Software Release: 5E14 and later
Command Group: AMA
Application: 5
Type: Input

1. PURPOSE
Requests the printing of the automatic message accounting (AMA) record status in the administrative module (AM) buffer.

2. FORMAT
OP:AMA:STATUS;

3. EXPLANATION OF MESSAGE
No variables.

4. SYSTEM RESPONSE
NG = No good. The stream checks failed.
PF = Printout follows. Followed by the REPT:AMA-STATUS output message.
RL = Retry later. Necessary resources are not available. The input process cannot attach to the AM buffer.

5. REFERENCES
Output Message(s):
REPT:AMA-STATUS
OP:AMA-SUMMARY

Software Release: 5E14 and later
Command Group: AMA
Application: 5
Type: Input

1. PURPOSE
Requests automatic message accounting (AMA) teleprocessing and tape summary data.

Note: For tape summary, enter the OP:AMA-CONTROL input message, prior to entering this message.

2. FORMAT
OP:AMA:SUMMARY;

3. EXPLANATION OF MESSAGE
No variables.

4. SYSTEM RESPONSE

NG = No good. The stream checks failed.
PF = Printout follows. Followed by REPT:AMA-TAPE-SUM output message.
RL = Retry later. The message could not be sent to the appropriate monitor process(es). The input process cannot attach to the Protected Application Segment (PAS).

5. REFERENCES
Input Message(s):

OP:AMA-SUMMARY

Output Message(s):

REPT:AMA-TAPE-SUM
OP:AMA-TELE

Software Release: 5E14 and later
Command Group: AMA
Application: 5
Type: Input

1. PURPOSE
Requests automatic message accounting (AMA) teleprocessing summary data that has been accumulated today.

2. FORMAT
OP:AMA:TELEPROCESSING[,ST1|,ST2];

3. EXPLANATION OF MESSAGE
ST1 = Used if AMA data goes to the ST1 data stream.
ST2 = Used if AMA data goes to the ST2 data stream.
Note: For a single data stream office, the stream does not have to be specified as either an ST1 or ST2. However, for a dual stream office, the stream must be specified as either an ST1 or ST2.

4. SYSTEM RESPONSE
NG = No good. Tape option is in effect, data stream checks failed, or AMA data networking services processing is active.
PF = Printout follows. Followed by a REPT:AMA-TELE-SE output message if the teleprocessing option is in effect. If invalid data was encountered while processing the input message, an audit printout will follow.
RL = Retry later. The message could not be sent.

5. REFERENCES
Input Message(s):
OP:AMA-STREAM

Output Message(s):
REPT:AMA-SESSIONS
REPT:AMA-TELE-SE
OP:AMAIRR

Software Release: 5E14 and later
Command Group: AMA
Application: 5
Type: Input

1. PURPOSE

Requests the current status of the automatic message accounting irregularity (AMAIRR) record reporting feature.

2. FORMAT

OP:AMAIRR;

3. EXPLANATION OF MESSAGE

No variables.

4. SYSTEM RESPONSE

PF = Printout follows. The request was accepted. The OP:AMAIRR output message follows.

5. REFERENCES

Input Message(s):

ALW:AMAIRR
INH:AMAIRR

Output Message(s):

OP:AMAIRR
REPT:AMAIRR
OP:AMALOST

Software Release: 5E14 and later
Command Group: AMA
Application: 5
Type: Input

1. PURPOSE

Requests the current status of the automatic message accounting lost (AMALOST) record reporting feature.

2. FORMAT

OP:AMALOST;

3. EXPLANATION OF MESSAGE

No variables.

4. SYSTEM RESPONSE

PF = Printout follows. The request was accepted. The OP:AMALOST output message will follow.

5. REFERENCES

Input Message(s):

ALW:AMALOST
ALW:AMATRC
INH:AMALOST

Output Message(s):

OP:AMALOST
REPT:AMALOST
OP:AMATRC

Software Release: 5E14 and later
Command Group: AMA
Application: 5
Type: Input

1. PURPOSE
Requests the current status of the automatic message accounting (AMA) record reporting feature AMATRC.

2. FORMAT
OP:AMATRC;

3. EXPLANATION OF MESSAGE
No variables.

4. SYSTEM RESPONSE

PF = Printout follows. The request was accepted. The OP:AMATRC output message will follow.

5. REFERENCES
Input Message(s):

ALW:AMATRC
INH:AMATRC

Output Message(s):

OP:AMATRC
REPT:AMATRC
OP:AML

Software Release: 5E14 and later
Command Group: TRKLN
Application: 5
Type: Input

1. PURPOSE
Requests that the number of out-of-service (OOS) trunks be printed in relation to the automatic maintenance limit (AML) for a specified trunk group or a list of all trunk groups whose outages have reached their AML.

Note: Only outgoing and two-way trunk groups have an AML; no AML is kept for incoming trunk groups.

2. FORMAT

OP:AML[,TG=a];

3. EXPLANATION OF MESSAGE

a = Trunk group number (TGN) whose AML count is desired. Default prints all TGNs that have reached their AML.

Note: If an ‘*’ has appeared for a trunk group in a previous OP:AML output message, then specifying a trunk group for this input message should retire the ‘*’. If it does not, then communication to all the modules associated with the trunk group has not been restored.

4. SYSTEM RESPONSE

PF = Printout follows. The request has been accepted. The OP:AML output message will follow identifying the OOS count and AML.

RL = Retry later. The request has been denied because of system load.

5. REFERENCES

Output Message(s):

OP:AML
REPT:AML-REACH
OP:ANITBL

Software Release: 5E14 and later
Command Group: NOCHK
Application: 5
Type: Input

1. PURPOSE
Requests a summary report of the ANI Index Table (RC View 8.58) and LDP Index Table (RC View 8.59).

2. FORMAT
OP:ANITBL, SM=a[&b];

3. EXPLANATION OF MESSAGE
a = Individual Switching Module (SM) number or lower limit for a range of SM number.
b = Upper limit for a range of SM number.

4. SYSTEM RESPONSE
NG = No good.
PF = Printout follows.
RL = Retry later. One possible condition is that another OP:ANITBL job is in progress. Only one job is allowed at a time.

5. REFERENCES
Output Message(s):
OP:ANITBL
OP:APSSTAT

Software Release: 5E16(1) and later
Command Group: MAINT
Application: 5
Type: Input

1. PURPOSE

Requests automatic protection switching (APS) status of optical carrier - level 3 (OC3) or optical carrier - level 3 concatenated (OC3C) circuits for optical interface units (OIs) in a switching module (SM) or a range of SMs. If the ALL option is not specified, the request is for circuits with off-normal APS state only.

2. FORMAT

OP:APSSTAT,SM=a[&b],[,ALL];

3. EXPLANATION OF MESSAGE

ALL = Applies to all OC3(C) circuits with normal and off-normal APS states in the specified SM or a range of SMs.

a = SM number or lower end of a range of SM numbers. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

b = High end of range of SM numbers.

4. SYSTEM RESPONSE

NG = No good. The message form is valid, but the request conflicts with current status.

PF = Printout follows. Followed by the OP:APSSTAT output message.

RL = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

Output Message(s):

OP:APSSTAT

Input Appendix(es):

APP:RANGES

Other Manual(s):
235-105-110 System Maintenance Requirements and Tools
235-105-220 Corrective Maintenance

MCC Display Page(s):
1491 OIU OC3(C) STATUS
OP:APT

Software Release: 5E14 and later
Command Group: TRKLN
Application: 5
Type: Input

1. PURPOSE
Displays the status of an automatic (Trunk) progression test (APT) session.

2. FORMAT
OP:APT;

3. EXPLANATION OF MESSAGE
No variables.

4. SYSTEM RESPONSE
Refer to the System Responses Table in the Input Messages User Guidelines.

5. REFERENCES
Input Message(s):

   SCHED:APT

Output Message(s):

   OP:APT
   REPT:APT-ABORT
   REPT:APT-COMPL
   REPT:APT-FAIL
   REPT:APT-RESUME
   REPT:APT-START
   REPT:APT-STOP
   REPT:APT-SUSPEND
OP:ARC

Software Release: 5E14 and later
Command Group: NMOC
Application: 5
Type: Input

1. PURPOSE
Lists all alternate route cancellation (ARC) controls in the office. This includes the following information for each control:

- Office name.
- Type of control initiated.
- Type of traffic subject to the control.
- Announcement treatment if blocking occurs.

This message is valid only for defense switched network (DSN) switches.

2. FORMAT
OP:ARC;

3. EXPLANATION OF MESSAGE
No variables.

4. SYSTEM RESPONSE

PF = Printout follows. Followed by the OP:ARC output message.

RL = Retry later. May also include:
- CONFLICTING REQUEST = A similar request is being processed utilizing necessary resources.
- RESOURCE SHORTAGE = The necessary resources are not available.

5. REFERENCES
Input Message(s):

CLR:ARC
OP:DSNM5
SET:ARC

Output Message(s):

OP:ARC
OP:ASPTQ-A

Software Release: 5E14 only
Command Group: CCS
Application: 5
Type: Input

1. PURPOSE

Requests displaying the advanced services platform (ASP) 0.1 test query parameters associated with a specified message type. By specifying a message type of ALL, all of the ASP 0.1 test query parameters are displayed.

2. FORMAT

OP:ASPTQ,MSGTYPE=a;

3. EXPLANATION OF MESSAGE

\( a \) = The message type. For convenience, the test query parameters associated with each message type are listed below.

Note: The message type of NPINFOANAL is not allowed for the OP:ASPTQ message. Refer to the parameters associated with the number portability (NP) test query (TST:ASPTQ,MSGTYPE=NPINFOANAL), the NP test query operation must be performed first, then OP:ASPTQ,MSGTYPE=INFOANAL can be executed to refer to the parameters used by the previously sent NP test query.

CLOSE = Close.
- AIN maintenance parameter.
- Bearer capability.
- Close cause.
- User ID.

INFOANAL = Information analyzed.
- Access code.
- AIN maintenance parameter.
- Bearer capability.
- Called party ID.
- Calling party business group ID.
- Calling party ID.
- Charge number.
- Charge party station type.
- Collected address information.
- Collected digits.
- Global title address.
- Local access and transport area.
- Original called party ID.
- Origination point code.
- Primary carrier.
- Redirecting party ID.
- Redirection information.
- Timer.
- Translation type.
- Traveling class mark.
- Trigger criteria type.
- User ID.
- Vertical service code.

INFOCOLL = Information collected.
- Access code.
- AIN maintenance parameter.
- Bearer capability.
- Calling party ID.
- Charge number.
- Charge party station type.
- Collected address information.
- Collected digits.
- Generic address list.
- Global title address.
- Local access and transport area.
- Original called party ID.
- Origination point code.
- Primary carrier.
- Redirecting party ID.
- Redirection information.
- Timer.
- Translation type.
- Traveling class mark.
- Trigger criteria type.
- User ID.
- Vertical service code.

NTWKBSY = Network Busy.
- Bearer capability.
- Called party ID.
- Calling party ID.
- Charge number.
- Charge party station type.
- Local access and transport area.
- Notification indicator.
- Original called party ID.
- Origination point code.
- Primary carrier.
- Redirecting party ID.
- Redirection information.
- Timer.
- Traveling class mark.
- Trigger criteria type.
- User ID.
- Vertical service code.

OANSWER = Originating answer.
- AIN maintenance parameter.
- Bearer capability.
- Notification indicator.
- User ID.

**OCLDPTYBSY** = Originating called party busy.
- AIN maintenance parameter.
- Bearer capability.
- Busy cause.
- Called party ID.
- Calling party ID.
- Charge number.
- Charge party station type.
- Local access and transport area.
- Notification indicator.
- Original called party ID.
- Origination point code.
- Primary carrier.
- Redirecting party ID.
- Redirection information.
- Timer.
- Trigger criteria type.
- User ID.

**ODISCONNECT** = Originating disconnect
- AIN maintenance parameter.
- Bearer capability.
- Disconnect cause.
- Notification indicator.
- User ID.

**ODTMFENTRD** = Originating dial tone multi-frequency (DTMF) entered.
- AIN maintenance parameter.
- Bearer capability.
- DTMF digits detected.
- Notification indicator.
- User ID.

**ONOANSWER** = Originating no answer.
- AIN maintenance parameter.
- Bearer capability.
- Called party ID.
- Calling party ID.
- Charge number.
- Charge party station type.
- Local access and transport area.
- Notification indicator.
- Origination point code.
- Original called party ID.
- Primary carrier.
- Redirecting party ID.
- Redirection information.
- Timer.
- Trigger criteria type.
- User ID.

**ORIGAT** = Origination attempt.
- AIN maintenance parameter.
- Bearer capability.
- Calling party ID.
- Charge number.
- Charge party station type.
- Global title address.
- Local access and transport area.
- Origination point code.
- Primary carrier.
- Timer.
- Translation type.
- Trigger criteria type.
- User ID.

**OTERMZD** = Originating termination seized.
- AIN maintenance parameter.
- Bearer capability.
- Notification indicator.
- User ID.

**TANSWER** = Terminating answer.
- AIN maintenance parameter.
- Bearer capability.
- Notification indicator.
- User ID.

**TBUSY** = Terminating busy.
- AIN maintenance parameter.
- Bearer capability.
- Busy cause.
- Busy type.
- Called party ID.
- Called party station type.
- Calling party ID.
- Charge number.
- Charge party station type.
- Generic name.
- Local access and transport area.
- Notification indicator.
- Original called party ID.
- Origination point code.
- Redirecting party ID.
- Redirection information.
- Timer.
- Trigger criteria type.
- User ID.
**TERMAT** = Termination attempt.
- AIN maintenance parameter.
- Bearer capability.
- Called party ID.
- Called party station type.
- Calling party ID.
- Charge number.
- Charge party station type.
- Generic name.
- Global title address.
- Local access and transport area.
- Original called party ID.
- Origination point code.
- Redirecting party ID.
- Redirection information.
- Timer.
- Translation type.
- Traveling class mark.
- Trigger criteria type.
- User ID.

**TNOANSWER** = Terminating no answer.
- AIN maintenance parameter.
- Bearer capability.
- Called party ID.
- Called party station type.
- Calling party ID.
- Charge number.
- Charge party station type.
- Generic name.
- Local access and transport area.
- Notification indicator.
- Original called party ID.
- Origination point code.
- Redirecting party ID.
- Redirection information.
- Timer.
- Trigger criteria type.
- User ID.

**TRMRSCAVL** = Terminating resource available.
- AIN maintenance parameter.
- Bearer capability.
- Notification indicator.
- User ID.

**RESCLR** = Resource clear.
- AIN maintenance parameter.
- AMA measurement.
- Clear cause.
- Collected address information.
- Collected digits.
- Failure cause.
- Primary carrier.
- Timer.

ALL = All of the ASP 0.1 test query parameters.
- Access code.
- AIN maintenance parameter.
- AMA measurement.
- Bearer capability.
- Busy cause.
- Called party ID.
- Called party station type.
- Calling party business group ID.
- Calling party ID.
- Charge number.
- Charge party station type.
- Clear cause.
- Close cause.
- Collected address information.
- Collected digits.
- Disconnect cause.
- DTMF digits detected.
- Failure cause.
- Generic address list.
- Generic name.
- Global title address.
- Local access and transport area.
- Notification indicator.
- Original called party ID.
- Origination point code.
- Primary carrier.
- Redirecting party ID.
- Redirection information.
- Timer.
- Translation type.
- Traveling class mark.
- Trigger criteria type.
- User ID.
- Vertical service code.

4. SYSTEM RESPONSE

NO = The request is not allowed. Includes the following:
- FEATURE NOT AVAILABLE = The ASP 0.1 feature must be purchased before attempting to display ASP 0.1 test query parameters.

PF = Printout follows. Followed by an OP:ASPTQ output message.
= Retry later. Valid value(s):
- INTERNAL ERROR = An internal error was encountered and processing could not continue.

5. REFERENCES

Input Message(s):

CLR:ASPTQ
SET:ASPTQ
TST:ASPTQ

Output Message(s):

OP:ASPTQ

Other Manual(s):

235-190-126  Advanced Services Platform
OP:ASPTQ-B

Software Release: 5E15 and later
Command Group: CCS
Application: 5
Type: Input

1. PURPOSE

Requests displaying the advanced services platform (ASP) 0.1 test query parameters associated with a specified message type. By specifying a message type of ALL, all of the ASP 0.1 test query parameters are displayed.

2. FORMAT

OP:ASPTQ,MSGTYPE=a;

3. EXPLANATION OF MESSAGE

a = The message type. For convenience, the test query parameters associated with each message type are listed below.

NOTE: The message type of NPINFOANAL is not allowed for the OP:ASPTQ message. Refer to the parameters associated with the number portability (NP) test query (TST:ASPTQ,MSGTYPE=NPINFOANAL), the NP test query operation must be performed first, then OP:ASPTQ,MSGTYPE=INFOANAL can be executed to refer to the parameters used by the previously sent NP test query.

CLOSE = Close.
- AIN maintenance parameter.
- Bearer capability.
- Close cause.
- User ID.

INFOANAL = Information analyzed.
- Access code.
- AIN maintenance parameter.
- Bearer capability.
- Called party ID.
- Calling party business group ID.
- Calling party ID.
- Charge number.
- Charge party station type.
- Collected address information.
- Collected digits.
- Global title address.
- Local access and transport area.
- Original called party ID.
- Origination point code.
- Primary carrier.
- Redirecting party ID.
- Redirection information.
- Signaling Platform.
- Timer.
- Translation type.
- Traveling class mark.
- Trigger criteria type.
- User ID.
- Vertical service code.

**INFOCOLL** = Information collected.

- Access code.
- AIN maintenance parameter.
- Bearer capability.
- Calling party ID.
- Charge number.
- Charge party station type.
- Collected address information.
- Collected digits.
- Extension.
- Generic address list.
- Global title address.
- Local access and transport area.
- Original called party ID.
- Origination point code.
- Primary carrier.
- Redirecting party ID.
- Redirection information.
- Signaling Platform.
- Timer.
- Translation type.
- Traveling class mark.
- Trigger criteria type.
- User ID.
- Vertical service code.

**NTWKBSY** = Network Busy.

- Bearer capability.
- Called party ID.
- Calling party ID.
- Charge number.
- Charge party station type.
- Local access and transport area.
- Notification indicator.
- Original called party ID.
- Origination point code.
- Primary carrier.
- Redirecting party ID.
- Redirection information.
- Signaling Platform.
- Timer.
- Traveling class mark.
- Trigger criteria type.
- User ID.

**OANSWER** = Originating answer.

- AIN maintenance parameter.
- Bearer capability.
- Notification indicator.
- User ID.

**OCLDPTYBSY** = Originating called party busy.
- AIN maintenance parameter.
- Bearer capability.
- Busy cause.
- Called party ID.
- Calling party ID.
- Charge number.
- Charge party station type.
- Local access and transport area.
- Notification indicator.
- Original called party ID.
- Origination point code.
- Primary carrier.
- Redirecting party ID.
- Redirection information.
- Signaling Platform.
- Timer.
- Trigger criteria type.
- User ID.

**ODISCONNECT** = Originating disconnect
- AIN maintenance parameter.
- Bearer capability.
- Disconnect cause.
- Notification indicator.
- User ID.

**ODTMFENTRD** = Originating dial tone multi-frequency (DTMF) entered.
- AIN maintenance parameter.
- Bearer capability.
- DTMF digits detected.
- Notification indicator.
- User ID.

**ONOANSWER** = Originating no answer.
- AIN maintenance parameter.
- Bearer capability.
- Called party ID.
- Calling party ID.
- Charge number.
- Charge party station type.
- Local access and transport area.
- Notification indicator.
- Origination point code.
- Original called party ID.
- Primary carrier.
- Redirecting party ID.
- Redirection information.
- Signaling Platform.
- Timer.
- Trigger criteria type.
- User ID.

**ORIGAT** = Origination attempt.
- AIN maintenance parameter.
- Bearer capability.
- Calling party ID.
- Charge number.
- Charge party station type.
- Global title address.
<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>OTERMSZD</td>
<td>Originating termination seized.</td>
</tr>
<tr>
<td>TANSWER</td>
<td>Terminating answer.</td>
</tr>
<tr>
<td>TBUSY</td>
<td>Terminating busy.</td>
</tr>
</tbody>
</table>

- Local access and transport area.
- Origination point code.
- Primary carrier.
- Signaling Platform.
- Timer.
- Translation type.
- Trigger criteria type.
- User ID.

**OTERMSZD**
- AIN maintenance parameter.
- Bearer capability.
- Notification indicator.
- User ID.

**TANSWER**
- AIN maintenance parameter.
- Bearer capability.
- Notification indicator.
- User ID.

**TBUSY**
- AIN maintenance parameter.
- Bearer capability.
- Busy cause.
- Busy type.
- Called party ID.
- Called party station type.
- Calling party ID.
- Charge number.
- Charge party station type.
- Generic name.
- Local access and transport area.
- Notification indicator.
- Original called party ID.
- Origination point code.
- Redirecting party ID.
- Redirection information.
- Signaling Platform.
- Timer.
- Trigger criteria type.
- User ID.

TERMAT = Termination attempt.
- AIN maintenance parameter.
- Bearer capability.
- Called party ID.
- Called party station type.
- Calling party ID.
- Charge number.
- Charge party station type.
- Generic name.
- Global title address.
- Local access and transport area.
- Original called party ID.
- Origination point code.
- Redirecting party ID.
- Redirection information.
- Signaling Platform.
- Timer.
- Translation type.
- Traveling class mark.
- Trigger criteria type.
- User ID.

TNOANSWER = Terminating no answer.
- AIN maintenance parameter.
- Bearer capability.
- Called party ID.
- Called party station type.
- Calling party ID.
- Charge number.
- Charge party station type.
- Generic name.
- Local access and transport area.
- Notification indicator.
- Original called party ID.
- Origination point code.
- Redirecting party ID.
- Redirection information.
- Signaling Platform.
- Timer.
- Trigger criteria type.
- User ID.

TRMRSRCAVL = Terminating resource available.
- AIN maintenance parameter.
- Bearer capability.
- Notification indicator.
- User ID.

RESCLR = Resource clear.
- AIN maintenance parameter.
- AMA measurement.
- Clear cause.
- Collected address information.
- Collected digits.
- Failure cause.
- Primary carrier.
- Timer.

**ALL** = All of the ASP 0.1 test query parameters.
- Access code.
- AIN maintenance parameter.
- AMA measurement.
- Bearer capability.
- Busy cause.
- Called party ID.
- Called party station type.
- Calling party business group ID.
- Calling party ID.
- Charge number.
- Charge party station type.
- Clear cause.
- Close cause.
- Collected address information.
- Collected digits.
- Disconnect cause.
- DTMF digits detected.
- Extension.
- Failure cause.
- Generic address list.
- Generic name.
- Global title address.
- Local access and transport area.
- Notification indicator.
- Original called party ID.
- Origination point code.
- Primary carrier.
- Redirecting party ID.
- Redirection information.
- Signaling Platform.
- Timer.
- Translation type.
- Traveling class mark.
- Trigger criteria type.
- User ID.
- Vertical service code.

4. SYSTEM RESPONSE

NO = The request is not allowed. May also include:
   - FEATURE NOT AVAILABLE = The ASP 0.1 feature must be purchased before attempting to display ASP 0.1 test query parameters.

PF = Printout follows. Followed by an OP:ASPTQ output message.

RL = Retry later. Valid value(s):
   - INTERNAL ERROR = An internal error was encountered and processing could not continue.

5. REFERENCES

Input Message(s):

CLR:ASPTQ
SET:ASPTQ
TST:ASPTQ

Output Message(s):

OP:ASPTQ
OP:ATMALM-A

Software Release: 5E14 - 5E15
Command Group: MAINT
Application: 5
Type: Input

1. PURPOSE

Requests the output of the virtual path(s) (VPATHs), starting from a given near end community address (CA), that are in the asynchronous transfer mode (ATM) alarm state.

An alarmed virtual path can be in the alarm indication signal (AIS) or remote defect indication (RDI) state. By choice, the output can list the alarmed virtual path(s) in terms of far end PSU CAs that this near end PSU CA has connection to; or in terms of virtual path identifier (VPI) number(s) that uniquely identify the virtual paths between this near end packet switch unit (PSU) CA to all other far end PSU CAs. There are two virtual paths, one high priority and one low priority, that connect two PSU CAs. The high priority VPI number is equal to the far end PSU CA multiplied by 2; and the low priority VPI number is one more than the high priority VPI number. NOTE: For gateway protocol handlers (PH) the only valid input message format is #3. Other formats will not yield the expected results.

2. FORMAT

[1] OP:ATMALM,PSUCA=a[,FARCA=b],d[,e];
[2] OP:ATMALM,PSU=c-0[,FARCA=b],d[,e];
[3] OP:ATMALM,PSUCA=a;

3. EXPLANATION OF MESSAGE

a = Near PSU community address of the PSU link or the virtual path(s).
b = Far PSU community address of the PSU link.

Note: This field (a non-zero value) is required for network configured as point to point. It is optional (a zero value if entered) for multipoint ATM network.

c = Switching module (SM) number.
d = Indication to list alarmed virtual path(s) either in far end PSU CA(s) or VPI number(s). Valid value(s):

CA = Community address.
VPI = Virtual path identifier.

Note: If this field is not specified, then all virtual paths in AIS and/or RDI are reported.

e = Indication to find virtual paths whose status matches this value. Valid value(s):

AIS = Alarm indication signal.
RDI = Remote defect indication.

Note: If this field is not specified, then all virtual paths in AIS and/or RDI are reported.
4. SYSTEM RESPONSE

NG = No good. The request has been denied. The message is valid but the request conflicts with current equipage or status.

PF = Printout follows. Followed by the OP:ATMALM output message.

RL = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

Output Message(s):

OP : ATMALM

MCC Display Page(s):

1187 (PSU LINKS STATUS)
OP:ATMALM-B
Software Release: 5E16(1) - 5E16(2)
Command Group: MAINT
Application: 5
Type: Input

1. PURPOSE

Requests the output of the virtual path(s) (VPATHs), starting from a given near end community address (CA), that are in the asynchronous transfer mode (ATM) alarm state.

An alarmed virtual path can be in the alarm indication signal (AIS) or remote defect indication (RDI) state. By choice, the output can list the alarmed virtual path(s) in terms of far end PSU CAs that this near end PSU CA has connection to; or in terms of virtual path identifier (VPI) number(s) that uniquely identify the virtual paths between this near end packet switch unit (PSU) CA to all other far end PSU CAs.

There are two virtual paths, one high priority and one low priority, that connect two PSU CAs. The high priority VPI number is equal to the far end PSU CA multiplied by 2; and the low priority VPI number is one more than the high priority VPI number.

NOTE: For gateway protocol handlers (PH) the only valid input message format is #3. Other formats will not yield the expected results.

2. FORMAT

[1] OP:ATMALM,PSUCA=a[,FARCA=b],d[,e];
[2] OP:ATMALM,PSU=c-0[,FARCA=b],d[,e];
[3] OP:ATMALM,PSUCA=a;

3. EXPLANATION OF MESSAGE

a = Near PSU community address of the PSU link or the virtual path(s).
b = Far PSU community address of the PSU link.

Note: This field (a non-zero value) is required for network configured as point to point. It is optional (a zero value if entered) for multipoint ATM network.

c = Switching module (SM) number.
d = Indication to list alarmed virtual path(s) either in far end PSU CA(s) or VPI number(s). Valid value(s):
   CA = Community address.
   VPI = Virtual path identifier.

e = Indication to find virtual paths whose status matches this value. Valid value(s):
   AIS = Alarm indication signal.
   RDI = Remote defect indication.
Note: If this field is not specified, then all virtual paths in AIS and/or RDI are reported.

4. SYSTEM RESPONSE

**NG** = No good. The request has been denied. The message is valid but the request conflicts with current equipage or status.

**PF** = Printout follows. Followed by the OP:ATMALM output message.

**RL** = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

Output Message(s):

*OP : ATMALM*

MCC Display Page(s):

1187.y (PSU LINKS STATUS)
where y=PSU number
**OP:ATMALM-C**

**Software Release**: 5E17(1) and later  
**Command Group**: MAINT  
**Application**: 5  
**Type**: Input

1. **PURPOSE**

Requests the output of the virtual path(s), starting from a given near end community address (CA), that are in the asynchronous transfer mode (ATM) alarm state.

An alarmed virtual path can be in the alarm indication signal (AIS) or remote defect indication (RDI) state. By choice, the output can list the alarmed virtual path(s) in terms of far end PSU CAs that this near end PSU CA has connection to, or in terms of virtual path identifier (VPI) or VPI and virtual channel identifier (VCI) number(s) that uniquely identify the virtual paths between this near end packet switch unit (PSU) CA to all other far end PSU CAs.

There can be two virtual path connections, one high priority and one low priority, that connect two PSU CAs. The high priority VPI number is equal to the far end PSU CA multiplied by 2, and the low priority VPI number is one more than the high priority VPI number.

There can be two virtual channel connections, one high priority and one low priority, that connect two PSU CAs. The high and low priority VPI numbers are provisioned and the VCI is equal to the far end PSU CA plus 64.

For internetwork connections the far subnetwork must be entered. There is however only a high priority virtual path or virtual channel connection.

2. **FORMAT**

   [1] \[ \text{OP:ATMALM,PSUCA=a[,FARSN=b][,FARCA=c],d[,e];} \]

   [2] \[ \text{OP:ATMALM,PSU=f-g[,FARSN=b][,FARCA=c],d[,e];} \]

   [3] \[ \text{OP:ATMALM,PSALNK=f-g-h[,FARSN=b],d[,e];} \]

3. **EXPLANATION OF MESSAGE**

   a  = Near PSU community address of the PSU link or the virtual path(s).

   b  = Far subnetwork number.

   c  = Far PSU community address of the PSU link.

   This field (a non-zero value) is required for network configured as point to point. It is optional (a zero value if entered) for multipoint ATM network.

   d  = Indication to list alarmed virtual path(s) either in far end PSU CA(s) or VPI number(s). Valid value(s):

      CA = Community address.
      VPI = Virtual path identifier.

   e  = Indication to find virtual paths whose status matches this value. Valid value(s):
AIS = Alarm indication signal.
RDI = Remote defect indication.
L2QUAL = L2 quality information.

If this field is not specified, then all virtual paths in AIS and/or RDI are reported.

f = Switching module (SM) number.
g = PSU number.
h = ATM link number.

4. SYSTEM RESPONSE

NG = No good. The request has been denied. The message is valid but the request conflicts with current equipage or status.

PF = Printout follows. Followed by the OP:ATMALM output message.

RL = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

Output Message(s):

OP : ATMALM

MCC Display Page(s):
1187.y,x PSU LINKS STATUS (where y=PSU number and x=SM number)
OP:ATTS

**Software Release:** 5E14 and later
**Command Group:** N/A
**Application:** 5
**Type:** Input

1. **PURPOSE**

Requests a report of the status of the specified automatic trunk test scheduler (ATTS) test schedule.

2. **FORMAT**

   OP:ATTS,SCHED=a;

3. **EXPLANATION OF MESSAGE**

   \[ a \] = The number of the ATTS test schedule whose status is to be output (1 - 20).

4. **SYSTEM RESPONSE**

   PF = Printout follows. The request has been accepted, and is followed by the OP:ATTS output message.

5. **REFERENCES**

   **Input Message(s):**
   
   DUMP:ATDTA
   DUMP:ATLOG
   DUMP:ATPRM
   OP:ATTS
   ST:ATTS
   STP:ATTS

   **Output Message(s):**
   
   DUMP:ATDTA
   DUMP:ATLOG
   DUMP:ATPRM
   OP:ATTS
   REPT:ATTS
   ST:ATTS
   STP:ATTS

   **Other Manual(s):**

   Where (X) is the release-specific version of the specified manual.

   235-100-125  System Description
   235-105-210  Routine Operations and Maintenance
235-118-251  Recent Change Procedures
235-118-25x  Recent Change Reference

RC/V View(s):

14.9 (ATTS TEST SESSION SCHEDULE DATA)
14.10 (ATTS TEST SCHEDULE PARAMETER)
OP:AUD-ERRLOG

Software Release: 5E14 and later
Command Group: AUDIT
Application: 5
Type: Input

1. PURPOSE

Requests either the generation of a detailed error report of the errors found by a previously-executed full, incremental or entity static office-dependent data (SODD) audit, a detailed summary report of errors detected by one of the forementioned audits, or just a summary of the number of errors found by one of the forementioned audits.

If a detailed error report is to be generated, a file name to where the output is to be written must be specified with the optional OUTFILE keyword. This file will then be located under the /rclog/SODD/reports directory. If a detailed summary report is to be generated, both the SUMMARY and OUTFILE keywords must be specified. The detailed summary will then be located under the /rclog/SODD/reports directory. If just a summary of the error count is to be generated, the SUMMARY keyword must be specified (without the OUTFILE keyword). This sends the output to the receive-only printer (ROP).

2. FORMAT

[1] OP:AUD=SODD,ERRLOG,([TN=a | OE="b" | RELATION='c',{AM|SM=d|CMP} | MLHG=e[,MEMB=f] | TGN=g[,MEMB=h}] [,ALL=i][,BREVITY=[j]][,EXPAND=[k]] [,OUTFILE=l | SUMMARY],OUTFILE=l,SUMMARY);

[2] OP:AUD=SODD,ERRLOG,FULL,DAY=m[,WEEK=n][,CYCLE={PREV|CUR}][,ALL=i][,BREVITY=[j]][,EXPAND=[k]] [,OUTFILE=l | SUMMARY],OUTFILE=l,SUMMARY);

[3] OP:AUD=SODD,ERRLOG,INCR,|AM|SM=o|CMP|RED|ALLPRC|DAY=p) [,CYCLE={PREV|CUR}][,ALL=i][,BREVITY=[j]][,EXPAND=[k]] [,OUTFILE=l | SUMMARY],OUTFILE=l,SUMMARY);

[4] OP:AUD=SODD,ERRLOG,BRCS,MFT=q, (AM|SM=r|CMP) > ,ALL=i][,BREVITY=[j]][,EXPAND=[k]>&#93; > [,OUTFILE=l | SUMMARY],OUTFILE=l,SUMMARY);

3. EXPLANATION OF MESSAGE

AM = Administration module (AM). The processor on which the relation, as specified in 'c' or 'q', was audited.

CMP = Communications module processor (CMP). The processor on which the relation, as specified in 'c' or 'q', was audited.

CYCLE = Audit cycle for the full audit. Valid value(s):
CUR = Current (default).
PREV = Previous.

ALL = Indicates whether all warnings will be printed. If ALL=N, then only warnings that are not specified in the "prl_to_ignore" file will be printed. This file is explained in the Routine Operations and Maintenance manual. If this keyword is not specified or is specified without a value, the default is to
print all warnings.

**BREVITY**
- Indicates whether brevity control should be used when printing the contents of the audit error log(s). If this keyword is not specified or is specified without a value, the default is to print only the first ten instances where a particular check in the SODD audit is violated followed by a statement indicating how many additional instances were in error. This keyword is ignored if specified in conjunction with the SUMMARY keyword.

**EXPAND**
- Indicates whether to expand population rule language (PRL) symbols in the error report. If this keyword is not specified or is specified without a value, the default is to expand some of the PRL symbols (not all symbols can be expanded) into their English equivalent. This keyword is ignored if specified in conjunction with the SUMMARY keyword.

**DAY**
- Indicates the day(s) within the full audit cycle on which to report or the day within the incremental audit cycle on which to report.

**WEEK**
- Indicates the week(s) within the full audit cycle on which to report. The WEEK is not a calendar week but rather a week in the full audit cycle (that is, if the cycle started on Wednesday and the following Tuesday's errors are to be printed, **WEEK=1** would be specified and not **WEEK=2**.) Various **DAY/WEEK** combinations include:
  - **DAY= [m], WEEK= [n]** = print the errors found on the specified day during the specified week of the full audit cycle.
  - **DAY= ALL, WEEK= [n]** = print the errors found on all days during the specified week of the full audit cycle.
  - **DAY= [m], WEEK= ALL** = print the errors found on the specified day during the entire full audit cycle.
  - **DAY= ALL, WEEK= ALL** = print the errors found during the entire full audit cycle.
  - **DAY= [m] (no WEEK specified)** = print the errors found on the specified day for the most recent week of the full audit cycle.
  - **DAY= ALL (no WEEK specified)** = print the errors found on all of the most recent days for the most recent week of the full audit cycle.

**RED**
- For incremental audits, redundant (RED) indicates that a report will be generated based on the last iteration of the incremental audit on the transactions in the redundant log file.

**ALLPRC**
- For incremental audits, all processors (ALLPRC) indicates that a report will be generated for all the switching modules, administration modules and communications module processors in the office.

**SUMMARY**
- If specified without the OUTFILE keyword, only the count of errors found by the specified audit will be generated and printed to the ROP. If specified with the OUTFILE keyword, a detailed summary will be generated and written to the specified file under the /rclog/SODD/reports directory.

**a**
- Telephone number that was audited.

**b**
- Office equipment type and number that was audited.

**c**
- Relation that was audited, or "ALL" if all relations on a specific processor were audited.

**d**
- Switching module that was audited. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual. The processor on which the relation, as specified in 'c', was audited.

**e**
- Multi-line hunt group that was audited.
= Member of multi-line hunt group that was audited.

g = Trunk group number that was audited.

h = Member of trunk group number that was audited.

i = Output of warnings. Valid value(s):
   N = Print only warnings that are not specified in the "prl_to_ignore" file.
   Y = Print all warnings (default).

j = Brevity control for the printing of the audit error log(s). Valid value(s):
   N = Do not use brevity control.
   Y = Use brevity control (default).

k = Expand PRL symbols into their English equivalent in the error report. Valid value(s):
   N = Do not expand the PRL symbols into English.
   Y = Expand the PRL symbols into English (default).

l = A file with this name is created under /rclog/SODD/reports and the output is stored there. If a file
   with this name already exists, it is overwritten. Double quotes "' should be used around variable 'l'
   to preserve lower-case letters.

m = Report on a specific day or days within the full audit. Valid value(s):
   MON = Monday.
   TUE = Tuesday.
   WED = Wednesday.
   THU = Thursday.
   FRI = Friday.
   SAT = Saturday.
   SUN = Sunday.
   ALL = All days.

n = A single digit number indicating the number of weeks within the full audit cycle. Valid value(s):
   ALL = All weeks.

o = Switching module that was audited. Refer to the APP:RANGES appendix in the Appendixes
   section of the Input Messages manual. Specific processor on which the incremental audit took
   place.

p = Report on a specific day within the incremental audit. The day is when the audit began execution
   and not when it finished. Valid value(s):
   MON = Monday.
   TUE = Tuesday.
   WED = Wednesday.
   THU = Thursday.
   FRI = Friday.
   SAT = Saturday.
   SUN = Sunday.
q = Name of modular feature type (MFT) or ALL.

q = Switching module that was audited. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual. The processor on which the relations associated with the MFT, as specified in 'q', were audited.

4. SYSTEM RESPONSE

PF = Printout follows. Followed by an OP:AUD-ERRLOG output message.

5. REFERENCES

Input Message(s):

EXC:AUD–SODD
SCHED:AUD–SODD

Output Message(s):

OP:AUD–ERRLOG

Input Appendix(es):

APP:RANGES

Other Manual(s):

235-105-210   Routine Operations and Maintenance
OP:AUD-SODD
Software Release: 5E14 and later
Command Group: AUDIT
Application: 5
Type: Input

1. PURPOSE
Requests that one of the following be printed: the execution status of the static office-dependent data (SODD) audits; the full SODD audit's schedule; the status of the active SODD audit(s).

2. FORMAT
OP:AUD=SODD,{EXC|SCHED|AUDIT}

3. EXPLANATION OF MESSAGE
EXC = Print the execution status of the SODD audits.
SCHED = Print the full SODD audit's schedule.
AUDIT = Print the status of the active SODD audit(s).

4. SYSTEM RESPONSE

5. REFERENCES
Input Message(s):
EXC:AUD-SODD
SCHED:AUD-SODD
SET:AUD
CLR:AUD

Output Message(s):
OP:AUD-SODD-EXC
OP:AUD-SODD-SCH
OP:AUD-STATUS

Other Manual(s):
235-105-210 Routine Operations and Maintenance
OP:AUD

Software Release: 5E14 and later
Command Group: AUDIT
Application: 5,3B
Type: Input

1. PURPOSE

Reports the status of one or more audits controlled by the system integrity monitor (SIM). The report may be requested for:

- All audit control records.
- All members associated with a specific audit.
- Selected members associated with a specific audit.

2. FORMAT

OP:AUD: {ALL|RUN|a [=b] |a=c, INS="d"};

3. EXPLANATION OF MESSAGE

ALL = Specifies all audits controlled by SIM.
RUN = Restricts the report to include only information for running audits.
a = Audit name. Administrative module (AM) audit names are listed in the APP:AUD appendix in the Appendixes section of the Input Messages manual.

If 'a' is specified without 'b', all members of the audit will be reported.

b = Member number. For a list of member numbers, refer to the APP:MEM-NUM-AUD appendix in the Appendixes section of the Input Messages manual. May be specified as a single number or a list of numbers.

c = Single member number. Refer to the APP:MEM-NUM-AUD appendix in the Appendixes section of the Input Messages manual.

d = Instance name.

4. SYSTEM RESPONSE

Refer to the APP:AUD appendix in the Appendixes section of the Input Messages manual.

5. REFERENCES

Input Message(s):

ALW:AUD
INH:AUD
STOP:AUD
STP:AUD
Output Message(s):

OP : AUD

Input Appendix(es):

APP : AUD
APP : MEM–NUM–AUD

Output Appendix(es):

APP : AUD–D

Other Manual(s):
235-600-400 Audits
OP:AUDERR

Software Release: 5E14 and later
Command Group: AUDIT
Application: 5,3B
Type: Input

1. PURPOSE

Reports the error counts of one or more audits controlled by the system integrity monitor (SIM). The report may be requested for:

- All audits controlled by SIM.
- All members of a specific audit.
- Selected members of a specific audit.
- A specific instance of a specific member of a specific audit.

2. FORMAT

OP:AUDERR, {ALL|a=[b]|a=c, INS=d};

3. EXPLANATION OF MESSAGE

a = Audit name. Central processor or administrative module audit names are listed in the APP:MEM-NUM-AUD appendix in the Appendixes section of the Input Messages manual.

If 'a' is specified without 'b', all members of the audit will be reported.

b = Member number. Refer to the APP:MEM-NUM-AUD appendix in the Appendixes section of the Input Messages manual for a list of member numbers. May be specified as a single number or a list of numbers. Refer to User Guidelines Rules of the Input Messages manual.

c = Single member number. Refer to the APP:MEM-NUM-AUD appendix in the Appendixes section of the Input Messages manual.

d = Instance name.

4. SYSTEM RESPONSE

Refer to the APP:AUD appendix in the Appendixes section of the Input Messages manual.

5. REFERENCES

Input Message(s):

AUD:CUMEM
AUD:CUSTAT
AUD:ECD
AUD:ECDOWN
AUD:FMGR
AUD:FSBLK
Output Message(s):

AUD:CUMEM
AUD:CUSTAT
AUD:ECD
AUD:ECDOWN
AUD:FMGR1
AUD:FMGR2
AUD:FMGR3
AUD:FMGR4
AUD:FMGR5
AUD:FMGR6
AUD:FMGR7
AUD:FMGR8
AUD:FMGR9
AUD:FSBLK
AUD:FSCMPT
AUD:FSLINK
AUD:MMGR
AUD:MSGBUF
AUD:PMS
AUD:PROAD
OP:AUD
OP:AUDERR

Input Appendix(es):

APP:AUD
APP:MEM–NUM–AUD

Other Manual(s):
235-600-400  Audits
OP:AVAILLOG

Software Release: 5E14 and later
Command Group: ODD
Application: 5
Type: Input

1. PURPOSE

Reports how much disk space (in bytes) is left for logging recent changes and customer-originated recent changes. Both the amount of space allocated and the amount of space available are reported.

2. FORMAT

OP:AVAILLOG;

3. EXPLANATION OF MESSAGE

No variables.

4. SYSTEM RESPONSE

NG = No good. The input message was not valid.
PF = Printout follows. Followed by an OP:AVAILLOG output message.

5. REFERENCES

Output Message(s):

OP:AVAILLOG
40. OP:B
1. PURPOSE
Requests the status of the blocked call indication (BCI) reporting feature.

2. FORMAT

OP:BCI;

3. EXPLANATION OF MESSAGE
No variables. For further information, refer to the Administration and Engineering Guidelines manual.

4. SYSTEM RESPONSE

PF = Printout follows. The request was accepted. The OP:BCI output message will follow.

5. REFERENCES

Input Message(s):

ALW:BCI
STP:BCI

Output Message(s):

OP:BCI
REPT:BCI

Other Manual(s):
235-070-100 Administration and Engineering Guidelines
OP:BICC

Software Release: 5E15 and later
Command Group: TRKLN
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Requests the output of bearer independant call control (BICC) data matching the following specified characteristics:
A the entire office
B a specific OPC and DPC combination,
C a OPC, DPC and a specific, range or all CICs, with an optional SM parameter described below,
D an BICC group, with an optional SM parameter described below, or
E an BICC group and a specific or range of BICC group members, with an optional SM parameter described below.
F an BICC trunk group, with an optional SM parameter described below, or
G an BICC trunk group and a specific or range of trunk group members, with an optional SM parameter described below.

Output formats [1] will include the BICC group numbers, OPC, and DPC, Signalling platform indicator, Base CIC and Total number of CIC blocks assigned to the Group. Output formats [2] through [7] will include the BICC group number(s), Member Range, CIC block SM number and the First CIC for the CIC block.

Only one OP:BICC request may be processed by the system at any moment; additional requests will be denied.

WARNING: Requesting this message may cause an enormous amount of data to be printed on the receive-only printer (ROP). The use of any format could cause a degradation in switch service depending upon the number and size of BICC groups.

The input message, STP:BICC, can be used to halt the printing of this input message should system operation be impacted by this message.

2. FORMAT

[1] OP:BICC,OFFICE;
[2] OP:BICC,OPC=a,DPC=b;
[3] OP:BICC,OPC=a,DPC=b,CIC{=c[&&d]|,ALL}[,SM=k];
[4] OP:BICC,BG=e[,SM=k];
[5] OP:BICC,BGMN=e-f[&&g][,SM=k];
[6] OP:BICC,TG=h[,SM=k];
[7] OP:BICC,TKGMN=h-i[&&j][,SM=k];

3. EXPLANATION OF MESSAGE

ALL = Search for BICC group members using a range of all possible CICs.
a = Origination point code (OPC) consisting of a nine digit number. Refer to the APP:POINT-CODE appendix.
b = Destination point code (DPC) consisting of a nine digit number. Refer to the APP:POINT-CODE appendix.
c = BICC Call Instance code (CIC) or the lower limit of a range of CICs. BICC CICs can range from 0 - 4294967294.
d = The upper limit of a range of BICC CICs.
e = BICC group (BG) number.
f = BICC group member number (BGMN) or the lower limit of a range of BICC group member numbers.
g = The upper limit of a range of BICC group member numbers.
h = BICC trunk group (TG) number.
i = BICC trunk group member number (TKGMN) or the lower limit of a range of BICC trunk group member numbers.
j = The upper limit of a range of BICC trunk group member numbers.
k = SM number. Search for trunks is restricted to specified SM. This option is allowed only for OPC/DPC/CIC, BG, BGMN, TG or TKGMN requests.

4. SYSTEM RESPONSE

PF = Printout follows. The request has been accepted and an OP:BICC output message will follow.
RL = Retry later. Valid value(s):
   - FAILED TO CREATE PROCESS = The process that would service the request could not be created, or did not receive the request, probably due to system load.
   - REQUEST ALREADY IN PROGRESS = An OP:BICC request is already running. Only one request is allowed to run at a time.
   - TOO MANY PROCESSES ACTIVE = A process to service the request cannot be created because the maximum number of active maintenance processes has been reached.

5. REFERENCES

Input Message(s):
   STP:BICC

Output Message(s):
   OP:BICC
   STP:BICC
Input Appendix(es):

APP:POINT-CODE
OP:BICCBLK
Software Release: 5E16(1) and later
Command Group: TRKLN
Application: 5
Type: Input

1. PURPOSE
Requests the output of bearer-independent call control (BICC) call instance code (CIC) block for the following information:
- Number of idle CICs,
- Number of busy CICs,
- Number of in-service CICs,
- Number of out-of-service (OOS) circuit administration (CADN),
- Number of blocked CICs,
- Number of ressetting CICs,
- Number of CICs in the AUDIT state.

2. FORMAT
OP:BICCBLK,BGMN=a-b&&c;

3. EXPLANATION OF MESSAGE
a = SS7 BICC group number. Refer to APP:RANGES appendix in the Appendixes section of the Input Messages manual.
b = The lower limit of a range of SS7 BICC group member numbers. The member range must represent exactly one BICC CIC block (that is, BGMN=7000-0&&127). The range of a CIC BICC block is 128 (i.e. 0&&127, 128&&255, etc.).
c = The upper limit of a range of SS7 BICC group member numbers. The member range must represent exactly one BICC CIC block (that is, BGMN=7000-0&&127). The range of a CIC BICC block is 128 (i.e. 0&&127, 128&&255, etc.).

4. SYSTEM RESPONSE
PF = Printout follows. The request has been accepted and an OP:SS7 output message will follow.
NG = No good. May also include:
  - BAD CIC INPUT = The craft entered a member range that is incorrect.
  - STARTING CIC NOT AT BEGINNING OF BLOCK = The starting CIC is not at the beginning of a BICC CIC block.
  - RANGE OF CICS INCORRECT = The ranges of CICs is not an exact BICC CIC block.

5. REFERENCES
Output Message(s):
OP:BICCBLK
Input Appendix(es):

APP:RANGES
APP:POINT-CODE

Other Manual(s):

235-200-115  CNI Common Channel Signaling
235-200-116  Signaling Gateway Common Channel Signaling
OP:BICCBMOVE

Software Release: 5E16(1) and later
Command Group: CCS
Application: 5
Type: Input

1. PURPOSE

Requests the status of a Static Call Instance Code Allocation process.

2. FORMAT

OP:BICCBMOVE;

3. EXPLANATION OF MESSAGE

No variables.

4. SYSTEM RESPONSE

RL = Retry later. The request is not currently running.
PF = Printout follows. The request has been accepted. Followed by the OP:BICCBMOVE output message.

5. REFERENCES

Input Message(s):

EXC:BICCBMOVE
STP:BICCBMOVE

Output Message(s):

EXC:BICCBMOVE
OP:BICCBMOVE
OP:BICCCQ

Software Release: 5E15 and later
Command Group: CCS
Application: 5
Type: Input

1. PURPOSE

Determines whether the common channel signaling (CCS) automatic bearer independent call control (BICC) call instance code (CIC) query for CCS System 7 (CCS7) trunks is inhibited or allowed for the entire office, and the BICC CIC query start time.

2. FORMAT

OP:BICCCQ;

3. EXPLANATION OF MESSAGE

No variables.

4. SYSTEM RESPONSE

PF = Printout Follows. The request has been accepted and will be followed by an OP:BICCCQ output message.

5. REFERENCES

Other Manual(s):
235-200-115 CNI Common Channel Signaling
235-200-116 Signaling Gateway Common Channel Signaling
OP:BKUP

Software Release: 5E15 and later
Command Group: FHADM
Application: 5,3B
Type: Input

1. PURPOSE

Requests the automated system backup schedule and/or content of backup option files to be displayed.

Format 1 is used to display the day (week or month), time of day, and name of the backup option file for each scheduled automated system backup.

Format 2 is used to display the day (week or month), time of day, name of the backup option file, and contents of the backup option file for each scheduled automated system backup.

Format 3 is used to display the content of a specified backup option file residing in the /no5text/bkup/autobkup directory.

2. FORMAT

[1] OP:BKUP;

3. EXPLANATION OF MESSAGE

a = Backup option file name. This file must reside in the /no5text/bkup/autobkup directory. This variable must not be specified as a full or relative pathname.

4. SYSTEM RESPONSE

PF = Printout follows. Followed by the OP:BKUP output message.

5. REFERENCES

Input Message(s):

ALM:AUTOBKUP
CLR:BKUP
INH:AUTOBKUP
SCHED:BKUP
SET:BKUP
STP:AUTOBKUP

Output Message(s):

OP:BKUP

Other Manual(s):
OP: BKUPSTAT

**Software Release:** 5E14 and later  
**Command Group:** ODD  
**Application:** 5  
**Type:** Input

1. PURPOSE

Outputs all the ODD backup scheduled requests set by the previous BKUP:ODD messages.

2. FORMAT

OP: BKUPSTAT;

3. EXPLANATION OF MESSAGE

No variables.

4. SYSTEM RESPONSE

NG = No good. The input request is not valid.  
   - NO SCHEDULE REQUEST = The input request is not valid.

PF = Printout follows. The request was accepted and the OP: BKUPSTAT output message will follow.

5. REFERENCES

Input Message(s):

- ABT: ODDBKUP  
- BKUP: ODD  
- CLR: ODDBKUP  
- STP: ODDEVOL

Output Message(s):

- OP: BKUPSTAT
OP:BRCS-STATUS

Software Release: 5E14 and later
Command Group: BRCS
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

To generate the information about the business and residential customer services (BRCS) feature audit progress.

WARNING: It is absolutely necessary to wait until all OP:BRCS-STATUS requests, currently being in progress, are completed, before retrofit can be started.

2. FORMAT

OP:BRCS:STATUS;

3. EXPLANATION OF MESSAGE

No variables.

4. SYSTEM RESPONSE

PF = Printout follows.
NG = No good. The request was denied.

5. REFERENCES

Input Message(s):

   EXC:BRCS
   STP:BRCS

Output Message(s):

   EXC:BRCS
   OP:BRCS-STATUS

Other Manual(s):

235-118-251 Recent Change Procedures
235-190-103 BRCS Feature Description
OP:BREVC

Software Release: 5E14 and later
Command Group: MAINT
Application: 5
Type: Input

1. PURPOSE

Requests the output of the current output message brevity control (BREVC) status of one or all message class(es) (MSGCLS).

2. FORMAT

OP:BREVC[,MSGCLS=a];

3. EXPLANATION OF MESSAGE

a = Valid message class.

Note: If no MSGCLS is specified, all MSGCLS for which the current status is "INH" will be printed.

4. SYSTEM RESPONSE

PF = Printout follows. An OP:BREVC output message follows in response to the request.

5. REFERENCES

Input Message(s):

ALW:BREVC
INH:BREVC
OP:LPS
OP:SYSSTAT

Output Message(s):

OP:BREVC
OP:LPS
41. OP:C
OP:C7NET

Software Release: 5E14 and later
Command Group: CCS
Application: 5,CNI
Type: Input

1. PURPOSE

Requests a formatted display of the routing data in the cluster, member, and load share tables of the common network and for the signaling connection control part (SCCP) subsystem bit map. This is very useful in testing and monitoring the common channel signaling (CCS) traffic management code that updates these tables.

This input message provides a means for printing a formatted display of the routing data in the cluster, member and load share tables, and the timer status for the message transfer part (MTP) signaling point restart procedure.

2. FORMAT

[1] OP:C7NET:PCLU=n-b-o[,DEST=d];
[2] OP:C7NET:e[,DEST=d];
[3] OP:C7NET:PLS=g[,DEST=d];
[4] OP:C7NET:PREG=i[,DEST=d];
[5] OP:C7NET:PMEM=n-b-o-p[,DEST=d];
[6] OP:C7NET:STATES=n-b-o-p[,DEST=d];
[7] OP:C7NET:SSINFO=q[,DEST=d];
[8] OP:C7NET:PRN=n[,DEST=d];
[9] OP:C7NET:PIDX=n-o-p[,DEST=d];
[10] OP:C7NET:r=s[,DEST=d];
[12] OP:C7NET:PFL=a-f[,DEST=d];
[13] OP:C7NET:PFRNG=a-h-j[,DEST=d];

3. EXPLANATION OF MESSAGE

Note: Refer to the Acronym section of the Input Messages manual for the full expansion of acronyms shown in the format.

PCLU = This message prints data about a cluster. If the cluster routing type is populated (POPCLU), then any exceptional or static members are also printed.

PFRNG = Print a range of integers, each representing marked free elements for the particular table.

PIDX = Print the indexing information in the nonlocal paging tables for a particular nonlocal point code.
PIDXMEM = Print the member level routing data indicated by index.
PLS = Print link set information about the ring node addresses (RNAs) that are actively being used for routing per link set, all equipped link sets and the current link set relations.
PMEM = Given the network identifier, cluster and member number, will print member data.
PREG = Print all cluster level data and any abnormal member level data in this region.
PRN = Print the cluster and member routing data for a particular network identifier.
SSINFO = Print data about the given local subsystem.
STATES = This option will give the status of subsystems for a given point code.

a = Table name (either pa=>cNpage_access, mp=>cNmempages or mem=>cNn1_mem).
b = Valid value(s):
Region
Cluster
Note: The region value is optional and will not be used if the ANSI® point code format is being used.

c = The cluster when the ANSI® point code format is being used.
d = For all formats the DEST parameter is optional. When using this parameter the printing destination (variable 'd') must be supplied. The default is the receive-only printer (ROP).
e = Valid value(s):
ABNORMAL = This option will print the status of common channel signaling system 7 (CCS7) signaling routes that have members that are unavailable, restricted, congested, or subsystems that are prohibited.
DEBUGOFF = This option turns off the SCCP debug flag.
DEBUGON = This option turns on the SCCP debug flag.
Caution: This input message may clutter the ROP with messages. Use under the direction of your customer support group.

f = Length of elements.
g = Linkset.
h = Starting index.
i = Region.

j = Ending index.

k = Region of cluster number.

Note: The region value is optional and will not be used if the ANSI® point code format is being used.

l = The cluster or member. If the ANSI® point code format is being used the cluster value must be supplied here, otherwise the member value must be here.

m = This will be the member value only when the ANSI® standard point code format is being used.

n = The network identifier.

o = Valid value(s):
   Member
   Cluster
   Note: The member value is optional and will be used here if the ANSI® point code format is being used.

p = The member when the ANSI® point code format is not being used.

q = Subsystem number.

r = Valid value(s):
   PIDXNM = Print the nonlocal routing data indicated by index.
   PIDXPA = Print the entry in the cNpage_access table indicated by index.

s = Index number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

t = Index number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

NG = No good. The request could not be completed. May also include:
   - INVALID KEYWORD FOR C7NET
   - INVALID LINKSET NUMBER
   - INVALID SUBSYSTEM NUMBER
   - MISSING THE MEMBER FOR C7NET
   - MISSING THE SUBSYSTEM NUMBER FOR C7NET
   - NETWORK IDENTIFIER OUT OF RANGE
   - NO LINKSET NUMBER SUPPLIED TO PLS REQUEST
   - NON NUMERIC CLUSTER
   - NON NUMERIC LINKSET NUMBER
   - NON NUMERIC MEMBER
   - NON NUMERIC NETWORK IDENTIFIER FOR C7NET
- NON NUMERIC PRINTING DESTINATION
- NON NUMERIC SUBSYSTEM NUMBER
- OUT OF RANGE CLUSTER
- OUT OF RANGE MEMBER
- UNEXPECTED INPUT TO C7NET

\textbf{PF} = Printout follows. Followed by the OP:C7NET output message.

5. REFERENCES

Output Message(s):

\textit{OP:C7NET}

Input Appendix(es):

\textit{APP:RANGES}

Other Manual(s):

235-190-120 \textit{Common Channel Signaling Service Features}
OP:CALLMON

Software Release: 5E14 and later
Command Group: SYSRCVY
Application: 5
Type: Input

1. PURPOSE
Requests that the OP:CALLMON output message be generated.

2. FORMAT
OP:CALLMON;

3. EXPLANATION OF MESSAGE
No variables.

4. SYSTEM RESPONSE
PF = Printout follows. Followed by the OP:CALLMON output message.

5. REFERENCES
Input Message(s):
   ALW:CALLMON
   CLR:CALLMON
   INH:CALLMON
   RTR:CALLMON
   SET:CALLMON

Output Message(s):
   OP:CALLMON
   REPT:CALLMON-CMR
   REPT:CALLMON-VTC
1. PURPOSE

Requests a list of the trunks, lines, data links, and Operator Services Position System Ports (OSPSPORTs) that are currently camped on due to a manual request to remove or restore that trunk, line, data link, or OSPSPORT (RMV:TRK, RST:TRK, RMV:LINE, RST:LINE, RMV:DATALINK, RST:DATALINK, RMV:OSPSPORT, RST:OSPSPORT). Trunks, lines, data links, and OSPSPORTs which are camped on for other reasons (such as circuit diagnostics, etc.) will not be identified by this request.

The STP:CAMPON input message can be used to stop an in-progress campon.

2. FORMAT

OP:CAMPON;

3. EXPLANATION OF MESSAGE

No variables.

4. SYSTEM RESPONSE

PF = Printout follows. The request has been accepted. Output message OP:CAMPON list will follow.

RL = Retry later. The request has been denied, probably due to system load.

5. REFERENCES

Input Message(s):

RMV:DATALINK
RMV:LINE
RMV:OSPSPORT
RMV:TRK
RST:DATALINK
RST:LINE
RST:OSPSPORT
RST:TRK
STP:CAMPON

Output Message(s):

OP:CAMPON
REPT:CAMPON
STP:CAMPON
OP:CAMPON-B

Software Release: 5E16(1) and later
Command Group: TRKLN
Application: 5
Type: Input

1. PURPOSE

Requests a list of the trunks, lines, data links, and Operator Services Position System Ports (OSPSPORTs) that are currently camped on due to a manual request to remove or restore that trunk, line, data link, or OSPSPORT (RMV:TRK, RST:TRK, RMV:LINE, RST:LINE, RMV:DATALINK, RST:DATALINK, RMV:OSPSPORT, RST:OSPSPORT). Trunks, lines, data links, and OSPSPORTs which are camped on for other reasons (such as circuit diagnostics, and so forth) will not be identified by this request.

The STP:CAMPON input message can be used to stop an in-progress campon.

2. FORMAT

OP:CAMPON;

3. EXPLANATION OF MESSAGE

No variables.

4. SYSTEM RESPONSE

PF = Printout follows. The request has been accepted. Output message OP:CAMPON list will follow.
RL = Retry later. The request has been denied, probably due to system load.

5. REFERENCES

Input Message(s):

RMV:DATALINK
RMV:LINE
RMV:OSPSPORT
RMV:TRK
RST:DATALINK
RST:LINE
RST:OSPSPORT
RST:TRK
STP:CAMPON

Output Message(s):

OP:CAMPON
REPT:CAMPON
STP:CAMPON
OP:CCS-ACDPC

Software Release: 5E14 and later
Command Group: CCS
Application: 5
Type: Input

1. PURPOSE

Requests the linkset or combined linkset servicing each accessible destination point code (DPC) for the common channel signaling (CCS) global switching module (GSM).

Note: This input message is applicable only for packet switching unit (PSU) platform CCS7.

2. FORMAT

OP:CCS,ACDPC[,SM=a];

3. EXPLANATION OF MESSAGE

a = GSM number. CCS GSM number from which the data is desired. If no SM number is specified and only one CCS GSM exists in the office, output will be produced for that GSM. If multiple CCS GSMs exist in the office, the SM must be specified.

4. SYSTEM RESPONSE

NG = No good. May also include:
- GSM MISMATCH = The specified SM is not a GSM or the SM does not exist.
- NO GLOBAL SM = No GSM is provisioned in the office.
- NEED GSM NUMBER = GSM was not specified in the input message, and the office has more than one GSM provisioned.
- SYSTEM BUSY = Resources unavailable to process request.

PF = Printout follows. Followed by the OP:CCS-ACDPC output message.

RL = Retry later. May also include:
- SM NOT AVAILABLE = Command cannot be processed because the GSM is not accessible.

5. REFERENCES

Output Message(s):

OP:CCS-ACDPC

Other Manual(s):
235-190-120   Common Channel Signaling Service Features
OP:CCS-ACTLK

Software Release: 5E14 and later
Command Group: CCS
Application: 5
Type: Input

1. PURPOSE

Requests the number of currently active (in service) member(s) in each signaling linkset on a common channel signaling (CCS) global switching module (GSM).

Note: This input message is applicable only for packet switching unit (PSU) platform CCS7.

2. FORMAT

OP:CCS,ACTLK[,SM=a];

3. EXPLANATION OF MESSAGE

a = Global switching module (GSM) number. CCS GSM number from which the data is desired. If no SM number is specified and only one CCS GSM exists in the office, output will be produced for that GSM. If multiple CCS GSMS exist in the office, the SM must be specified.

4. SYSTEM RESPONSE

NG = No good. May also include:
- GSM MISMATCH = The specified SM is not a GSM or the SM does not exist.
- NO GLOBAL SM = No GSM is provisioned in the office.
- NEED GSM NUMBER = GSM was not specified in the input message, and the office has more than one GSM provisioned.

PF = Printout follows. Followed by the OP:CCS-ACTLK output message.

RL = Retry later. May also include:
- SM NOT AVAILABLE = Command cannot be processed because the GSM is not accessible.

5. REFERENCES

Output Message(s):

OP:CCS-ACTLK

Other Manual(s):
235-190-120 Common Channel Signaling Service Features

MCC Display Page(s):
1532 (CCS LINK SET SUMMARY)
1533 (CCS LINK SET MEMBER)
OP:CCS-CLS
Software Release: 5E14 and later
Command Group: CCS
Application: 5
Type: Input

1. PURPOSE
Requests status information of all members of one or more combined link sets (CLSs) on a given common channel signaling (CCS) global switching module (GSM).

Note: This input message is applicable only for PSU platform CCS7.

2. FORMAT

OP:CCS,CLS[,SET=a[&b]][,SM=c];

3. EXPLANATION OF MESSAGE

   a = Combined link set (CLS) number or lower limit of a range of CLS numbers. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual. When a range is specified, only equipped numbers in the range will be processed. Range of numbers need not start or end with equipped CLS numbers. The default is all combined link sets.

   b = Upper limit of a range of CLS numbers.

   c = Global switching module (GSM) number. CCS GSM number from which the data is desired. If no SM number is specified and only one CCS GSM exists in the office, output will be produced for that GSM. If multiple CCS GSMs exist in the office, the SM must be specified.

4. SYSTEM RESPONSE

   NG = No good. May also include:
       - GSM MISMATCH = The specified SM is not a GSM or the SM does not exist.
       - NO GLOBAL SM = No GSM is provisioned in the office.
       - NEED GSM NUMBER = GSM was not specified in the input message, and the office has more than one GSM provisioned.

   PF = Printout follows. An OP:CCS-CLS output message follows in response to the request

   RL = Retry later. May also include:
       - SM NOT AVAILABLE = Command cannot be processed because the specified GSM is not accessible.

5. REFERENCES

Output Message(s):
Input Appendix(es):
APP : RANGES

Other Manual(s):
235-190-120 Common Channel Signaling Service Features

MCC Display Page(s):
1532 (CCS LINK SET SUMMARY)
1533 (CCS LINK SET MEMBER)
OP:CCS-DPC
Software Release: 5E14 and later
Command Group: CCS
Application: 5
Type: Input

1. PURPOSE

Requests status information for one or more destination point codes (DPC) associated with a given common channel signaling (CCS) global switching module (GSM).

Note: This input message is applicable only for packet switching unit (PSU) platform CCS7.

2. FORMAT

OP:CCS,DPC[,DPCID=a[&b]][,STATUS=c][,SM=d];

3. EXPLANATION OF MESSAGE

a = DPC or lower limit of a range of DPCs. When a range is specified, only equipped numbers in the range will be processed. If the DPC is not specified, a report will be generated for all DPCs.

Note: DPC number must be entered as a 9 digit number. Refer to the APP:POINT-CODE appendix in the Appendixes section of the Input Messages manual for interpretation.

b = Upper limit of a range of DPCs.

c = Status. Valid value(s):
ACC = Display only accessible DPCs.
INACC = Display only inaccessible DPCs.

If the status is not specified, both accessible and inaccessible DPCs will be displayed.

d = GSM number. CCS global SM number from which the data is desired. If no SM number is specified and only one CCS GSM exists in the office, output will be produced for that GSM. If multiple CCS GSMS exist in the office, the SM must be specified.

4. SYSTEM RESPONSE

NG = No good. NG acknowledgements are used when the syntax of a message is valid, but the message has been denied. Additional information is printed out to explain why the message was denied. May also include:
- NO GLOBAL SM = No GSM is provisioned in the office.
- GSM MISMATCH = The specified SM is not a GSM or the SM does not exist.
- NO DPCS IN THE REQ RANGE = No DPCs in the requested range.
- NEED GSM NUMBER = SM was not specified in the input message, and the office has more than one GSM provisioned.
- SYSTEM BUSY = Resources unavailable to process request.
= Retry later. May also include:
- DATA BEING UPDATED = The input message cannot be processed because the relations that contain the status of DPCs are being updated either by traffic diversion terminal process or by audits.
- MSG NOT SENT TO CLIENT PROC. = The input message cannot be processed because the signaling traffic route and management (STRM) system process failed to create the terminal process.
- SM NOT AVAILABLE = Command cannot be processed because the specified GSM is not accessible.

= Printout follows. An OP:CCS-DPC output message follows in response to the request.

5. REFERENCES

Output Message(s):

OP:CCS-DPC

Input Appendix(es):

APP:POINT-CODE

Other Manual(s):
235-190-120 Common Channel Signaling Service Features

MCC Display Page(s):

1532 (CCS LINK SET SUMMARY)
1533 (CCS LINK SET MEMBER)
OP:CCS-DPCLS

Software Release: 5E14 and later
Command Group: CCS
Application: 5
Type: Input

1. PURPOSE

Requests a report of the destination point codes (DPCs) currently served by a specified SS7 linkset or combined linkset on a common channel signaling (CCS) global switching module (GSM).

Note: This input message is applicable only for PSU platform CCS7.

2. FORMAT

OP:CCS,DPCLS,SET=a[,SM=b];

3. EXPLANATION OF MESSAGE

a = Linkset or combined linkset (CLS) number for which served DPCs are to be displayed. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual. The linkset or CLS number must be specified. There is no default to provide data for all link sets in the office.

b = Global switching module (GSM) number. Common channel signaling (CCS) GSM number from which the data is desired. If no SM number is specified and only one CCS GSM exists in the office, output will be produced for that GSM. If multiple CCS GSMS exist in the office, the SM must be specified.

4. SYSTEM RESPONSE

NG = No good. NG acknowledgements are used when the syntax of a message is valid, but the message has been denied. Additional information is printed out to explain why the message was denied. May also include:
- NO GLOBAL SM = No GSM is provisioned in the office.
- GSM MISMATCH = The specified SM is not a GSM or the SM does not exist.
- NEED GSM NUMBER = GSM was not specified in the input message, and the office has more than one GSM provisioned.
- SYSTEM BUSY = Resources unavailable to process request.

RL = Retry later. May also include:
- DATA BEING UPDATED = The input message cannot be processed because the relations that contain the status of DPCs are being updated either by traffic diversion terminal process or by audits.
- MSG NOT SENT TO CLIENT PROC. = The input message cannot be processed because the signaling traffic route and management (STRM) system process failed to create the terminal process.
- SM DATA CURRENTLY NOT AVAILABLE = The input message cannot be processed because the requested data is currently not available for processing.
- SM NOT AVAILABLE = Command cannot be processed because the specified GSM is not
accessible.

PF = Printout follows. Followed by the OP:CCS-DPCLS output message.

5. REFERENCES

Output Message(s):

OP:CCS-DPCLS

Input Appendix(es):

APP:RANGES

Other Manual(s):
235-190-120  Common Channel Signaling Service Features

MCC Display Page(s):

1532 (CCS LINK SET SUMMARY)
1533 (CCS LINK SET MEMBER)
OP:CCS-GSM

Software Release: 5E14 and later
Command Group: CCS
Application: 5
Type: Input

1. PURPOSE

Requests Common Channel Signaling Link (CCSLK) and internal CCS Message Transport (CMT) summary status on one/more Global Switching Modules (GSMs).

2. FORMAT

OP:CCS,GSM[,SM=a];

3. EXPLANATION OF MESSAGE

a = GSM number. Data for a single GSM may be requested, or the default is all GSMs in the office. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

PF = The request has been accepted. Followed by the OP:CCS,GSM output message.

RL - SM NOT AVAILABLE = The SM is not available, due to initialization or isolation. The craft should retry later.

NG - GSM MISMATCH = The specified SM is not a GSM, or the SM is not equipped in the office.

NG - NO GLOBAL SM IN OFFICE = No GSM is provisioned in the office.

5. REFERENCES

Output Message(s):

OP:CCS-GSM

Input Appendix(es):

APP:RANGES

Other Manual(s):

235-200-116  5ESS Switch Signaling Gateway Common Channel Signaling
OP:CCS-LSCLS

Software Release: 5E14 and later
Command Group: CCS
Application: 5
Type: Input

1. PURPOSE
Generates the report of the combined link set of which a given link set is a member.

Note: This input message is applicable only for packet switching unit (PSU) platform CCS7.

2. FORMAT
OP:CCS,LSCLS[,LS=a[&b]][,SM=c];

3. EXPLANATION OF MESSAGE

a = Link set (LS) number or lower limit of a range of LS numbers. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual. When a range is specified, only equipped numbers in the range will be processed. Range of numbers need not start or end with equipped LS numbers. The default is all of the link sets.

b = Upper limit of a range of equipped LS numbers. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

c = Global switching module (GSM) number. CCS GSM number from which the data is desired. If no SM number is specified and only one CCS GSM exists in the office, output will be produced for that GSM. If multiple CCS GSMs exist in the office, the SM must be specified.

4. SYSTEM RESPONSE

NG = No good. May also include:
   - GSM MISMATCH = The specified SM is not a GSM or the SM does not exist.
   - NO GLOBAL SM = No GSM is provided in the office.
   - NEED GSM NUMBER = GSM was not specified in the input message, and the office has more than one GSM provisioned.

PF = Printout follows. Followed by the OP:CCS-LSCLS output message.

RL = Retry later. May also include:
   - SM NOT AVAILABLE = Command cannot be processed because the specified GSM is not accessible.

5. REFERENCES
Output Message(s):
OP:CCS-MON

Software Release: 5E16(1) and later
Command Group: CCS
Application: 5
Type: Input

1. PURPOSE

Requests the monitoring action to be turned on, turned off, or the status of links and/or members and/or Flow Control Management (FCM) and/or Traffic Flow Management (TFM) for specified monitoring masks (or a combination thereof).

2. FORMAT

[1] OP:CCS,MON,REQTYPE={ON|OFF|STATUS}[,GSM=a] [,LS=b] [,MEMBER=c] [,MASK=d];

3. EXPLANATION OF MESSAGE

FCM = Monitoring issued for FCM.
TFM = Monitoring issued for TFM.
a = Specific common channel signaling (CCS) global switching module (GSM) number. If this parameter is not specified, then request is applied to all GSM(s), all linksets and all members on the GSM(s).
b = Report for specified signaling linkset. If this parameter is not specified, then request is applied to all linkset(s) and all members of these linksets. The parameter MEMBER will be ignored in this case.
c = Link member number. If this parameter is not specified, then request is applied to all link members of the given linkset. Refer to the APP:RANGES appendix.
d = Event mask. A default value of h'c0554, will be used if no value is specified with the request. Event masks for more specific needs may be formed by "OR-ing" values. Valid value(s):
  h'00004 = CCS7 link failure events.
  h'00010 = CCS7 Link restoration events.
  h'00040 = CCS7 network messages(except TFx).
  h'00100 = CCS7 TFx events.
  h'00400 = Manual out-of-service events.
  h'40000 = Changeover events
  h'80000 = Changeback events

Note: If brevity control is on, some of the reports might be lost. Brevity control can be inhibited to report all events on the ROP.

4. SYSTEM RESPONSE

NG = No good. May also include:
- INVALID/NONPROVISIONED LINKSET = This linkset not provisioned on the specified GSM.
- INVALID/NONPROVISIONED MEMBER = This member not provisioned in the specified LS.
- INVALID MASK REQUESTED = Refer to APP:PSU-SIG-MON appendix in the Appendixes section of the Output Messages manual for the list of valid masks for monitoring purposes.
- SM NOT EQUIPPED = The specified GSM is not equipped.

OK = The input message has been accepted. May also include:
- REQUEST ACCEPTED = The request has been accepted.

PF = Printout follows. The request has been accepted and an REPT:CCS-MON output message will follow.

RL = Retry later. May also include:
- SM NOT AVAILABLE = The specified GSM is not accessible.

5. REFERENCES

Output Message(s):

OP:CCS-MON
REPT:CCS-MON

Input Appendix(es):

APP:RANGES

Other Manual(s):
235-200-116   Signaling Gateway Common Channel Signaling
OP:CCS-OPC

**Software Release:** 5E15 and later  
**Command Group:** CCS  
**Application:** 5  
**Type:** Input

1. **PURPOSE**

Requests information about originating point codes that are provisioned:
- in the office.
- only as primary point codes (PC).
- with a specific PC.
- in the office for common network interface (CNI), with an optional PRIMARY parameter described below.
- in the office for a specific global switching module (GSM), with an optional PRIMARY parameter described below.
- in the office for all GSMs, with an optional PRIMARY parameter described below.

2. **FORMAT**

\[
\text{OP:CCS,OPC,} [\text{CNI}|\text{GSM}={\text{b} | \text{ALL}}]|\text{PC}=a\];
\]

3. **EXPLANATION OF MESSAGE**

**PRIMARY**
- Print only the primary point codes provisioned in the office.

**a**
- Specific point code (ANSI or AT&T format). Refer to the APP:POINT-CODE appendix in the Appendixes section of the Output Messages manual for interpretation.

**b**
- Common channel signaling (CCS) global switching module (GSM) number or ALL to print all GSMs provisioned in the office.

4. **SYSTEM RESPONSE**

**PF**
- Printout follows. The request has been accepted and an OP:CCS-OPC output message will follow.

**NG**
- No good. The syntax of a message is valid, but the message has been denied. May also include:
  - INVALID GSM SPECIFIED = Invalid GSM number specified by the craft.
  - INVALID PC SPECIFIED = Invalid point code specified by the craft.
  - NO CNI IN THE OFFICE = No CNI signaling platform in the office.
  - NO GSM IN THE OFFICE = No GSM is provisioned in the office.
  - NO SS7 SIGNALING AVAILABLE = No SS7 signaling is available in the office.

5. **REFERENCES**

Output Message(s):

OP:CCS-OPC
Other Manual(s):

Common Channel Signaling Service Features
OP:CCS-ROUTE

Software Release: 5E15 and later
Command Group: CCS
Application: 5
Type: Input

1. PURPOSE

Requests the routing status for:

- one network, a range of networks, or ALL networks be reported based on the network route set. No ‘SM=’ field on the command line implies request for ALL GSMs.

- one cluster, a range of clusters, or ALL clusters be reported based on the cluster route set. No ‘SM=’ field on the command line implies request for ALL GSMs.

- one destination point code (DPC), a range of DPCs, or ALL DPCs be reported based on the member route set. No ‘SM=’ field on the command line implies request for ALL GSMs.

- one destination point code. If a member, cluster, or network route set is provisioned it's information shall be reported. If no member, cluster, or network route set is provisioned an error condition shall be reported.

- those route sets with restricted, prohibited, inaccessible and/or congested routes be reported. No ‘SM=’ field on the command line implies request for ALL GSMs.

- reports ALL networks, ALL clusters, ALL DPCs. No ‘SM=’ field on the command line implies request for ALL GSMs.

If no member, cluster, or network route set is provisioned an error condition shall be reported.

2. FORMAT

[1] OP:CCS,ROUTE,NETWORK,[NETID=a[&b]][,SM=h];
[2] OP:CCS,ROUTE,CLUSTER,[CLUID=c[&d]][,XLIST]{,SM=h};
[3] OP:CCS,ROUTE,DPC,[DPCVAL=e[&f]]{,SM=h};
[4] OP:CCS,ROUTE,DPCID=g[,SM=h];
[5] OP:CCS,ROUTE,ABNORMAL[,SM=h];
[5] OP:CCS,ROUTE,ALLRTE[,SM=h];

3. EXPLANATION OF MESSAGE

ALL = Report for all networks, clusters, or DPCs.

XLIST = Dynamic x-lists within the cluster route set.

a = Network number or the lower limit of a range of networks. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

b = The upper limit of a range of networks. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

c = Cluster number or the lower limit of a range of clusters (ANSI or AT&T format). Refer to the APP:RANGES appendix in the Appendixes TRUNK & LINE MAINT section of the Input Messages manual.
d = The upper limit of a range of clusters (ANSI or AT&T format). Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

e = Destination point code (DPC) number. Refer to the APP:POINT-CODE appendix in the Appendixes section of the Input Messages manual.

f = The upper limit of a range of DPCs. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

g = A single DPC number.

h = Specific common channel signalling (CCS) global switching module (GSM) number from which the data is desired.

4. SYSTEM RESPONSE

PF = Printout follows. The request has been accepted. Followed by the OP:CCS-ROUTE output message. May also include:
   - MSG SENT TO SOME GSMS = Printout follows for GSMs the message has been sent to. The message could not be sent to all GSMs. Followed by the OP:CCS-ROUTE output message.

NG = No good. May also include:
   - NO GLOBAL SM = No GSM is provisioned in the office.
   - GSM MISMATCH = The specified SM is not a GSM or the SM does not exist.
   - SYSTEM BUSY = Resources unavailable to process request.

RL = Retry later. May also include:
   - SM NOT AVAILABLE = Command cannot be processed because the specified GSM is not accessible.
   - GSM(S) UNAVAILABLE = Command cannot be processed fully because some GSMs are not accessible.
   - NO GSMS AVAILABLE = Command cannot be processed because the GSMS are not accessible.

5. REFERENCES

Input Message(s):

STP:CCS-ROUTE

Output Message(s):

OP:CCS-ROUTE
STP:CCS-ROUTE

Input Appendix(es):

APP:RANGES
Other Manual(s):
235-200-115  CNI Common Channel Signaling
235-200-116  Signaling Gateway Common Channel Signaling
1. PURPOSE

Requests status information for one or more signaling connection control part (SCCP) subsystem(s) at one or more destination point codes (DPCs).

Note: This input message is applicable only for packet switching unit (PSU) platform CCS7.

2. FORMAT

```
OP:CCS,SCMG,SM=a[,DPCID=b[&c]][,SSN=d[&e]][,STATUS=f][,COUNT=g];
```

3. EXPLANATION OF MESSAGE

- **a**
  - Global switching module (GSM) number. CCS GSM number from which the data is desired.

- **b**
  - DPC or lower limit of a range of DPCs on which the subsystem(s) in question reside. When a range is specified, only equipped numbers in the range will be processed. If the DPC is not specified, a report will be generated for all DPCs.

  Note: The value must be entered as a 9 digit number. Refer to the APP:POINT-CODE appendix in the Appendixes section of the Input Messages manual for interpretation.

- **c**
  - Upper limit of a range of DPCs.

- **d**
  - SCCP subsystem number or lower range of subsystem numbers. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual. If the subsystem number is not entered, a report will be generated for all subsystem numbers.

- **e**
  - Upper limit of a range of SCCP subsystem numbers.

- **f**
  - Subsystem status. Valid value(s):
    - ALW = Display only allowed subsystems.
    - PROH = Display only prohibited subsystems.

  If the status is not specified, both allowed and prohibited subsystems will be displayed.

- **g**
  - The maximum number of DPCs for which output is to be generated. The allowed range is 1 to 2048, with a default of 10.

4. SYSTEM RESPONSE

- **NG**
  - No good. NG acknowledgements are used when the syntax of a message is valid, but the message has been denied. Additional information is printed out to explain why the message was
denied. May also include:
- SCCP NOT RUNNING ON SM = SCCP is not running on the specified SM.
- SM SPECIFIED NOT GSM = The SM specified is not a GSM or SM does not exist.
- DPC OUT OF RANGE = DPCID specified is outside the range of valid values.
- INVALID DPC = DPCID specified is not provisioned.

PF
Printout follows. Followed by the OP:CCS-SCMG output message.

RL
Retry later. May also include:
- SM NOT AVAILABLE = Command cannot be processed because the GSM is not accessible.

5. REFERENCES

Output Message(s):

OP:CCS-SCMG

Input Appendix(es):

APP:RANGES
APP:POINT-CODE

Other Manual(s):

235-190-120 Common Channel Signaling Service Features
OP:CCS-SLS

Software Release: 5E14 and later
Command Group: CCS
Application: 5
Type: Input

1. PURPOSE

Requests a display of the normal and current signaling link selection (SLS) distributions for all links currently
carrying traffic to the specified destination point code (DPC) or a display of the normal and current SLS distribution
of a link for a specific linkset (LS) or combined linkset (CLS) specified.

Note: This input message is applicable only for packet switching unit (PSU) platform CCS7.

2. FORMAT

OP:CCS,SLS[,SM=a]{,DPCID=b | SET=c};

3. EXPLANATION OF MESSAGE

a = Global switching module (GSM) number. CCS GSM number from which the data is desired. If no
SM number is specified and only one CCS GSM exists in the office, output will be produced for that
GSM. If multiple CCS GSMS exist in the office, the SM must be specified.

b = Specified DPC.

Note: The value must be entered as a 9 digit number. Refer to the APP:POINT-CODE
appendix in the Appendixes section of the Input Messages manual for
interpretation.

c = Specific LS or CLS number. Refer to the APP:RANGES appendix in the Appendixes section of
the Input Messages manual.

4. SYSTEM RESPONSE

NG = No good. May also include:
- GSM MISMATCH = The specified SM is not a GSM or the SM does not exist.
- NO GLOBAL SM = No GSM is provisioned in the office.
- NEED GSM NUMBER = SM was not specified in the input message, and the office has more than
  one GSM provisioned.
- SYSTEM BUSY = Resources unavailable to process request.

PF = Printout follows. Followed by the OP:CCS-SLS output message.

RL = Retry later. May also include:
- SM NOT AVAILABLE = Command cannot be processed because the specified GSM is not
  accessible.
5. REFERENCES

Output Message(s):

OP: CCS-SLS

Input Appendix(es):

APP: RANGES
APP: POINT-CODE

Other Manual(s):
235-190-120  Common Channel Signaling Service Features

MCC Display Page(s):

1532 (CCS LINK SET SUMMARY)
1533 (CCS LINK SET MEMBER)
OP:CCS-TPC

**Software Release:** 5E14 and later
**Command Group:** CCS
**Application:** 5
**Type:** Input

1. **PURPOSE**

Requests the translation point code (TPC) for a single or range of translation types to be displayed.

Note: This input message is applicable only for the packet switching unit (PSU) platform CCS7.

2. **FORMAT**

```
OP:CCS,TPC,TYPE={a[&b]} [,SM=c];
```  

3. **EXPLANATION OF MESSAGE**

- **a** = A single translation type or lower limit of a range of translation types. The translation type has a range of 1-256. A single translation type or lower limit of a range of translation types is required.
- **b** = The upper limit of a range of translation types.
- **c** = The common channel signaling (CCS) global SM (GSM) number that the request is to be routed. This is an optional field if there is only one GSM in the office. It is a required field if there is more than one GSM in the office.

4. **SYSTEM RESPONSE**

- **NG** = No good. The syntax of a message is valid, but the message has been denied. Additional information is printed out to explain why the message was denied. May also include:
  - MULTIPLE SM's - SINGLE SM PARAMETER REQUIRED = There is more than one GSM provisioned in the office.
  - NO GSM WITH C7NATL IN THE OFFICE = There are no GSM with CCS provisioned in the office.

- **RL** = Retry later. May also include:
  - SM NOT AVAILABLE = Command cannot be processed because the specified GSM is not accessible.
  - SCCP NOT AVAILABLE ON GSM = SCCP is not running on this SM.
  - SYSTEM BUSY = Resources unavailable to process request.

- **PF** = Printout follows. The request has been accepted and is followed by an OP:CCS,TPC output message.

5. **REFERENCES**

Output Message(s):
OP:CCSCQ

Software Release: 5E14 and later
Command Group: CCS
Application: 5
Type: Input

1. PURPOSE
Determines whether the common channel signaling (CCS) automatic circuit query for CCS7 trunks is inhibited or allowed for the entire office, and the circuit query start time.

2. FORMAT
OP:CCSCQ;

3. EXPLANATION OF MESSAGE
No variables.

4. SYSTEM RESPONSE
PP = Printout follows. The request has been accepted, and will be followed by an OP CCSCQ output message.

5. REFERENCES

Input Message(s):
ALW:CCSCQ
EXC:CCSCQ
INH:CCSCQ
STP:CCSCQ
OP:JOBSTATUS

Output Message(s):
EXC:CCSCQ
OP:CCSCQ
STP:CCSCQ
OP:JOBSTATUS

Other Manual(s):
235-190-120 Common Channel Signaling Service Features
OP:CFGSTAT-AM-A
Software Release: 5E14 - 5E16(1)
Command Group: MAINT
Application: 5,3B
Type: Input

1. PURPOSE
Requests output of configuration status information for administrative module (AM) hardware units. This request may optionally be constructed to output the status of a single unit, a list of units with a specified name and maintenance state, a list of all units with a particular maintenance state, or a list of all sub-devices of a specified complex.

2. FORMAT
OP:CFGSTAT[:a][,{b[=c][,d=e]}];

3. EXPLANATION OF MESSAGE

a = One of the following maintenance state definitions:
ACT = Active.
GROW = Being grown.
INIT = Initializing.
OFL = Off-line.
OOS = Out-of-service.
STBY = Standby.
UNAV = Unavailable.
UNEQIP = Unequipped.
If specified, then only units in that maintenance state specified will be listed.

b = Unit name. AM unit names are listed in the APP:MEM-NUM-UNIT appendix in the Appendixes section of the Input Messages manual.

c = Unit number. Refer to the APP:MEM-NUM-UNIT appendix in the Appendixes section of the Input Messages manual.

d = Subunit name if b=CU. AM control unit (CU) subunit names are listed in the APP:MEM-NUM-CU appendix in the Appendixes section of the Input Messages manual.

e = Subunit number. Refer to the APP:MEM-NUM-CU appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE
PF = Printout follows. Followed by OP:CFGSTAT output message.

RL = Retry later.

5. REFERENCES
Input Message(s):

OP:ACT
OP:GROW
OP:INIT
OP:OFL
OP:OOS
OP:STBY
OP:UNAV
OP:UNEQIP

Output Message(s):

OP:ACT
OP:CFGSTAT
OP:GROW
OP:INIT
OP:OFL
OP:OOS
OP:STBY
OP:UNAV
OP:UNEQIP

Input Appendix(es):

APP:MEM–NUM–CU
APP:MEM–NUM–UNIT
OP:CFGSTAT-AM-B

Software Release: 5E16(2) and later
Command Group: MAINT
Application: 5,3B
Type: Input

1. PURPOSE

Requests output of configuration status information for administrative module (AM) hardware units. This request may optionally be constructed to output the status of a single unit, a list of units with a specified name and maintenance state, a list of all units with a particular maintenance state, or a list of all sub-devices of a specified complex.

2. FORMAT

OP:CFGSTAT[:a][,{b[=c][,d=e]}][:f=g];

3. EXPLANATION OF MESSAGE

a = Maintenance state. Valid value(s):
   ACT = Active.
   GROW = Being grown.
   INIT = Initializing.
   OFL  = Off-line.
   OOS  = Out-of-service.
   STBY = Standby.
   UNAV = Unavailable.
   UNEQIP = Unequipped.

   If specified, then only units in the maintenance state specified will be listed.

b = Unit name. AM unit names are listed in the APP:MEM-NUM-UNIT appendix in the Appendixes section of the Input Messages manual.

c = Unit number. Refer to the APP:MEM-NUM-UNIT appendix in the Appendixes section of the Input Messages manual.

d = Subunit name if variable 'b' equals "CU". AM control unit (CU) subunit names are listed in the APP:MEM-NUM-CU appendix in the Appendixes section of the Input Messages manual.

e = Subunit number. Refer to the APP:MEM-NUM-CU appendix in the Appendixes section of the Input Messages manual.

f = Device name.
   VTTY = Virtual teletypewriter (TTY).
   VTTYC = Virtual TTY controller.
   VIOP = Virtual input/output processor (IOP).

g = Device number. Valid value(s):

<table>
<thead>
<tr>
<th>'f'</th>
<th>then 'g' =</th>
</tr>
</thead>
<tbody>
<tr>
<td>VTTY</td>
<td>0-255</td>
</tr>
<tr>
<td>VTTYC</td>
<td>0-15</td>
</tr>
</tbody>
</table>
4. SYSTEM RESPONSE

PF = Printout follows. Followed by OP:CFGSTAT output message.

RL = Retry later.

5. REFERENCES

Input Message(s):

OP:ACT
OP:GROW
OP:INIT
OP:OFL
OP:OOS
OP:STBY
OP:UNAV
OP:UNEQIP

Output Message(s):

OP:ACT
OP:CFGSTAT
OP:GROW
OP:INIT
OP:OFL
OP:OOS
OP:STBY
OP:UNAV
OP:UNEQIP

Input Appendix(es):

APP:MEM-NUM-CU
APP:MEM-NUM-UNIT
OP:CFGSTAT-CM-A

Software Release: 5E14 only
Command Group: MAINT
Application: 5
Type: Input

1. PURPOSE

Requests a printout of the configuration status of the specified communications module (CM) unit. Configuration requests of QPIPEs, QLNKs, and ISMQLNKs associated with the quad link packet switch (QLPS) in a network are available using the OP:QNETSTAT input message.

Format 1 requests the configuration status of the specified CM unit, regardless of its current maintenance state. Format 2 requests the configuration status of the specified CM units, excluding units in growth (NOGRO) and/or OOS family-of-equipment (NOFE) state. Format 3 requests the configuration status of all CM units that are in the specified maintenance state. Format 4 requests the configuration status of all unavailable CM units. If the NOGRO option is specified, units in the growth state are not included. Format 5 requests the configuration status of all CM units or all out-of-service (OOS) CM units, excluding units in growth (NOGRO) and/or OOS family-of-equipment (NOFE) state.

2. FORMAT

[1]  OP:CFGSTAT, {MSGS=a|MSCU=a|CMP=a-b|MMP=a-b|FPC=a|PPC=a|QGP=a-j|QGL=a-j-b
|ONTC=c|ONTCCOM=c|TMSLNK=c-g[&h]|QLPS=c-k|QTMSLNK=c-k-b
|NCREF,XC=c|NCREF,PRIM=c|NCREF,SEC=c|NCREF,REFn=c|NCOSC=c|OSCXC=c
|CLNK=d-c-f-a|DLI=d[&&e]};

[2]  OP:CFGSTAT, {MSGS=a|ONTC=c|DLI=d[&e]-c|NLI=d-i-c
|TMSLNK=c-g[&h]}, {NOFE|NOGRO};


[4]  OP:CFGSTAT, CM, UNAV[, NOGRO];

[5]  OP:CFGSTAT, CM[, ALL|OOS], {NOGRO|NOFE};

3. EXPLANATION OF MESSAGE

ACT  = Report on units that are in an active state.
ALL  = Report status of CM/QLPSNW units of all states.
CLNK = Communication link.
CMP  = Communication module processor.
FPC  = Foundation peripheral controller.
FRC  = Report on unit that are in a forced active state.
MMP  = Module message processor.
MSCU = Message switch control unit.
MSGS = Message switch.
NCOSC = Network clock oscillator.
NCREF, PRIM = Network clock primary reference. The office is equipped with network clock 1 (NC1).
NCREF, REFn = Network clock reference number ‘n’, where n = 1-8. The office is equipped with network clock 2 (NC2).
NCREF, SEC = Network clock secondary reference. The office is equipped with network clock 1 (NC1).
NCREF, XC = Network clock cross-couple reference.
NLI = Network link interface. Valid for SM-2000 only.
NOFE = Report on units that are not OOS family of equipment. When specified, this option prevents the listing of circuits that are OOS family-of-equipment (FE).
NOGRO = Report on units that are no growth. When specified, this option prevents the listing of circuits in growth states.
ONTC = Office network and timing complex.
ONTCCOM = Office network and timing complex (ONTC) common controller.
OOS = Report on units that are in an out-of-service state.
OSCXC = Oscillator cross-couple.
PPC = Pump peripheral controller.
PWRALM = Report on units that are in a power alarm state.
PWROFF = Report on units that are in a power off state.
QGL = Quad-link gateway link.
QGP = Quad-link gateway processor.
QLPS = Quad-link packet switch.
QTMSLNK = Quad-link packet switch (QLPS) time multiplexed switch link.
STBY = Report on units that are in a standby state.
TMSLNK = Time multiplexed switch link.
UNAV = Report on units that are in a forced unavailable state.

a = MSGS side. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

b = Unit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
c  = ONTC side. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.


f  = MMP unit number associated with the specified CLNK. Valid value(s):
   0  = MMP that handles the even control time slot associated with the SM/SM-2000.
   1  = MMP that handles the odd control time slot associated with the SM/SM-2000.

g  = Time multiplexed switch (TMS) link number, or lower limit of a range of link numbers. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

h  = Upper limit of a range of TMS link numbers. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

i  = NLI number.

j  = QGP number.

k  = QLPS number.

l  = Source SM/SM-2000 number. Default is report status of all units associated with all end points. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

m  = Destination SM/SM-2000 number. Default is report status of QLNKs and ISMQLNKs to all other end points from specified source end point. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

NG  = No good. The message syntax is valid, but the request conflicts with the current system or equipment status. Refer to the APP:CM-IM-REASON appendix in the Appendixes section of the Input Messages manual for a list of possible reasons for denying the request.

PF  = Printout follows. An OP:CFGSTAT-CM output message follows in response to the request.

RL  = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

Input Message(s):

OP:QNETSTAT

Output Message(s):

OP:CFGSTAT-CM
OP : CFGSTAT-QN

Input Appendix(es):
APP : CM-IM-REASON
APP : RANGES

Other Manual(s):
235-105-110  System Maintenance Requirements and Tools
235-105-220  Corrective Maintenance
235-105-250  System Recovery Procedures

MCC Display Page(s):
1200,X (SMX DLI/NLI SUMMARY)
1209 (ONTC 0 & 1)
1210 (MI/NC 0 & 1)
1211 [NETWORK CLOCK2 OSCILLATORS, REFERENCES, CROSSCOUPLES (CM2 ONLY)]
1220 (TMS 0 & 1 LINK SUMMARY)
1221/31 (TMS 0/1 LINKS 2-63)
1222/32 (TMS 0/1 LINKS 64-127)
1223/33 (TMS 0/1 LINKS 128-191)
1224/34 (TMS 0/1 LINKS 192-255)
1225/35 (TMS 0/1 LINKS 256-319)
1226/36 (TMS 0/1 LINKS 320-383)
1227/37 (TMS 0/1 LINKS 384-447)
1228/38 (TMS 0/1 LINKS 448-511)
1240/50 (MSGS 0/1 SUMMARY)
1241/51 (MSGS 0/1 COMMUNITIES 0-1,8-9)
1242/52 (MSGS 0/1 COMMUNITIES 2-7)
1243/53 (MSGS 0/1 COMMUNITIES 10-15)
1380/1 (QLPS NETWORK 0/1 STATUS)
1900,X (SMX CLNKs)
OP:CFGSTAT-CM-B

Software Release: 5E15 - 5E16(1)
Command Group: MAINT
Application: 5
Type: Input

1. PURPOSE

Requests a printout of the configuration status of the specified communications module (CM) unit. Configuration requests of QPIPEs, QLNKs, and ISMQLNKs associated with the quad link packet switch (QLPS) in a network are available using the OP:QNETSTAT input message.

Format 1 requests the configuration status of the specified CM unit, regardless of its current maintenance state.

Format 2 requests the configuration status of the specified CM units, excluding units in growth (NOGRO) and/or OOS family-of-equipment (NOFE) state.

Format 3 requests the configuration status of all CM units that are in the specified maintenance state.

Format 4 requests the configuration status of all unavailable CM units. If the NOGRO option is specified, units in the growth state are not included.

Format 5 requests the configuration status of all CM units or all out-of-service (OOS) CM units, excluding units in growth (NOGRO) and/or OOS family-of-equipment (NOFE) state.

2. FORMAT

Format 1: 
OP:CFGSTAT,{MSGS=a|MSCU=a|CMP=a-b|MMP=a-b|FPC=a|PPC=a|QGP=a-j|QGL=a-j-b|ONTC=c|ONTCCOM=c|TMSLNK=c-g[&h]|QLPS=c-k|QTMPSLNK=c-k-b|NCREF, XC=c|NCREF, PRIM=c|NCREF, SEC=c|NCREF, REFn=c[,TYPE=n]|NCOSC=c|OSCXC=c|CLNK=d-c-f-a|DLI=d[&e]|NC=c};

Format 2: 
OP:CFGSTAT,{MSGS=a|ONTC=c|DLI=d[&e]-c|NLI=d-i-c|TMSLNK=c-g[&h]},{NOFE|NOGRO};

Format 3: 
OP:CFGSTAT,CM,{ALL|ACT|FRC|OOS|PWRALM|PWROFF|STBY|UNAV};

Format 4: 
OP:CFGSTAT,CM,UNAV[,NOGRO];

Format 5: 
OP:CFGSTAT,CM[,ALL|OOS],{NOGRO|NOFE};

3. EXPLANATION OF MESSAGE

ACT = Report on units that are in an active state.
ALL = Report status of CM/QLPSNW units of all states.
CLNK = Communication link.
CMP = Communication module processor.
FPC = Foundation peripheral controller.
FRC = Report on unit that are in a forced active state.
MMP = Module message processor.
MSCU = Message switch control unit.
MSGS = Message switch.
NC = Network clock model 3 (NC3).
NCOSC = Network clock oscillator.
NCREF, PRIM = Network clock primary reference. The office is equipped with network clock 1 (NC1).
NCREF, REF^n = Network clock reference number 'n', where n = 1-8. The office is equipped with network clock 2 (NC2) or network clock 3 (NC3).
NCREF, SEC = Network clock secondary reference. The office is equipped with network clock 1 (NC1).
NCREF, XC = Network clock cross-couple reference. Not valid for network clock 3 (NC3).
NLI = Network link interface. Valid for SM-2000 only.
NOFE = Report on units that are not OOS family of equipment. When specified, this option prevents the listing of circuits that are OOS family-of-equipment (FE).
NOGRO = Report on units that are no growth. When specified, this option prevents the listing of circuits in growth states.
ONTC = Office network and timing complex.
ONTCCOM = Office network and timing complex (ONTC) common controller.
OOS = Report on units that are in an out-of-service state.
OSCXC = Oscillator cross-couple. Not valid for network clock 3 (NC3).
PPC = Pump peripheral controller.
PWRALM = Report on units that are in a power alarm state.
PWROFF = Report on units that are in a power off state.
QGL = Quad-link gateway link.
QGP = Quad-link gateway processor.
QLPS = Quad-link packet switch.
QTMSLNK = Quad-link packet switch (QLPS) time multiplexed switch link.
STBY = Report on units that are in a standby state.
TMSLNK = Time multiplexed switch link.
UNAV = Report on units that are in a forced unavailable state.
a = MSGS side. Refer to the APP:RANGES appendix in the Appendixes section of the Input
Messages manual.

b = Unit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

c = ONTC side. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.


f = MMP unit number associated with the specified CLNK. Valid value(s):
   0 = MMP that handles the even control time slot associated with the SM/SM-2000.
   1 = MMP that handles the odd control time slot associated with the SM/SM-2000.

g = Time multiplexed switch (TMS) link number, or lower limit of a range of link numbers. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

h = Upper limit of a range of TMS link numbers. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

i = NLI number.

j = QGP number.

k = QLPS number.

l = Source SM/SM-2000 number. Default is report status of all units associated with all end points. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

m = Destination SM/SM-2000 number. Default is report status of QLNKs and ISMQLNKs to all other end points from specified source end point. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

n = Reference type. This is only legal for NC3. This is only required if the same reference number is equipped with different reference types. The values are:
   10M = 10 MHz analog clock reference.
   2M = 2.048 MHz analog clock reference.
   CC = 64 KHz Composite clock Reference.
   DGTL = Digital clock reference.

4. SYSTEM RESPONSE

NG = No good. The message syntax is valid, but the request conflicts with the current system or equipment status. Refer to the APP:CM-IM-REASON appendix in the Appendixes section of the Input Messages manual for a list of possible reasons for denying the request.

PF = Printout follows. An OP:CFGSTAT-CM output message follows in response to the request.
RL = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

Input Message(s):

OP:QNETSTAT

Output Message(s):

OP:CFGSTAT-CM
OP:CFGSTAT-QN

Input Appendix(es):

APP:CM-IM-REASON
APP:RANGES

Other Manual(s):
235-105-110 System Maintenance Requirements and Tools
235-105-220 Corrective Maintenance
235-105-250 System Recovery Procedures

MCC Display Page(s):

1200,X (SMX DLI/NLI SUMMARY)
1209 (ONTC 0 & 1)
1210 (NETWORK CLOCK)
1211 (NETWORK CLOCK REFERENCES)
1220 (TMS 0 & 1 LINK SUMMARY)
1221/31 (TMS 0/1 LINKS 2-63)
1222/32 (TMS 0/1 LINKS 64-127)
1223/33 (TMS 0/1 LINKS 128-191)
1224/34 (TMS 0/1 LINKS 192-255)
1225/35 (TMS 0/1 LINKS 256-319)
1226/36 (TMS 0/1 LINKS 320-383)
1227/37 (TMS 0/1 LINKS 384-447)
1228/38 (TMS 0/1 LINKS 448-511)
1240/50 (MSGS 0/1 SUMMARY)
1241/51 (MSGS 0/1 COMMUNITIES 0-1,8-9)
1242/52 (MSGS 0/1 COMMUNITIES 2-7)
1243/53 (MSGS 0/1 COMMUNITIES 10-15)
1380/1 (QLPS NETWORK 0/1 STATUS)
1900,X (SMX CLNKs)
OP:CFGSTAT-CM-C  
Software Release: 5E16(2) and later  
Command Group: MAINT  
Application: 5  
Type: Input

1. PURPOSE

Requests a printout of the configuration status of the specified communications module (CM) unit. Configuration requests of QPIPECs, QLNKs, and ISMQNLKs associated with the quad link packet switch (QLPS) in a network are available using the OP:QNETSTAT input message.

Format 1 requests the configuration status of the specified CM unit, regardless of its current maintenance state.

Format 2 requests the configuration status of the specified CM units, excluding units in growth (NOGRO) and/or OOS family-of-equipment (NOFE) state.

Format 3 requests the configuration status of all CM units that are in the specified maintenance state.

Format 4 requests the configuration status of all unavailable CM units. If the NOGRO option is specified, units in the growth state are not included.

Format 5 requests the configuration status of all CM units or all out-of-service (OOS) CM units, excluding units in growth (NOGRO) and/or OOS family-of-equipment (NOFE) state.

2. FORMAT

[1] OP:CFGSTAT,{MSGs=a|MSCU=a|CMP=a-b|MMP=a-b|FPC=a|PPC=a|QGP=a-j| ...  
. . . QGL=a-j-b|ONTC=c|ONTCCOM=c|TMSFP=c-o|TMSLNK=c[-o]-g[&h]| ...  
. . . QLPS=c-k|QTMSLNK=c-k-b|NCREF,XC=c|NCREF,PRIM=c|NCREF,SEC=c| ...  
. . . NCREF,REFn=c[,TYPE=n]|NCOSC=c|OSCXC=c|CLNK=d-c-f-a| ...  
. . . DLI=d[&e]-c|NLi=d[&e]-i[&p]-c|NC=c};

[2] OP:CFGSTAT,{MSGs=a|ONTC=c|DLI=d[&e]-c|NLI=d[&e]-i[&p]-c|. . .  
. . . TMSFP=c-o|TMSLNK=c[-o]-g[&h]}, {ALL|OOS|NOFE|NOGRO};


[4] OP:CFGSTAT,CM,UNAV[,NOGRO];

[5] OP:CFGSTAT,CM[,ALL|OOS], {NOGRO|NOFE};

3. EXPLANATION OF MESSAGE

ACT = Report on units that are in an active state.

ALL = Report status of CM/child units of all states.

CLNK = Communication link.
<table>
<thead>
<tr>
<th>Abbreviation</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>CMP</td>
<td>Communication module processor.</td>
</tr>
<tr>
<td>FPC</td>
<td>Foundation peripheral controller.</td>
</tr>
<tr>
<td>FRC</td>
<td>Report on units that are in a forced active state.</td>
</tr>
<tr>
<td>MMP</td>
<td>Module message processor.</td>
</tr>
<tr>
<td>MSCU</td>
<td>Message switch control unit.</td>
</tr>
<tr>
<td>MSGS</td>
<td>Message switch.</td>
</tr>
<tr>
<td>NC</td>
<td>Network clock model 3 (NC3).</td>
</tr>
<tr>
<td>NCOSC</td>
<td>Network clock oscillator.</td>
</tr>
<tr>
<td>NCREF, PRIM</td>
<td>Network clock primary reference. The office is equipped with network clock 1 (NC1).</td>
</tr>
<tr>
<td>NCREF, REFₙ</td>
<td>Network clock reference number 'ₙ', where ₙ = 1-8. The office is equipped with network clock 2 (NC2) or network clock 3 (NC3).</td>
</tr>
<tr>
<td>NCREF, SEC</td>
<td>Network clock secondary reference. The office is equipped with NC1.</td>
</tr>
<tr>
<td>NLI</td>
<td>Network link interface. Valid for SM-2000 only.</td>
</tr>
<tr>
<td>NOFE</td>
<td>Report on units that are not OOS family of equipment. When specified, this option prevents the listing of circuits that are OOS family-of-equipment (FE).</td>
</tr>
<tr>
<td>NOGRO</td>
<td>Report on units that are not in the growth state. When specified, this option prevents the listing of circuits in growth states.</td>
</tr>
<tr>
<td>ONS</td>
<td>Office network and timing complex.</td>
</tr>
<tr>
<td>ONTCOM</td>
<td>Office network and timing complex (ONTC) common controller.</td>
</tr>
<tr>
<td>OOS</td>
<td>Report on units that are in an OOS state.</td>
</tr>
<tr>
<td>OSCXC</td>
<td>Oscillator cross-couple. Not valid for NC3.</td>
</tr>
<tr>
<td>PPC</td>
<td>Pump peripheral controller.</td>
</tr>
<tr>
<td>PWRALM</td>
<td>Report on units that are in a power alarm state.</td>
</tr>
<tr>
<td>PWROFF</td>
<td>Report on units that are in a power off state.</td>
</tr>
<tr>
<td>QGL</td>
<td>Quad-link gateway link.</td>
</tr>
<tr>
<td>QGP</td>
<td>Quad-link gateway processor.</td>
</tr>
<tr>
<td>QLPS</td>
<td>Quad-link packet switch.</td>
</tr>
<tr>
<td>QTMSLNK</td>
<td>Quad-link packet switch (QLPS) time multiplexed switch link.</td>
</tr>
</tbody>
</table>
STBY = Report on units that are in a standby state.
TMSFP = Time multiplexed switch fabric pair number. This option is not valid for CM2 offices.
TMSLNK = Time multiplexed switch link.
UNAV = Report on units that are in a forced unavailable state.
a = MSGS side. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
b = Unit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
c = ONTC side. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
f = MMP unit number associated with the specified CLNK. Valid value(s):
   0 = MMP that handles the even control time slot associated with the SM/SM-2000.
   1 = MMP that handles the odd control time slot associated with the SM/SM-2000.
g = Time multiplexed switch (TMS) link number, or lower limit of a range of link numbers. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
h = Upper limit of a range of TMS link numbers. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
i = NLI number, or lower limit of a range of NLI numbers.
j = QGP number.
k = QLPS number.
l = Source SM/SM-2000 number. Default is report status of all units associated with all end points. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
m = Destination SM/SM-2000 number. Default is report status of QLNKs and ISMQLNKs to all other end points from specified source end point. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
n = Reference type. This is only legal for NC3. This is only required if the same reference number is equipped with different reference types. Valid value(s):
   10M = 10 MHz analog clock reference.
   2M = 2.048 MHz analog clock reference.
   CC = 64 KHz Composite clock Reference.
   DGTL = Digital clock reference.
o = Time multiplexed switch fabric pair (TMSFP) number. For CM2 offices, when used with the
TMSLNK option, this parameter is optional, and when entered, must always be TMS fabric pair 0. For CM3 offices, when used with the TMSLNK option, this parameter is required to identify a TMS link. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

\[ p \]

= Upper limit of a range of NLI numbers. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

NG

= No good. The message syntax is valid, but the request conflicts with the current system or equipment status. Refer to the APP:CM-IM-REASON appendix in the Appendixes section of the Input Messages manual for a list of possible reasons for denying the request.

PF

= Printout follows. An OP:CFGSTAT-CM output message follows in response to the request.

RL

= Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

Input Message(s):

OP:QNETSTAT

Output Message(s):

OP:CFGSTAT-CM
OP:QNETSTAT

Input Appendix(es):

APP:CM-IM-REASON
APP:RANGES

Other Manual(s):

235-105-110 System Maintenance Requirements and Tools
235-105-220 Corrective Maintenance
235-105-250 System Recovery Procedures

MCC Display Page(s):

1200,X SMX DLI/NLI SUMMARY
1209 ONTC 0 & 1
1210 NETWORK CLOCK
1211 NETWORK CLOCK REFERENCES
1212 TMS FABRIC PAIR STATUS (CM3 only)
1214 QLPS SUMMARY (CM3 only)
1220[,o] TMS 0 & 1 LINK SUMMARY (where o=TMSFP for CM3)
1221[,o] TMS 0 LINKS 2-61 (where o=TMSFP for CM3)
1222[,o] TMS 0 LINKS 62-125 (where o=TMSFP for CM3)
1223[,o] TMS 0 LINKS 126-189 (where o=TMSFP for CM3)
1224[,o] TMS 0 LINKS 190-253 (where o=TMSFP for CM3)
1225[o] TMS 0 LINKS 254-317 (where o=TMSFP for CM3)
1226[o] TMS 0 LINKS 318-381 (where o=TMSFP for CM3)
1227[o] TMS 0 LINKS 382-445 (where o=TMSFP for CM3)
1228[o] TMS 0 LINKS 446-511 (where o=TMSFP for CM3)
1231[o] TMS 1 LINKS 2-61 (where o=TMSFP for CM3)
1232[o] TMS 1 LINKS 62-125 (where o=TMSFP for CM3)
1233[o] TMS 1 LINKS 126-189 (where o=TMSFP for CM3)
1234[o] TMS 1 LINKS 190-253 (where o=TMSFP for CM3)
1235[o] TMS 1 LINKS 254-317 (where o=TMSFP for CM3)
1236[o] TMS 1 LINKS 318-381 (where o=TMSFP for CM3)
1237[o] TMS 1 LINKS 382-445 (where o=TMSFP for CM3)
1238[o] TMS 1 LINKS 446-511 (where o=TMSFP for CM3)
1240/50 MSGS 0/1 SUMMARY
1241/51 MSGS 0/1 COMMUNITIES 0-1,8-9
1242/52 MSGS 0/1 COMMUNITIES 2-7
1243/53 MSGS 0/1 COMMUNITIES 10-15
1380/1 TMS LINK SUMMARY (where b=TMSFP number)
1900,X SMX CLNKs
OP:CFGSTAT-SM

Software Release: 5E14 and later
Command Group: MAINT
Application: 5
Type: Input

1. PURPOSE

Requests the current configuration status (CFGSTAT) of switching module (SM) circuits. The OP:CFGSTAT-SM output message will be printed, and will list the SMs that are in the specified state.

Note: If the hardware status is required for the module controller/timeslot interchange (MCTSI), use the OP:OFFNORM input message.

2. FORMAT

OP:CFGSTAT,SM=a[&b],c[,NOFE|NOPRINT];

3. EXPLANATION OF MESSAGE

NOFE = Not family of equipment. When specified with the OOS state (variable 'c'), this option prevents the listing of circuits that are OOS family of equipment (FE).

NOPRINT = No print. When specified with the OOS state (variable 'c'), this option prevents the printing of the OOS report headers for those SMs that have no OOS units.

a = SM number, or the lower limit of a range of SM numbers.

b = The upper limit of a range of SM numbers.

c = Current state:
   ACT = List all active circuits in the SM.
   ALINKS = List all out-of-service A-links in the SM.
   ALL = List status of all circuits in the SM.
   GROWTH = List all circuits in growth state in the SM(s).
   OOS = List all out-of-service circuits in the SM(s).
   STBY = List all standby circuits in the SM(s).
   SPARE = List all integrated services line unit (ISLU) active spare line cards and corresponding faulty line cards.

Note 1: The range option is available only for GROWTH, STBY and OOS states.
Note 2: If a large amount of records is requested, then some records may not be printed on the receive-only printer (ROP) due to the finite queuing capability.

4. SYSTEM RESPONSE

NG = No good. May also include:
   - SM DOES NOT EXIST = The message syntax is valid, but the requested SM is not in the system.
   - SM UNEQUIPPED = The message syntax is valid, but the requested SM is unequipped.
UNIT DOES NOT EXIST = The message syntax is valid, but the requested unit is not in the system.

PF = Printout follows. An OP:CFGSTAT-SM output message will follow in response to the request.

RL = Retry later. The request cannot be executed now. A lack of system resources has resulted in loss of communication to the requested SM.

5. REFERENCES

Input Message(s):

OP: DMQ

Output Message(s):

OP: CFGSTAT-SM
OP: OFFNORM-SM
OP:CGA-A

Software Release: 5E14 - 5E15
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Requests that the active carrier group alarms from integrated carrier facilities terminating on digital facility interfaces (DFIs), integrated digital carrier units (IDCUs), remote integrated services line units (RISLUs), non-integrated carrier facilities monitored by metallic service unit (MSU) scan points, and digital networking unit-synchronous optical network (SONET)(DNU-S) be printed. An optional parameter allows for an OP:CGA request for a selected SM or a range of SMs, or for a selected electrical carrier level 1 SONET termination equipment (EC1STE) interface.

2. FORMAT

OP:CGA[,SM=a[&b]|EC1STE=c-d-e-f];

3. EXPLANATION OF MESSAGE

a  = Switching module (SM) number or the lower limit of a range of SM numbers. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

b  = Upper limit of a range of SM numbers. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

c  = Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

d  = DNU-S number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

e  = Data group (DG) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

f  = SONET termination equipment (STE) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

NG  = No good. The request has been denied.

PF  = Printout follows. The request has been accepted. The OP:CGA output message follows containing the list.

RL  = Retry later. The request cannot be executed now because the system is busy. Valid value(s):

- OP ALM ALL CURRENTLY IN PROGRESS = The OP:ALM input message with the ALL option is currently running, making resources unavailable for OP:CGA.

- OP CGA CURRENTLY IN PROGRESS = A previous OP:CGA input message is currently running, making resources unavailable for this OP:CGA input message.
5. REFERENCES

Input Message(s):

OP : ALM
OP : FAC

Output Message(s):

OP : ALM-ALL
OP : CGA
OP : FAC

Input Appendix(es):

APP : RANGES
OP:CGA-B

Software Release: 5E16(1) only
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Requests that the active carrier group alarms be printed for integrated carrier facilities terminating on digital facility interfaces (DFIs), digital networking unit-synchronous optical network (SONET)(DNU-S), integrated digital carrier units (IDCUs), optical interface unit (OIU), remote integrated services line units (RISLUs), SLC® 96 DFI facility interfaces (SDFIs), and non-integrated carrier facilities monitored by metallic service unit (MSU) scan points.

An optional parameter allows for an OP:CGA request for a selected SM or a range of SMs, a selected electrical carrier level 1 SONET termination equipment (EC1STE) interface, a selected optical interface unit (OIU) optical carrier rate 3 (OC3). STE.

2. FORMAT

OP:CGA[,SM=a[&b]|EC1STE=c-d-e-f|OC3=c-g-h-i];

3. EXPLANATION OF MESSAGE

a = Switching module (SM) number or the lower limit of a range of SM numbers. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

b = Upper limit of a range of SM numbers. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

c = Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

d = DNU-S number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

e = Data group (DG) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

f = SONET termination equipment (STE) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

g = OIU number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

h = Protection group (PG) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

i = OIU OC3 STE number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

NG = No good. The request has been denied.
PF  = Printout follows. The request has been accepted. Followed by the OP:CGA output message containing the list.

RL  = Retry later. The request cannot be executed now because the system is busy. May also include:
- OP ALM ALL CURRENTLY IN PROGRESS = The OP:ALM input message with the ALL option is currently running, making resources unavailable for OP:CGA.
- OP CGA CURRENTLY IN PROGRESS = A previous OP:CGA input message is currently running, making resources unavailable for this OP:CGA input message.

5. REFERENCES

Input Message(s):

OP: ALM
OP: FAC

Output Message(s):

OP: ALM-ALL
OP: CGA
OP: FAC

Input Appendix(es):

APP: RANGES
OP:CGAP

Software Release: 5E14 and later
Command Group: NMOC
Application: 5
Type: Input

1. PURPOSE
Requests that all call gapping (CGAP) code controls in the office be listed.

2. FORMAT
OP:CGAP;

3. EXPLANATION OF MESSAGE
No variables.

4. SYSTEM RESPONSE

PF = Printout follows. Followed by the OP:CGAP output message.

RL = Retry later. May also include:
- CONFLICTING REQUEST = A similar request is being processed utilizing necessary resources.
- RESOURCE SHORTAGE = The necessary resources are not available.

5. REFERENCES
Input Message(s):

CLR:CGAP
OP:M5
SET:CGAP

Output Message(s):

OP:CGAP
**OP:CHANMAP-A**

**Software Release:** 5E14 - 5E16(1)
**Command Group:** TRACE
**Application:** 5
**Type:** Input

1. **PURPOSE**

Request output containing the busy/idle status of T1 facility channels, and how they are populated with circuit switched voice (CSV) and circuit switched data (CSD) (DS0 and/or wideband) calls. This is provided as a front-end for the utility call trace (UCT) mechanism. OP:CHANMAP can be used to determine which channel is of interest, then the UCT mechanism can be used to find information about the complete path through the network.

Conversely, the UCT mechanism can be used on a channel of a wideband call to determine originating and terminating facilities. Then OP:CHANMAP can be used on each facility to determine other channels that are used by the same wideband call. This enables the user to avoid doing a utility call trace for each channel of a wideband call.

2. **FORMAT**

[1] OP:CHANMAP,DFAC=a-b-c-d;

[2] OP:CHANMAP,DS1SFAC=a-e-f-h-g-i-j;

3. **EXPLANATION OF MESSAGE**

a = Switching module (SM) number.
b = Digital line and trunk unit (DLTU) number.
c = Digital facility interface (DFI) number.
d = Facility (FAC) number.
e = Digital networking unit (DNU) - synchronous optical network (SONET) (DNU-S) number.
f = Data group number.
g = Synchronous transport signal (STS) number.
h = SONET termination equipment (STE) facility number.
i = Virtual tributary group (VTG) number.
j = Virtual tributary member (VTM) number.

4. **SYSTEM RESPONSE**

NG = No good. Valid value(s):
   - REASON FOR NG = One or more arguments are not within legal range.

PF = Printout follows. Valid value(s):
   - EVENT n = The request has been accepted and is being processed. One or more OP:CHANMAP output messages will follow.
5. REFERENCES

Output Message(s):

OP : CHANMAP

Other Manual(s):
235-105-220  Corrective Maintenance Procedures
235-190-110  National ISDN Feature Descriptions
OP:CHANMAP-B

Software Release: 5E16(2) and later
Command Group: TRACE
Application: 5
Type: Input

1. PURPOSE

Request output containing the busy/idle status of T1 facility channels, and how they are populated with circuit switched voice (CSV) and circuit switched data (CSD) (DS0 and/or wideband) calls. This is provided as a front-end for the utility call trace (UCT) mechanism. OP:CHANMAP can be used to determine which channel is of interest, then the UCT mechanism can be used to find information about the complete path through the network.

Conversely, the UCT mechanism can be used on a channel of a wideband call to determine originating and terminating facilities. Then OP:CHANMAP can be used on each facility to determine other channels that are used by the same wideband call. This enables the user to avoid doing a utility call trace for each channel of a wideband call.

2. FORMAT

\[1\] OP:CHANMAP,DFAC=a-b-c-d;

\[2\] OP:CHANMAP,DS1SFAC=a-e-f-h-g-i-j;

\[3\] OP:CHANMAP,DS1=a-k-l-m-n-i-j;

3. EXPLANATION OF MESSAGE

a = Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Output Messages manual.

b = Digital line and trunk unit (DLTU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Output Messages manual.

c = Digital facility interface (DFI) number. Refer to the APP:RANGES appendix in the Appendixes section of the Output Messages manual.

d = Facility (FAC) number. Refer to the APP:RANGES appendix in the Appendixes section of the Output Messages manual.

e = Digital networking unit (DNU) - synchronous optical network (SONET) (DNU-S) number. Refer to the APP:RANGES appendix in the Appendixes section of the Output Messages manual.

f = Data group number. Refer to the APP:RANGES appendix in the Appendixes section of the Output Messages manual.

g = Synchronous transport signal (STS) number. Refer to the APP:RANGES appendix in the Appendixes section of the Output Messages manual.

h = SONET termination equipment (STE) facility number. Refer to the APP:RANGES appendix in the Appendixes section of the Output Messages manual.

i = Virtual tributary group (VTG) number. Refer to the APP:RANGES appendix in the Appendixes
section of the Output Messages manual.

\[ j \] = Virtual tributary member (VTM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Output Messages manual.

\[ k \] = Optical interface unit (OIU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Output Messages manual.

\[ l \] = Protection group (PG) number. Refer to the APP:RANGES appendix in the Appendixes section of the Output Messages manual.

\[ m \] = Optical carrier level 3 (OC3) number. Refer to the APP:RANGES appendix in the Appendixes section of the Output Messages manual.

\[ n \] = Synchronous transport signal level 1 (STS1) number. Refer to the APP:RANGES appendix in the Appendixes section of the Output Messages manual.

4. SYSTEM RESPONSE

\[ \text{NG} \] = No good. May also include:
- \[ \text{REASON FOR NG} \] = One or more arguments are not within legal range.

\[ \text{PF} \] = Printout follows. May also include:
- \[ \text{EVENT n} \] = The request has been accepted and is being processed. One or more OP:CHANMAP output messages will follow.

\[ \text{RL} \] = Retry later.

5. REFERENCES

Output Message(s):

\[ \text{OP:CHANMAP} \]

Other Manual(s):
235-105-220 \textit{Corrective Maintenance}
OP:CLID

Software Release: 5E14 and later
Command Group: TRACE
Application: 5
Type: Input

1. PURPOSE
Requests that the directory numbers on the calling line identification list (CLID) be printed.

2. FORMAT
OP:CLID;

3. EXPLANATION OF MESSAGE
No variables.

4. SYSTEM RESPONSE

PF = Printout follows. The request has been accepted. The OP:CLID-LIST output message will follow, answering the query.

5. REFERENCES
Input Message(s):

   TRC:CLID

Output Message(s):

   OP:CLID-LIST

Other Manual(s):
235-105-210 Routine Operations and Maintenance
235-190-102 Business and Residence Non-modular Features
OP:CLK

Software Release: 5E14 and later
Command Group: NOCHK
Application: 5,3B
Type: Input

1. PURPOSE

Reports the current date and time.

2. FORMAT

OP:CLK;

3. EXPLANATION OF MESSAGE

No variables.

4. SYSTEM RESPONSE

PF = Printout follows. Followed by OP:CLK output message.

5. REFERENCES

Input Message(s):

    SET:CLK-5

Output Message(s):

    OP:CLK
    SET:CLK
OP:CONFIRM

Software Release: 5E14 and later
Command Group: ADMIN
Application: 5
Type: Input

1. PURPOSE

Request to display the text, activation status and default confirmation prompt for a specified Master Control Center (MCC) page and poke combination. This message is valid only for page and poke combinations that have a default (system-defined) confirmation prompt.

2. FORMAT

OP:CONFIRM,PAGE=a,POKE=b;

3. EXPLANATION OF MESSAGE

a = MCC page number. Refer to the E-CONF-POKES appendix in the Appendixes section of the Input Messages manual.

b = Message poke number. Refer to the E-CONF-POKES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

NG = No good. May also include:
   - INVALID PAGE AND POKE COMBINATION = The page and poke combination is not valid, or is a combination that does not have a default confirmation prompt.
   - SPECIAL FEATURE NOT AVAILABLE = Secured feature bit for the feature is not turned on.

PF = Printout follows.

5. REFERENCES

Input Message(s):

SET:CONFIRM

Input Appendix(e)s:

APP:E-CONF-POKES

Output Message(s):

OP:CONFIRM

Other Manual(s):
235-190-115 Local and Toll System Features
OP:CONV-A

Software Release: 5E14 only
Command Group: TRKLN
Application: 5
Type: Input

1. PURPOSE

Requests a conversion (translation) for a particular trunk, line, data link, or Operator Services Position System port (OSPSPORT). This message is used to obtain information about a trunk, line, data link, or OSPSPORT.

These units can be specified using either the terminal or logical identifier most suitable. The information can consist of any combination of the following:
- Equipment number.
- Directory number (DN).
- Trunk group and member number (TKGMN).
- Multi-line hunt group and member number (MLHG).
- Digital subscriber line (DSL).
- DSL group and member number (DSLGM).
- DSL-channel (CH).
- Logical port (PORT).
- Primary rate interface group (PRIGRP).
- IDCU Extended operations channel (IDCUEOC).
- IDCU Time-slot management channel (IDCUTMC) and the physical location.
- DNU-S Extended operations channel (DNUSEOC).
- DNU-S Time-slot management channel (DNUSTMC) and the physical location.
- Logical test port number (LTP).
- Scan point number (SPN).

The physical location is the actual location (aisle, bay, and so forth) of the trunk, line, data link, or OSPSPORT within the building. Since SLENs, INENs, and ILENs are not physically located in the office, no physical location information is available for SLENs, INENs, and ILENs.

For shared DNs (SHDN), the DN or MLHG specified must be a primary DN or MLHG, or the request is rejected.

Format 1 applies to all DSL lines, data links, and OSPSPORTs for which channel type is an option.

Format 2 applies to DNUSEOC, IDCUEOC, LEN, LTP, NEN, PRIGRP, PSUEN, recorded announcement frame (RAF), service announcement system (SAS), SLEN, SPN, TEN, TKGMN, DNUSTMC, and IDCUTMC. which do not allow channel type as an option.

2. FORMAT

[1] OP:CONV,a[,CH=y1];
[2] OP:CONV,b;

3. EXPLANATION OF MESSAGE

Note: Refer to the Acronym section of the Input Messages manual for the full expansion of acronyms shown in the format.

a = Equipment number or identifier. Valid value(s):
<table>
<thead>
<tr>
<th>b</th>
<th>Equipment number or identifier. Valid value(s):</th>
</tr>
</thead>
<tbody>
<tr>
<td>c</td>
<td>Data link (group) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.</td>
</tr>
<tr>
<td>d</td>
<td>Relative link (member) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.</td>
</tr>
<tr>
<td>e</td>
<td>Telephone number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.</td>
</tr>
<tr>
<td>f</td>
<td>Operator service center number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.</td>
</tr>
<tr>
<td>g</td>
<td>Relative position number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.</td>
</tr>
<tr>
<td>h</td>
<td>Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.</td>
</tr>
<tr>
<td>i</td>
<td>Digital line and trunk unit (DLTU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.</td>
</tr>
<tr>
<td>j</td>
<td>Digital facility interface (DFI) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.</td>
</tr>
<tr>
<td>k</td>
<td>Channel number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual. If this is a DFI-2, channels 1-24 are associated with facility T1 A and channels 25-48 are associated with facility T1 B. Otherwise, there is only one facility.</td>
</tr>
<tr>
<td>l</td>
<td>Member number of the MLHG or line time slot bridging (LTSB) line. For MLHG the DN specified should be the main DN for the group and the member number specifies which member of the group is converted. For LTSB a member number of ‘1’ converts the lead line, and a member number of ‘2’ converts the associate line. If no member number is specified for 1-DN LTSB, both lines are converted. If no member number is specified for 2-DN LTSB, the line associated with the DN</td>
</tr>
</tbody>
</table>
entered is converted.

\( m \) = PSU channel group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

\( n \) = PSU channel group member number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

\( o \) = EIS identifier (ID) on which the CPDL terminates. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

\( p \) = External data link (member) number relative to the EIS. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

\( q \) = IDCU number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

\( r \) = Remote terminal (RT) number or IDCU digital signal level 1 (DS1) serving PUB43801 number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

\( s \) = RT line number or PUB43801 channel. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

\( t \) = Line unit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

\( u \) = Line group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

\( v \) = Line card number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

\( w \) = Logical port number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

\( x \) = Logical port type. Valid value(s):

- BFG
- ISDN
- OTHER
- PACKET

\( y \) = Multi-line hunt group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

\( z \) = Hunt group member number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

\( a^1 \) = Force management center number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

\( b^1 \) = IDCUEOC ID number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

\( c^1 \) = Grid number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
\(d^1\) = Switch board number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

\(e^1\) = Switch number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

\(f^1\) = Level number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

\(g^1\) = Logical test port number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

\(h^1\) = Digital networking unit - synchronous optical network (SONET) (DNU-S) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

\(i^1\) = Data group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

\(j^1\) = Synchronous transport signal (STS) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

\(k^1\) = Virtual tributary group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

\(l^1\) = PRI group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

\(m^1\) = DSU2-RAF or SAS unit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

\(n^1\) = Announcement port number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

\(o^1\) = Digital carrier line unit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

\(p^1\) = Unit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

\(q^1\) = Service group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

\(r^1\) = Board number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

\(s^1\) = Scan point number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

\(t^1\) = Trunk unit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

\(u^1\) = Channel board number.

Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
v\(^1\) = Circuit number. Refer to the APP: RANGES appendix in the Appendixes section of the Input Messages manual.

w\(^1\) = Trunk group number. Refer to the APP: RANGES appendix in the Appendixes section of the Input Messages manual.

x\(^1\) = Trunk member number. Refer to the APP: RANGES appendix in the Appendixes section of the Input Messages manual.

y\(^1\) = Channel identifier; D (default), B1, or B2. If the default or the D-channel is specified, the entire DSL is identified. If a channel other than the D-channel is specified, only that channel is identified.

z\(^1\) = Digital signal level 0 (DS0). Refer to the APP: RANGES appendix in the Appendixes section of the Input Messages manual.

a\(^2\) = Line board number. Refer to the APP: RANGES appendix in the Appendixes section of the Input Messages manual.

b\(^2\) = Line circuit number. Refer to the APP: RANGES appendix in the Appendixes section of the Input Messages manual.

c\(^2\) = PSU unit number. Refer to the APP: RANGES appendix in the Appendixes section of the Input Messages manual.

d\(^2\) = PSU shelf number. Refer to the APP: RANGES appendix in the Appendixes section of the Input Messages manual.

e\(^2\) = PSU channel group number. Refer to the APP: RANGES appendix in the Appendixes section of the Input Messages manual.

f\(^2\) = PSU channel group member number. Refer to the APP: RANGES appendix in the Appendixes section of the Input Messages manual.

g\(^2\) = Line group controller number. Refer to the APP: RANGES appendix in the Appendixes section of the Input Messages manual.

h\(^2\) = Integrated services line unit (ISLU) number. Refer to the APP: RANGES appendix in the Appendixes section of the Input Messages manual.

i\(^2\) = Integrated services line unit model 2 (ISLU2) number. Refer to the APP: RANGES appendix in the Appendixes section of the Input Messages manual.

j\(^2\) = Access interface unit (AIU) number. Refer to the APP: RANGES appendix in the Appendixes section of the Input Messages manual.

k\(^2\) = AIU pack number. Refer to the APP: RANGES appendix in the Appendixes section of the Input Messages manual.

l\(^2\) = AIU circuit number. Refer to the APP: RANGES appendix in the Appendixes section of the Input Messages manual.

m\(^2\) = IDCUTMC ID number. Refer to the APP: RANGES appendix in the Appendixes section of the Input Messages manual.

n\(^2\) = DNUSEOC ID number. Refer to the APP: RANGES appendix in the Appendixes section of the Input Messages manual.
= DNUSTMC ID number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

\[ p^2 \] = SONET termination equipment (STE) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

\[ q^2 \] = Virtual tributary member number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

\[ PF \] = Printout follows. The request has been accepted and the OP:CONV output message follows.

\[ RL \] = Retry later. The request has been denied, probably due to system load. The input message OP:JOBSTATUS can be used to determine if the RL was because the maximum number of request jobs are active.

5. REFERENCES

Input Message(s):

\[ \text{CNVT:RT} \]
\[ \text{OP:JOBSTATUS} \]

Output Message(s):

\[ \text{OP:CONV} \]

Input Appendix(es):

\[ \text{APP:RANGES} \]
OP:CONV-B

**Software Release:** 5E15 only
**Command Group:** TRKLN
**Application:** 5
**Type:** Input

1. **PURPOSE**

Requests a conversion (translation) for a particular trunk, line, data link, or operator services position system port (OSPSPORT). This message is used to obtain information about a trunk, line, data link, or OSPSPORT.

These units can be specified using either the terminal or logical identifier most suitable. The information can consist of any combination of the following:
- Equipment number.
- Directory number (DN).
- Trunk group and member number (TKGMN).
- Multi-line hunt group and member number (MLHG).
- Digital subscriber line (DSL).
- DSL group and member number (DSLGM).
- DSL-channel (CH).
- Logical port (PORT).
- Primary rate interface group (PRIGRP).
- IDCU extended operations channel (IDCUEOC).
- IDCU time-slot management channel (IDCUTMC) and the physical location.
- DNU-S extended operations channel (DNUSEOC).
- DNU-S time-slot management channel (DNUSTMC) and the physical location.
- Logical test port number (LTP).
- Scan point number (SPN).
- Optical Interface unit (OIU).

The physical location is the actual location (aisle, bay, and so forth) of the trunk, line, data link, or OSPSPORT within the building. PLTENs have 2 physical locations, one for the active side and one for the standby side. Since SLENs, INENs, and ILENs are not physically located in the office, no physical location information is available for SLENs, INENs, and ILENs.

For shared DNs (SHDN), the DN or MLHG specified must be a primary DN or MLHG, or the request is rejected.

Format 1 applies to all DSL lines, data links, and OSPSPORTs for which channel type is an option.

Format 2 applies to DNUSEOC, IDCUEOC, line equipment number (LEN), LTP, network equipment number (NEN), PRIGRP, packet switching unit equipment number (PSUEN), PLTEN, recorded announcement frame (RAF), service announcement system (SAS), SLEN, SPN, TEN, TKGMN, DNUSTMC, OIU and IDCUTMC, which do not allow channel type as an option.

2. **FORMAT**

[1]  OP:CONV,a[,CH=y];

[2]  OP:CONV,b;

3. **EXPLANATION OF MESSAGE**

Refer to the Acronym section of the Input Messages manual for the full expansion of acronyms shown in the format.
### a

= Equipment number or identifier. Valid value(s):

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>AP=c-d</td>
<td>HOBICR=c-d</td>
</tr>
<tr>
<td>AQ=c-d</td>
<td>HOBICV=c-d</td>
</tr>
<tr>
<td>AQST=e</td>
<td>HOBIS=c-d</td>
</tr>
<tr>
<td>AQM=c-d</td>
<td>ILEN=h-q-r-s</td>
</tr>
<tr>
<td>BST=f-g</td>
<td>LINEN=h-h^1-r-s</td>
</tr>
<tr>
<td>DASC=c-d</td>
<td>LCKEN=h-i^2-u-a^2-b^2</td>
</tr>
<tr>
<td>DEN=h-i-j-k</td>
<td>LPORF=j-w-x</td>
</tr>
<tr>
<td>DSLGM=h-m-n</td>
<td>MISLNK=c-d</td>
</tr>
<tr>
<td>EIS=o-p</td>
<td>MLHG=v-z</td>
</tr>
<tr>
<td>GAF=a^1</td>
<td>OAPF=a^1</td>
</tr>
<tr>
<td>OAPO=f</td>
<td>OPT=f-g</td>
</tr>
<tr>
<td>OPT=f-g</td>
<td>PKTDN=e</td>
</tr>
<tr>
<td>PORT=h-w</td>
<td>RAS=c-d</td>
</tr>
<tr>
<td>RTRS=c-d</td>
<td>XDB=c-d</td>
</tr>
<tr>
<td>XDPF=a^1</td>
<td>XDPO=f</td>
</tr>
</tbody>
</table>

### b

= Equipment number or identifier. Valid value(s):

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>AIUEN</td>
<td>h-j^2-k^2-l^2</td>
</tr>
<tr>
<td>DNUSEOC</td>
<td>h-l-r-n^2</td>
</tr>
<tr>
<td>DNUSTMC</td>
<td>h-h-r-o^2</td>
</tr>
<tr>
<td>IDCUEOC</td>
<td>h-q-r-b^1</td>
</tr>
<tr>
<td>IDCUTMC</td>
<td>h-q-r-m^2</td>
</tr>
<tr>
<td>LEN=h-t-c^1-d^1-e^1-f^1</td>
<td>LTP=h-g</td>
</tr>
<tr>
<td>NEN=h-h^1-i^1-p^2-j^1-k^1-q^2-z^1</td>
<td>NEN=h-h^1-i^1-p^2-j^1-k^1-q^2-z^1</td>
</tr>
<tr>
<td>OIUEC=h-a^3-b^3-c^3-d^3-e^3-r^3-u^2</td>
<td>OIUEC=h-a^3-b^3-c^3-d^3-e^3-r^3-u^2</td>
</tr>
<tr>
<td>PLTEN</td>
<td>h-r^2-s^2-t^2-u^2</td>
</tr>
<tr>
<td>PRIGRP=1</td>
<td>PSUN=h-c^2-d^2-e^2-f^2</td>
</tr>
<tr>
<td>RAF=h-m^1-n^1</td>
<td>SAS=h-m^3-n^3</td>
</tr>
<tr>
<td>SLEN=h-o^1-r-s</td>
<td></td>
</tr>
<tr>
<td>SPN=h-p^1-q^1-r^1-s^1</td>
<td></td>
</tr>
<tr>
<td>TEN=h-t^1-q^1-u^1-v^1</td>
<td></td>
</tr>
<tr>
<td>TKGMN=w^1-x^1</td>
<td></td>
</tr>
<tr>
<td>VANA=h-v^2</td>
<td></td>
</tr>
<tr>
<td>VBRI=h-w^2</td>
<td></td>
</tr>
<tr>
<td>VTRK=h-x^2-y^2</td>
<td></td>
</tr>
<tr>
<td>VNAR=h-z^2</td>
<td></td>
</tr>
</tbody>
</table>

### c

= Data link (group) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

### d

= Relative link (member) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

### e

= Telephone number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

### f

= Operator service center number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

### g

= Relative position number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

### h

= Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

### i

= Digital line and trunk unit (DLTU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

### j

= Digital facility interface (DFI) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

### k

= Channel number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual. If this is a DFI-2, channels 1-24 are associated with facility T1 A and channels 25-48 are associated with facility T1 B. Otherwise, there is only one facility.
= Member number of the MLHG or line time slot bridging (LTSB) line. For MLHG the DN specified should be the main DN for the group and the member number specifies which member of the group is converted. For LTSB a member number of '1' converts the lead line, and a member number of '2' converts the associate line. If no member number is specified for 1-DN LTSB, both lines are converted. If no member number is specified for 2-DN LTSB, the line associated with the DN entered is converted.

m = PSU channel group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

n = PSU channel group member number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

o = EIS identifier (ID) on which the CPDL terminates. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

p = External data link (member) number relative to the EIS. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

q = IDCU number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

r = Remote terminal (RT) number or IDCU digital signal level 1 (DS1) serving PUB43801 number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

s = RT line number or PUB43801 channel. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

t = Line unit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

u = Line group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

v = Line card number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

w = Logical port number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

x = Logical port type. Valid value(s):

<table>
<thead>
<tr>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>BFG</td>
</tr>
<tr>
<td>ISDN</td>
</tr>
<tr>
<td>OTHER</td>
</tr>
<tr>
<td>PACKET</td>
</tr>
</tbody>
</table>

y = Multi-line hunt group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

z = Hunt group member number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

a = Force management center number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
b¹ = IDCUEOC ID number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

c¹ = Grid number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

d¹ = Switch board number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

e¹ = Switch number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

f¹ = Level number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

g¹ = Logical test port number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

h¹ = Digital networking unit - synchronous optical network (SONET) (DNU-S) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

i¹ = Data group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

j¹ = Synchronous transport signal (STS) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

k¹ = Virtual tributary group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

l¹ = PRI group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

m¹ = DSU2-RAF or SAS unit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

n¹ = Announcement port number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

o¹ = Digital carrier line unit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

p¹ = Unit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

q¹ = Service group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

r¹ = Board number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

s¹ = Scan point number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

t¹ = Trunk unit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input
Messages manual.

u

= Channel board number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

v

= Circuit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

w

= Trunk group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

x

= Trunk member number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

y

= Channel identifier; D (default), B1, or B2. If the default or the D-channel is specified, the entire DSL is identified. If a channel other than the D-channel is specified, only that channel is identified.

z

= Digital signal level 0 (DS0). Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

a

= Line board number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

b

= Line circuit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

c

= PSU unit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

d

= PSU shelf number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

e

= PSU channel group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

f

= PSU channel group member number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

g

= Line group controller number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

h

= Integrated services line unit (ISLU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

i

= Integrated services line unit model 2 (ISLU2) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

j

= Access interface unit (AIU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

k

= AIU pack number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

l

= AIU circuit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
\( m^2 \) = IDCUTMC ID number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

\( n^2 \) = DNUSEOC ID number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

\( o^2 \) = DNUSTMC ID number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

\( p^2 \) = SONET termination equipment (STE) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

\( q^2 \) = Virtual tributary member number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

\( r^2 \) = PLTU number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

\( s^2 \) = PCT facility interface (PCTFI) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

\( t^2 \) = Tributary number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

\( u^2 \) = Channel number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

\( v^2 \) = Virtual analog line number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

\( w^2 \) = Virtual BRI line number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

\( x^2 \) = Virtual trunk facility number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

\( y^2 \) = Virtual trunk channel number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

\( z^2 \) = Virtual network announcement resource number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

\( a^3 \) = OIU number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

\( b^3 \) = Protection group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

\( c^3 \) = STM-1 number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

\( d^3 \) = High order virtual container number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

\( e^3 \) = Low order virtual container group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
f₃ = Low order virtual container member number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

PF = Printout follows. The request has been accepted and the OP:CONV output message follows.

RL = Retry later. The request has been denied, probably due to system load. The input message OP:JOBSTATUS can be used to determine if the RL was because the maximum number of request jobs are active.

5. REFERENCES

Input Message(s):

   CNVT:RT
   OP:JOBSTATUS

Output Message(s):

   OP:CONV

Input Appendix(es):

   APP:RANGES
OP:CONV-C

Software Release: 5E16(1) and later
Command Group: TRKLN
Application: 5
Type: Input

1. PURPOSE

Requests a conversion (translation) for a particular trunk, line, data link, or operator services position system port (OSPSPORT). This message is used to obtain information about a trunk, line, data link, or OSPSPORT.

These units can be specified using either the terminal or logical identifier most suitable. The information can consist of any combination of:
- Equipment number.
- Directory number (DN).
- Trunk group and member number (TKGMN).
- Multi-line hunt group (MLHG) and member number.
- Digital subscriber line (DSL).
- DSL group and member number (DSLGM).
- DSL-channel (CH).
- Logical port (PORT).
- Primary rate interface group (PRIGRP).
- IDCU extended operations channel (IDCUEOC).
- IDCU time-slot management channel (IDCUTMC) and the physical location.
- DNUS extended operations channel (DNUSEOC).
- DNU-S time-slot management channel (DNUSTMC) and the physical location.
- Logical test port (LTP) number.
- Scan point number (SPN).
- Optical interface unit (OIU).

The physical location is the actual location (aisle, bay, and so forth) of the trunk, line, data link, or OSPSPORT within the building. PLTENs have 2 physical locations, one for the active side and one for the standby side. Since SLENs, INENs, and ILENs are not physically located in the office, no physical location information is available for SLENs, INENs, and ILENs.

For shared DNs (SHDN), the DN or MLHG specified must be a primary DN or MLHG, or the request is rejected.

Format 1 applies to all DSL lines, data links, and OSPSPORTs for which channel type is an option.

Format 2 applies to ATM packet pipe equipment number (ATMPP), DNUSEOC, IDCUEOC, line equipment number (LEN), LTP, network equipment number (NEN), PRIGRP, packet switching unit equipment number (PSUEN), PLTEN, recorded announcement frame (RAF), service announcement system (SAS), SLEN, SPN, TEN, TKGMN, DNUSTMC, OIUSECN and IDCUTMC which do not allow channel type as an option.

2. FORMAT

[1] OP:CONV, a[, CH=y 1 ];

[2] OP:CONV, b;

3. EXPLANATION OF MESSAGE

Refer to the Acronym section of the Input Messages manual for the full expansion of acronyms shown in the format.
a

= Equipment number or identifier. Valid value(s):

- AP=c-d
- AQ=c-d
- AQEST=e
- AQM=c-d
- BST=f-g
- DASC=c-d
- DEN=h-i-j-k
- DN=e[-l]
- DSLGM=h-c^2-m-n
- EIS=o-p
- HOBICR=c-d
- HOBICV=c-d
- HOBIS=c-d
- ILEN=h-q-r-s
- INEN=h-h^1-r-s
- LCEN=h-h^2-g^2-v
- LCKEN=h-i^2-u-a^2-b^2
- LPORT=j-w-x
- MISLNK=c-d
- MLHG=y-z
- OAPF=a^1
- OAPO=f
- OPT=f-g
- PKTDN=e
- PORT=h-w
- RAS=c-d
- RTRS=c-d
- XDB=c-d
- XDPF=a^1
- XDPO=f

b

= Equipment number or identifier. Valid value(s):

- AIUEN=h-j^2-k^2-l^2
- ATMPP=h-c^2-f^3-g^3
- DNUSEOC=h-h^1-r-n^2
- DNUSTMC=h-h^1-r-o^2
- IDCUEOC=h-q-r-b^1
- IDCUTMC=h-q-r-m^2
- LEN=h-t-c^1-d^1-e^1-f^1
- LIF=h-g^1
- NEN=h-h^1-l^1-p^2-j^1-k^1-q^2-z^1
- OIUEN=h-z^2-a^3-b^3-c^3-k^1-q^2-u^2
- PLTEN=h-r^2-s^2-t^2-u^2
- PRIGRP=l^1
- PSUEN=h-c^2-d^2-e^2-f^2
- RAF=h-m^1-n^1
- SAS=h-m^1-n^1
- SLEN=h-o^1-r-s
- SPN=h-p^1-q^1-r^1-s^1
TEN = h-t\(^1\)q\(^1\)u\(^1\)v\(^1\)
TKGMN = w\(^1\)x\(^1\)
VANA = h\(^v\)\(^2\)
VBRI = h\(^w\)\(^2\)
VTRK = h\(^x\)\(^2\)y\(^2\)

\(c\) = Data link (group) number. Refer to the APP: RANGES appendix in the Appendixes section of the Input Messages manual.

\(d\) = Relative link (member) number. Refer to the APP: RANGES appendix in the Appendixes section of the Input Messages manual.

\(e\) = Telephone number. Refer to the APP: RANGES appendix in the Appendixes section of the Input Messages manual.

\(f\) = Operator service center number. Refer to the APP: RANGES appendix in the Appendixes section of the Input Messages manual.

\(g\) = Relative position number. Refer to the APP: RANGES appendix in the Appendixes section of the Input Messages manual.

\(h\) = Switching module (SM) number. Refer to the APP: RANGES appendix in the Appendixes section of the Input Messages manual.

\(i\) = Digital line and trunk unit (DLTU) number. Refer to the APP: RANGES appendix in the Appendixes section of the Input Messages manual.

\(j\) = Digital facility interface (DFI) number. Refer to the APP: RANGES appendix in the Appendixes section of the Input Messages manual.

\(k\) = Channel number. Refer to the APP: RANGES appendix in the Appendixes section of the Input Messages manual. If this is a DFI-2, channels 1-24 are associated with facility T1 A and channels 25-48 are associated with facility T1 B. Otherwise, there is only one facility.

\(l\) = Member number of the MLHG or line time slot bridging (LTSB) line. For MLHG the DN specified should be the main DN for the group and the member number specifies which member of the group is converted. For LTSB a member number of ‘1’ converts the lead line, and a member number of ‘2’ converts the associate line. If no member number is specified for 1-DN LTSB, both lines are converted. If no member number is specified for 2-DN LTSB, the line associated with the DN entered is converted.

\(m\) = PSU channel group number. Refer to the APP: RANGES appendix in the Appendixes section of the Input Messages manual.

\(n\) = PSU channel group member number. Refer to the APP: RANGES appendix in the Appendixes section of the Input Messages manual.

\(o\) = EIS identifier (ID) on which the CPDL terminates. Refer to the APP: RANGES appendix in the Appendixes section of the Input Messages manual.

\(p\) = External data link (member) number relative to the EIS. Refer to the APP: RANGES appendix in the Appendixes section of the Input Messages manual.

\(q\) = IDCU number. Refer to the APP: RANGES appendix in the Appendixes section of the Input Messages manual.
Messages manual.

r = Remote terminal (RT) number or IDCU digital signal level 1 (DS1) serving PUB43801 number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

s = RT line number or PUB43801 channel. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

t = Line unit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

u = Line group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

v = Line card number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

w = Logical port number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

x = Logical port type. Valid value(s):

BFG
ISDN
OTHER
PACKET

y = Multi-line hunt group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

z = Hunt group member number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

a¹ = Force management center number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

b¹ = IDCUEOC ID number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

c¹ = Grid number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

d¹ = Switch board number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

e¹ = Switch number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

f¹ = Level number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

g¹ = Logical test port number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

h¹ = Digital networking unit - synchronous optical network (SONET) (DNU-S) number. Refer to the
APP:RANGES appendix in the Appendixes section of the Input Messages manual.

i
= Data group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

j
= Synchronous transport signal (STS) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

k
= Virtual tributary group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

l
= PRI group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

m
= DSU2-RAF or SAS unit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

n
= Announcement port number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

o
= Digital carrier line unit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

p
= Unit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

q
= Service group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

r
= Board number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

s
= Scan point number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

t
= Trunk unit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

u
= Channel board number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

v
= Circuit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

w
= Trunk group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

x
= Trunk member number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

y
= Channel identifier; D (default), B1, or B2. If the default or the D-channel is specified, the entire DSL is identified. If a channel other than the D-channel is specified, only that channel is identified.

z
= Digital signal level 0 (DS0). Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
= Line board number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

= Line circuit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

= PSU unit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

= PSU shelf number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

= PSU channel group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

= PSU channel group member number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

= Line group controller number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

= Integrated services line unit (ISLU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

= Integrated services line unit model 2 (ISLU2) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

= Access interface unit (AIU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

= AIU pack number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

= AIU circuit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

= IDCUTMC ID number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

= DNUSEOC ID number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

= DNUSTMC ID number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

= SONET termination equipment (STE) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

= Virtual tributary member number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

= PLTU number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

= PCT facility interface (PCTFI) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
t² = Tributary number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

u² = Channel number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

v² = Virtual analog line number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

w² = Virtual BRI line number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

x² = Virtual trunk facility number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

y² = Virtual trunk channel number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

z² = OIU number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

a³ = Protection group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

b³ = OC-3 STE number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

c³ = STS level 1 (STS-1) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

f³ = Link number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

g³ = Virtual connection identifier (VCID) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

PF = Printout follows. The request has been accepted and the OP:CONV output message follows.

RL = Retry later. The request has been denied, probably due to system load. The input message OP:JOBSTATUS can be used to determine if the RL was because the maximum number of request jobs are active.

5. REFERENCES

Input Message(s):

CNVT:RT
OP:JOBSTATUS

Output Message(s):
OP : CONV

Input Appendix(es):

APP : RANGES
1. PURPOSE

Requests that translation information for a particular circuit, from its external identifier to its internal circuit name, be output.

The translation from external identifier to internal circuit name supports only the switching module (SM) circuits. Dual link interface (DLI)/network link interfaces (NLIs) are considered part of the communication module (CM), and are not supported. Remote link interfaces (RLIs) are supported because they are SM circuits.

For external to internal translation, the output is the circuit's internal circuit name in hexadecimal format.

2. FORMAT

OP:CONV,EXT,a;

3. EXPLANATION OF MESSAGE

Note: Refer to the Acronym section of the Output Messages manual for the full expansion of acronyms shown in the format.

a = Valid value(s):

<p>| AIU=b-b^4 | NDFI=b-n-o | PMU=b-r-v^1 |
| AIUCOMDAC=b-c^3-d^3 | IDCU=b-x-k | PROTO=b-j-k |
| AIULC=b-c^3-e^3 | IDCUELI=b-x-d | PSIUCOM=b-w^1-k |
| AIURG=b-c^3-f^3 | IDCUEOC=b-x-y-z | PSUPIDB=b-w^1-x^1-e^1 |
| AIUTSRGP=b-c^3-d^3-g^3 | IDCUPIDB=b-x-e^1 | PSUPH=b-w^1-x^1-y^1 |
| ALNK=b-c-d-e-f | IDCUTMC=b-x-y-w | RAF=b-z^1 |
| ALIT=b-j-k-l | IFAC=b-x-f^1 | RAU=b |
| ASC=b | ISLUCC=b-g^3-i^1 | RCL=b-n-o-b^1 |
| BTSR=b | ISLUC=b-g^3-j^1 | RCLK=b-a^2 |
| CDFI=b-n-o | ISLUHLSC=b-g^1-k-h^1 | RCOSC=b-b^2 |
| CDI=b-p-k | ISLULDB=b-g^1-x^2-y^2 | RCOX=b-c^2 |
| DCLU=b-q-k | ISLULGC=b-g^1-k^1 | RREF=b-d^2 |
| DCTUCOM=b-r | ISLULKT=b-g^1-x^2-y^2-z^2 | RVPT=b-c^1-k-g^2 |
| DCTUPORT=b-r-s | ISLULGC=b-g^1-k | RCX=b-e^2 |
| DFI=b-n-o | RDFI=b-n-o | RDT=b-n-o |
| DFIH=b-u-v | RLI=b-f^2 | SAS=b-m^2 |
| DFTAC=b-j-k-s | ISRCLK=b-g^1-k^1 | RREF=b-d^2 |
| DIST=b-j-k-v^2 | SLLMAN=b-g^1-k-n^1 | RTFAC=h^3-i^3 |
| DNUSCC=b-n^2-l^1 | SLLPIDb=b-g^1-m^1 | RVPT=b-c^1-k-g^2 |
| DNUSCD=b-n^2-g^2-p^2 | SLLRG=b-g^1-k | SAS=b-m^2 |
| DNUSEOC=b-n^2-y-z | ISTF=b-o^1 | SDFI=b-q-h^2 |
| DNUSTMC=b-n^2-y-w | LDSF=b-l^2 | SCAN=b-j-k-w^2 |</p>
<table>
<thead>
<tr>
<th>DS1SFAC=b-n^2-o^2-s^2-t^2-k^3-l^2</th>
<th>LEN=b-c-d-e-g-i</th>
<th>SFI=b-n^2-o^2-q^2</th>
</tr>
</thead>
<tbody>
<tr>
<td>EAN=b-r</td>
<td>LUCHAN=b-c-k-p^1-q^1</td>
<td>SLIM=b-j-k-b^3</td>
</tr>
<tr>
<td>EOC=h^3-z</td>
<td>LUCHBD=b-c-k-p^1</td>
<td>ECISTE=b-n^2-o^2-s^2</td>
</tr>
<tr>
<td>FAC=b-n-a^1-b^1</td>
<td>LUCOM=b-c-k</td>
<td>STSFAC=b-n^2-o^2-s^2-t^2</td>
</tr>
<tr>
<td>GDSF=b-a^3</td>
<td>LUHLSC=b-c-k-h^1</td>
<td>TAC=b-p-k</td>
</tr>
<tr>
<td>GDSUCOM=b-l^2-k</td>
<td>MA=b-j-k-r^1</td>
<td>TEN=b-p-k-m-t</td>
</tr>
<tr>
<td>GDXACC=b-c-k</td>
<td>MAB=b-j-k-s^1</td>
<td>TMC=h^3-w</td>
</tr>
<tr>
<td>GDXC=b-j-k-l</td>
<td>MCTSI=b-t^1</td>
<td>TMUX=b-n^2-o^2-t^2</td>
</tr>
<tr>
<td>GDXCON=b-c-k</td>
<td>MSUCOM=b-j-k</td>
<td>TTFCOM=a-i^2-k-j^2</td>
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<tr>
<td>GRID=b-c-d</td>
<td>MTB=b-j-k-r^1-j^3</td>
<td>TUCHBD=b-p-k-m</td>
</tr>
<tr>
<td>GRIDBD=b-c-d-e</td>
<td>MTIB=u^1</td>
<td>UCONF=b-i^2-k-k^2</td>
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<td></td>
<td>MTIBAX=b-j-k-p^1</td>
<td>UMBIL=b-m3-n3</td>
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<tr>
<td></td>
<td>PCTDX=b-o^3-p^3</td>
<td>UTD=b-c^1-k-h</td>
</tr>
<tr>
<td></td>
<td></td>
<td>UTG=b-c^1-k-k^2</td>
</tr>
<tr>
<td></td>
<td></td>
<td>VTIFAC=b-n^2-o^2-s^2-t^2-k^3-l^2</td>
</tr>
</tbody>
</table>

\( b \) = SM number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

\( c \) = Line unit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

\( d \) = Line unit grid number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

\( e \) = Grid board number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

\( f \) = Line unit A-link number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

\( g \) = Grid board switch number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

\( h \) = UTD number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

\( i \) = Grid board switch level number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

\( j \) = Metallic service unit (MSU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

\( k \) = Service group (SG) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

\( l \) = MSU board slot number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

\( m \) = Trunk equipment number (TEN) board number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
n = Digital line and trunk unit (DLTU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

o = Digital facilities interface (DFI) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

p = Trunk unit (TU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

q = DCLU number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

r = DCTU number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

s = Circuit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

t = TEN circuit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

u = Remote integrated service line unit (RISLU) DLTU number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

v = DFIH number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

w = TMC number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

x = Integrated digital circuit unit (IDCU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

y = RT number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

z = EOC number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

a1 = Remote switching module (RSM) DFIH number, inter-RSM CDFI number, or inter-office trunk DFI number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

b1 = FAC number. The FAC number is the T1 facility number on a remote DFI (RDFI), CDFI, or DFI (0-1).

c1 = Local digital service unit (LDSU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

d1 = Electrical line interface (ELI) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

e1 = PIDB or direct DPIDB pair number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

f1 = Integrated facility (IFAC) number. Refer to the APP:RANGES appendix in the Appendixes section
of the Input Messages manual.

\( g^1 \) = ISLU number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

\( h^1 \) = High-level service circuit (HLSC) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

\( i^1 \) = Common controller number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

\( j^1 \) = Common data number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

\( k^1 \) = Line group controller number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

\( l^1 \) = Line card number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

\( m^1 \) = PIDB pair number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

\( n^1 \) = Access network board. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

\( o^1 \) = ISTF unit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

\( p^1 \) = Channel board number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

\( q^1 \) = Channel number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

\( r^1 \) = Metallic access board number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

\( s^1 \) = MAB board number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

\( t^1 \) = MCTSI unit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

\( u^1 \) = MTIB number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

\( v^1 \) = PMU circuit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

\( w^1 \) = PSU number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

\( x^1 \) = Shelf number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
y\(^1\) = Protocol handler number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

z\(^1\) = RAF unit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

a\(^2\) = RCLK side. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

b\(^2\) = RCOSC side. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

c\(^2\) = RCOXC side. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

d\(^2\) = RCREF to be stored. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

e\(^2\) = RCXC side. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

f\(^2\) = RLI number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

g\(^2\) = RVPT circuit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

h\(^2\) = SLC\textsuperscript{®} 96 digital facility interface (SDFI) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

i\(^2\) = Global digital service unit (GDSU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

j\(^2\) = TTFCOM board number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

k\(^2\) = Digital service unit (DSU) board number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

l\(^2\) = LDSF number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

m\(^2\) = SAS number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

n\(^2\) = Digital Networking Unit - SONET (DNU-S) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

o\(^2\) = Data Group (DG) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

p\(^2\) = Common data number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

q\(^2\) = SFI number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
\[r^2\] = TMUX number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

\[s^2\] = SONET Termination Equipment (STE) facility number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

\[t^2\] = Synchronous Transport Signal (STS) facility number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

\[u^2\] = VT1 number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

\[v^2\] = Distribute board number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

\[w^2\] = Scan point board number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

\[x^2\] = Line group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

\[y^2\] = Line board number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

\[z^2\] = Line circuit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

\[a^3\] = GDSF unit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

\[b^3\] = Subscriber line instrument measuring (SLIM) unit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

\[c^3\] = Access interface unit (AIU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

\[d^3\] = Common data and control controller (COMDAC) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

\[e^3\] = Line pack (LP) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

\[f^3\] = Ring generator (RG) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

\[g^3\] = Timeslot group (TSGRP) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

\[h^3\] = Site identification (SID) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

\[i^3\] = Remote Terminal (RT) Facility (FAC) circuit. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

\[j^3\] = Metallic access test bus number. Refer to the APP:RANGES appendix in the Appendixes section
of the Input Messages manual.

k\(^3\) = Virtual tributary group (VTG) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

l\(^3\) = Virtual tributary member (VTM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

m\(^3\) = RSM Number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

n\(^3\) = Host umbilical(UMBIL) Number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

o\(^3\) = peripheral control and timing data exchanger unit (PDXU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

p\(^3\) = peripheral control and timing data exchanger (PCTDX) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

NG = No good. The request has been denied. The message form is valid, but the request conflicts with current status.

PF = Printout follows. Followed by the OP:CONV-EXT output message.

RL = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

Output Message(s):

OP: CONV-EXT

Input Appendix(es):

APP: RANGES
1. PURPOSE

Requests that translation information for a particular circuit, from its external identifier to its internal circuit name, be output.

The translation from external identifier to internal circuit name supports only the switching module (SM) circuits. Dual link interface (DLI)/network link interfaces (NLIs) are considered part of the communication module (CM), and are not supported. Remote link interfaces (RLIs) are supported because they are SM circuits.

For external to internal translation, the output is the circuit's internal circuit name in hexadecimal format.

2. FORMAT

   OP:CONV,EXT,a;

3. EXPLANATION OF MESSAGE

Refer to the Acronym section of the Output Messages manual for the full expansion of acronyms shown in the format.

<table>
<thead>
<tr>
<th>a</th>
</tr>
</thead>
<tbody>
<tr>
<td>= Valid value(s):</td>
</tr>
</tbody>
</table>

<p>| AIU=b-b⁴    | IDCUEL=b-x-d⁴ | PMU=b-r-v⁴ |
| AIUCOMDAC=b-c³-d³ | IDCUEC=b-x-y-z | PROTO=b-j-k |
| AIUL=b-c³-e³ | IDCUPID=b-x-e¹ | PSIUCOM=b-w²-k |
| AIULC=b-c³-e³-z² | IDCUTMC=b-x-y-w | PSUPIDDB=b-w¹-x¹-e¹ |
| AIURG=b-c³-f³ | IFAC=b-x-f² | PSUPH=b-w¹-x¹-y¹ |
| AIUTSGRP=b-c³-d³-g³ | ISLUCC=b-g²-i¹ | RAF=b-z¹ |
| ALINK=b-c-d-e-f | ISLUCD=b-g³-j¹ | RAU=b |
| ALIT=b-j-k-l | ISLUHLS=b-g⁴-k-h¹ | RCL=b-n-o-b³ |
| ASC=b       | ISLULBD=b-g²-x²-y² | RCLK=b-a² |
| BTSR=b      | ISLULC=b-g³-k²-l¹ | RCOSC=b-b² |
| CDFI=b-n-o  | ISLULK=b-g³-x²-y²-z² | RCOCX=b-c² |
| CDI=b-p-k   | ISLULGC=b-g¹-k¹ | RREF=b-d² |
| DCLU=b-q-k  | ISLUMAN=b-g¹-k-n¹ | RCX=b-e² |
| DCTUCOM=b-r | ISLUPID=b-g¹-m¹ | RDFI=b-n-o |
| DCTUPORT=b-r-s | ISLURG=b-g³-k | RLI=b-f² |
| DFI=b-n-o   | ISTF=b-o¹ | RRCLK=b-g¹-r¹ |
| DFH=b-u-v   | IWFAC=b-v⁴-o²-w³ | RTFAC=b-h³-i³ |
| DFTAC=b-j-k-s | IWGLI=b-v³-c²-w³ | RVPT=b-c¹-k-g² |
| DIST=b-j-k-v² | INGFACE=b-v³-x³ | SAS=b-m² |
| DNUSCC=b-n²-l¹ | LDSF=b-l² | SCAN=b-j-k-w² |
| DNUSCD=b-n²-o²-p² | LOSU=b-c¹-k | SDFI=b-q-h² |
| DNUSEOC=b-n²-y-z |                      |               |
| DNUSTMC=b-n²-y-w |                      |               |</p>
<table>
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<tr>
<th>DS1SFAC=b-n²-o²-s²-t²-k³-l²</th>
<th>LDSUCOM=b-c²-k</th>
<th>SFI=b-n²-o²-q²</th>
</tr>
</thead>
<tbody>
<tr>
<td>EAN=b-r</td>
<td>LEN=b-c-d-e-g-i</td>
<td>SLIM=b-j-k-b³</td>
</tr>
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<td>EC1STE=b-n²-o²-s²</td>
</tr>
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<td>STSFAC=b-n²-o²-s²-t²</td>
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<td>TAC=b-p-k</td>
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<td>GDXC=b-j-k-l</td>
<td>MAB=b-j-k-s¹</td>
<td>TMUX=b-n²-o²-t²</td>
</tr>
<tr>
<td>GDXCON=b-c-k</td>
<td>MCTSI=b-t¹</td>
<td>TTFCOM=a-²-k-j²</td>
</tr>
<tr>
<td>GRID=b-c-d</td>
<td>MSUCOM=b-j-k</td>
<td>TUCHBD=b-p-k-m</td>
</tr>
<tr>
<td>GRIDBD=b-c-d-e</td>
<td>MTB=b-j-k-r¹-j³</td>
<td>UCONF=b-²-k-k²</td>
</tr>
<tr>
<td>HDFI=b-n-o</td>
<td>MTIB=u¹</td>
<td>UMBIL=b-m³-n3</td>
</tr>
<tr>
<td>IDCU=b-x-k</td>
<td>MTIBAX=b-j-k-p¹</td>
<td>UTD=b-c¹-k-h</td>
</tr>
<tr>
<td></td>
<td>PCTDX=b-o³-p³</td>
<td>UTG=b-c¹-k-k²</td>
</tr>
<tr>
<td></td>
<td>PLTLK=b-r³-s³-t³</td>
<td>VNCR=b-q³</td>
</tr>
<tr>
<td></td>
<td>TRIB=b-r³-s³-u³</td>
<td>VT1FAC=b-n²-o²-s²-t²-k³-l²</td>
</tr>
</tbody>
</table>

b = SM number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

c = Line unit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

d = Line unit grid number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

e = Grid board number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

f = Line unit A-link number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

G = Grid board switch number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

h = UTD number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

i = Grid board switch level number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

j = Metallic service unit (MSU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

k = Service group (SG) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

l = MSU board slot number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

m = Trunk equipment number (TEN) board number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
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o = Digital facilities interface (DFI) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

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q = DCLU number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

r = DCTU number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

s = Circuit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

t = TEN circuit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

u = Remote integrated service line unit (RISLU) DLTU number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

v = DFIH number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

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z = EOC number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

\[a\] = Remote switching module (RSM) DFIH number, inter-RSM CDFI number, or inter-office trunk DFI number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

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\[d\] = Electrical line interface (ELI) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

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i = Common controller number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

j = Common data number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

k = Line group controller number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

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r = Metallic access board number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

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t = MCTSI unit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

u = MTIB number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

v = PMU circuit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

w = PSU number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

x = Shelf number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
y\(^1\) = Protocol handler number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

z\(^1\) = RAF unit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

a\(^2\) = RCLK side. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

b\(^2\) = RCOSC side. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

c\(^2\) = RCOXC side. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

d\(^2\) = RCREF to be stored. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

e\(^2\) = RCXC side. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

f\(^2\) = RLI number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

g\(^2\) = RVPT circuit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

h\(^2\) = SLC\(^\circledR\) 96 digital facility interface (SDFI) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

i\(^2\) = Global digital service unit (GDSU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

j\(^2\) = TTFCOM board number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

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l\(^2\) = LDSF number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

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n\(^2\) = Digital Networking Unit - SONET (DNU-S) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

o\(^2\) = Data Group (DG) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

p\(^2\) = Common data number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

q\(^2\) = SFI number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
Messages manual.

r² = TMUX number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

s² = SONET Termination Equipment (STE) facility number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

t² = Synchronous Transport Signal (STS) facility number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

u² = VT1 number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

v² = Distribute board number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

w² = Scan point board number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

x² = Line group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

y² = Line board number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

z² = Line circuit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

a³ = GDSF unit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

b³ = Subscriber line instrument measuring (SLIM) unit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

c³ = Access interface unit (AIU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

d³ = Common data and control controller (COMDAC) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

e³ = Line pack (LP) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

f³ = Ring generator (RG) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

g³ = Timeslot group (TSGRP) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

h³ = Site identification (SID) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

j³ = Metallic access test bus number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

k³ = Virtual tributary group (VTG) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

l³ = Virtual tributary member (VTM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

m³ = RSM Number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

n³ = Host umbilical(UMBIL) Number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

o³ = peripheral control and timing data exchanger unit (PDXU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

p³ = peripheral control and timing data exchanger (PCTDX) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

q³ = Virtual network conference resource number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

r³ = Peripheral Line and Trunk Unit (PLTU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

s³ = Peripheral Control Facility Interface (PCTFI) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

t³ = Peripheral Control Facility Interface (PCTFI) Link Side number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

u³ = Peripheral Control Facility Interface Link Tributary (TRIB) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

v³ = Inter-Working Gateway (IWG) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

w³ = Inter-Working Gateway Link Interface (IWGLI) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

x³ = Inter-Working Gateway Facility (IWGFAC) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

NG = No good. The request has been denied. The message form is valid, but the request conflicts with current status.

PF = Printout follows. Followed by the OP:CONV-EXT output message.

RL = Retry later. The request cannot be executed now due to unavailable system resources.
5. REFERENCES

Output Message(s):

OP : CONV–EXT

Input Appendix(es):

APP : RANGES
OP:CONV-EXT-C

**Software Release:** 5E16(1) and later
**Command Group:** SM
**Application:** 5
**Type:** Input

### 1. PURPOSE

Requests that translation information for a particular circuit, from its external identifier to its internal circuit name, be output.

The translation from external identifier to internal circuit name supports only the switching module (SM) circuits. Dual link interface (DLI)/network link interfaces (NLIs) are considered part of the communication module (CM), and are not supported. Remote link interfaces (RLIs) are supported because they are SM circuits.

For external to internal translation, the output is the circuit's internal circuit name in hexadecimal format.

### 2. FORMAT

```
OP:CONV,EXT,a-[,NETINTF=a];
```

### 3. EXPLANATION OF MESSAGE

**Note:** Refer to the Acronym section of the Output Messages manual for the full expansion of acronyms shown in the format.

a = Valid value(s):

- AIU=b-b^4
- AIUOMDAC=b-c^3-d^3
- AIULP=b-c^3-e^3
- AIULC=b-c^3-e^3-z^2
- AIURG=b-c^3-f^3
- AIUTSgrp=b-c^3-d^3-g^3
- ALINK=b-c-d-e-f
- ALIT=b-j-k-l
- ASC=b
- BTSR=b
- CDFI=b-n-o
- CDI=b-p-k
- DCLU=b-q-k
- DCTUCOM=b-r
- DCTUPORT=b-r-s
- DFI=b-n-o
- DF1H=b-u-v
- DFTAC=b-j-k-s
- DIST=b-j-k-v^2
- DNUSCC=b-n^2-i^1
- DNUSCD=b-n^2-o^2-p^2
- DNUSOC=b-n^2-y-z
- DNUSTMC=b-n^2-y-w
- DS1=b-c^4-d^4-f^4-g^4-k^3-l^3
- DS1SFAC=b-n^2-o^2-s^2-t^2-k^3-l^3
PCTDX=b-o³-p³
PLTLK=b-r³-s³-t³
PPPLK=b-c⁴-d⁴-h⁴-i⁴
PMU=b-r-v¹
PROTO=b-j-k
PSIUCOM=b-w¹-k
PSUPIDB=b-w¹-x¹-e¹
PSUPH=b-w¹-x¹-y¹
RAF=b-z¹
RAU=b
RCL=b-n-o-b¹
RCLK=b-a²
RCOSC=b-b²
RCOXC=b-c²
RCREF=b-d²
RCXC=b-e²
RDFI=b-n-o
RLI=b-f²
RRCLK=b-g¹-f¹
RTIFAC=h³-i³
RVPT=b-c¹-k-g²
SAS=b-m²
SCAN=b-j-k-w²
SDFI=b-q-h²
SFI=b-n²-o²-q²
SLIM=b-j-k-b³
EC1STE=b-n²-o²-s²
STS1=b-c⁴-d⁴-f⁴-g⁴
STSFAC=b-n²-o²-s²-t²
STS³C=b-c⁴-d⁴-h⁴-i⁴
TAC=b-p-k
TEN=b-p-k-m-t
TMC=h³-w
TMUX=b-n²-o²-r²
TRIB=b-r³-s³-u³
TTFCOM=a-i²-k-j²
TUCHBD=b-p-k-m
UCONF=b-i²-k-k²
UMBIL=b-m³-n³
UTD=b-c¹-k-h
UTG=b-c¹-k-k²
VNCR=b-q³
VT¹S=b-c⁴-d⁴-f⁴-g⁴-k³-l³
VT¹FAC=b-n²-o²-s²-t²-k³-l²

b = SM number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

c = Line unit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
d = Line unit grid number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

e = Grid board number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

f = Line unit A-link number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

g = Grid board switch number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

h = UTD number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

i = Grid board switch level number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

j = Metallic service unit (MSU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

k = Service group (SG) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

l = MSU board slot number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

m = Trunk equipment number (TEN) board number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

n = Digital line and trunk unit (DLTU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

o = Digital facilities interface (DFI) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

p = Trunk unit (TU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

q = DCLU number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

r = DCTU number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

s = Circuit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

t = TEN circuit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

u = Remote integrated service line unit (RISLU) DLTU number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

v = DFIH number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
Messages manual.

\( w \) = TMC number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

\( x \) = Integrated digital circuit unit (IDCU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

\( y \) = RT number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

\( z \) = EOC number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

\( a^1 \) = Remote switching module (RSM) DFIH number, inter-RSM CDFI number, or inter-office trunk DFI number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

\( b^1 \) = FAC number. The FAC number is the T1 facility number on a remote DFI (RDFI), CDFI, or DFI (0-1).

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\( e^1 \) = PIDB or direct DPIDB pair number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

\( f^1 \) = Integrated facility (IFAC) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

\( g^1 \) = ISLU number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

\( h^1 \) = High-level service circuit (HLSC) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

\( i^1 \) = Common controller number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

\( j^1 \) = Common data number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

\( k^1 \) = Line group controller number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

\( l^1 \) = Line card number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

\( m^1 \) = PIDB pair number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

\( n^1 \) = Access network board. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
o = ISTF unit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

p = Channel board number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

q = Channel number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

r = Metallic access board number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

s = MAB board number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

t = MCTSI unit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

u = MTIB number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

v = PMU circuit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

w = PSU number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

x = Shelf number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

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b = RCOSC side. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

c = RCOXC side. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

d = RCREF to be stored. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

e = RCXC side. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

f = RLI number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

g = RVPT circuit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
Messages manual.

\( h^2 \) = SLC\(^\text{®} \) 96 digital facility interface (SDFI) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

\( i^2 \) = Global digital service unit (GDSU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

\( j^2 \) = TTFCOM board number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

\( k^2 \) = Digital service unit (DSU) board number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

\( l^2 \) = LDSF number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

\( m^2 \) = SAS number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

\( n^2 \) = Digital Networking Unit - SONET (DNU-S) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

\( o^2 \) = Data group (DG) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

\( p^2 \) = Common data number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

\( q^2 \) = SFI number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

\( r^2 \) = TMUX number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

\( s^2 \) = SONET termination equipment (STE) facility number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

\( t^2 \) = Synchronous transport signal (STS) facility number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

\( u^2 \) = VT1 number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

\( v^2 \) = Distribute board number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

\( w^2 \) = Scan point board number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

\( x^2 \) = Line group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

\( y^2 \) = Line board number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
z\textsuperscript{3} = Line circuit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

a\textsuperscript{3} = GDSF unit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

b\textsuperscript{3} = Subscriber line instrument measuring (SLIM) unit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

c\textsuperscript{3} = Access interface unit (AIU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

d\textsuperscript{3} = Common data and control controller (COMDAC) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

e\textsuperscript{3} = Line pack (LP) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

f\textsuperscript{3} = Ring generator (RG) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

g\textsuperscript{3} = Timeslot group (TSGRP) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

h\textsuperscript{3} = Site identification (SID) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

i\textsuperscript{3} = Remote terminal (RT) facility (FAC) circuit. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

j\textsuperscript{3} = Metallic access test bus number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

k\textsuperscript{3} = Virtual tributary group (VTG) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

l\textsuperscript{3} = Virtual tributary member (VTM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

m\textsuperscript{3} = RSM number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

n\textsuperscript{3} = Host umbilical (UMBIL) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

o\textsuperscript{3} = Peripheral control and timing data exchanger unit (PDXU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

p\textsuperscript{3} = Peripheral control and timing data exchanger (PCTDX) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

q\textsuperscript{3} = Virtual network conference resource number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

r\textsuperscript{3} = Peripheral line and trunk unit (PLTU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
s³ = Peripheral control facility interface (PCTFI) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

t³ = Peripheral control facility interface (PCTFI) link side number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

u³ = Peripheral control facility interface link tributary (TRIB) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

v³ = Inter-working gateway (IWG) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

w³ = Inter-working gateway link interface (IWGLI) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

x³ = Inter-working gateway facility (IWGFAC) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

y³ = Inter-working unit (IWU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

z³ = Inter-working unit facility (IWUFAC) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

a⁴ = Network interface number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

b⁴ = Packet access gateway (PAG) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

c⁴ = Optical interface unit (OIU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

d⁴ = Protection group (PG) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

e⁴ = Side number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

f⁴ = Optical carrier - level 3 (OC-3) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

g⁴ = Synchronous transport signal - level 1 (STS1) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

h⁴ = Optical carrier - level 3 concatenated (OC3C) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

i⁴ = Synchronous transport signal - level 3 concatenated (STS3C) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

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4. SYSTEM RESPONSE

NG = No good. The request has been denied. The message form is valid, but the request conflicts with
current status.

PF = Printout follows. Followed by the OP:CONV-EXT output message.

RL = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

Output Message(s):

OP:CONV-EXT

Input Appendix(es):

APP:RANGES
OP:CONV-INT
Software Release: 5E14 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE
Requests that translation information for a particular circuit, from its internal identifier to its external identifier.
For internal to external translation, the output will be the circuit’s external identifier; if applicable, additional information such as subtending unit will follow.

2. FORMAT
OP:CONV, INT, {CKT|ALINK|LEN}=a-b;

3. EXPLANATION OF MESSAGE
a = Switching module (SM) number.
b = Internal identifier of line unit A-link (ALINK), line equipment number (LEN) or any SM circuit.

4. SYSTEM RESPONSE
NG = No good. The request has been denied. The message form is valid, but the request conflicts with current status.
PF = Printout follows. Followed by the OP:CONV-INT output message.
RL = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES
Output Message(s):
   OP:CONV-INT
OP:CONV-PHA-A

Software Release: 5E14 - 5E15
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Convert from a given protocol handler (PH) for asynchronous transfer mode (ATM) (PHA) to the associated packet switch unit (PSU) link and channel that it services.

2. FORMAT

OP:CONV,PHA=a-b-c-d;

3. EXPLANATION OF MESSAGE

a = Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

b = PSU number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

c = Shelf number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

d = PH number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

NG = No good. The request has been denied. The message is valid but the request conflicts with current equipage or status.

PF = Followed by an OP:CONV-PHA output message.

RL = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

Output Message(s):

OP:CONV-PHA

Input Appendix(es):

APP:RANGES

MCC Display Page(s):
1187 (PSU LINK STATUS)
OP:CONV-PHA-B

Software Release: 5E16(1) and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Convert from a given protocol handler (PH) for asynchronous transfer mode (ATM) (PHA) to the associated packet switch unit (PSU) link and channel that it services.

2. FORMAT

OP:CONV,PHA=a-b-c-d;

3. EXPLANATION OF MESSAGE

a = Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
b = PSU number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
c = Shelf number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
d = PH number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

NG = No good. The request has been denied. The message is valid but the request conflicts with current equipage or status. Refer to the APP:SYS-RESPONSE appendix in the Appendixes section of this Input Messages manual.
PF = Followed by an OP:CONV-PHA output message.
RL = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

Output Message(s):
OP:CONV-PHA

Input Appendix(es):
APP:RANGES
APP:SYS-RESPONSE

MCC Display Page(s):
1187.y PSU LINK STATUS (where y=PSU number)
OP:CONV-PSALNK
Software Release: 5E16(2) and later
Command Group: MAINT
Application: 5
Type: Input

1. PURPOSE
Convert from a given packet switch unit (PSU) asynchronous transfer mode (ATM) link (PSALNK) to the associated protocol handlers (PHs) for ATM (PHAs) that service the individual channels of the ATM link.

2. FORMAT
OP:CONV,PSALNK=a-b-c;

3. EXPLANATION OF MESSAGE
   a = Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
   b = PSU number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
   c = ATM link number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE
   NG = No good. The request has been denied. The message is valid but the request conflicts with current equipage or status. Refer to the APP:SYS-RESPONSE appendix in the Appendixes section of this Input Messages manual.
   PF = Printout follows. Followed by the OP:CONV-PSALNK output message.
   RL = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES
Input Message(s):  
   OP:CONV-PHA

Output Message(s):
   OP:CONV-PSALNK

Input Appendix(es):
   APP:RANGES
   APP:SYS-RESPONSE
MCC Display Page(s):
1187.y,x    PSU/ATM LINKS STATUS (where y=PSU number and x=SM number)
**OP:CONV-PSELNK**

**Software Release:** 5E16(1) and later  
**Command Group:** MAINT  
**Application:** 5  
**Type:** Input

### 1. PURPOSE

Format 1 converts from a given ethernet link (PSELNK) to the associated protocol handlers for ethernet (PHE2) and the channel group associated to it.

Format 2 converts from a given PHE2 to the associated link and channel group.

Format 3 converts from a given channel group to ethernet link and PH.

### 2. FORMAT

1. \[1\] OP:CONV,PSELNK=a-b-c;
2. \[2\] OP:CONV,PSELNK,PHE=a-b-d-e;
3. \[3\] OP:CONV,PSELNK,CHGP=a-b-d-f;

### 3. EXPLANATION OF MESSAGE

- **a** = Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
- **b** = Packet switch unit (PSU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
- **c** = Ethernet link number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
- **d** = PSU shelf number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
- **e** = Protocol handler (PH) number (relative to the PSU Shelf).
- **f** = Channel group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

### 4. SYSTEM RESPONSE

- **NG** = No good. The request has been denied. The message is valid but the request conflicts with current equipage or status.
- **PF** = Printout follows. Followed by an OP:CONV-PSLNK output message.
- **RL** = Retry later. The request cannot be executed now due to unavailable system resources.

### 5. REFERENCES
Input Message(s):

  OP : CONV-PSELNK

Output Message(s):

  OP : CONV-PSELNK
1. PURPOSE

Convert from a given packet switch unit (PSU) link (PSLNK) to the associated protocol handlers (PHs) for asynchronous transfer mode (ATM) (PHAs) that service the individual channels of the PSU link.

A PSU link is uniquely identified by the community addresses (CAs) of two PSUs that this PSU link connects. The near end PSU CA can be entered directly in the input message line or can be translated by the switch from the entered PSU equipment number. However, the far end CA can not be specified by the PSU equipment number and must always be entered as PSU CA.

NOTE: For gateway protocol handlers (PH) the only valid input message format is #4. Other formats will not yield the expected results.

2. FORMAT

[1] OP:CONV,PSLNK=a-b;
[2] OP:CONV,PSLNK,PSUCA=a,FARCA=b;
[3] OP:CONV,PSLNK,PSU=c-0,FARCA=b;

3. EXPLANATION OF MESSAGE

a = Near PSU community address of the PSU link.

b = Far PSU community address of the PSU link.

Note: The far end CA must be zero if the PSU link is connected to an ATM switch in a point-to-multipoint configuration network.

c = Switching module (SM) number.

4. SYSTEM RESPONSE

NG = No good. The request has been denied. The message is valid but the request conflicts with current equipage or status.

PF = Printout follows. Followed by an OP:CONV-PSLNK output message.

RL = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

Input Message(s):
OP : CONV-PHA

Output Message(s):

OP : CONV-PSLNK

MCC Display Page(s):

PSU LINKS STATUS
OP:CONV-PSLNK-B

Software Release: 5E16(1) only
Command Group: MAINT
Application: 5
Type: Input

1. PURPOSE

Convert from a given packet switch unit (PSU) link (PSLNK) to the associated protocol handlers (PHs) for asynchronous transfer mode (ATM) (PHAs) that service the individual channels of the PSU link.

A PSU link is uniquely identified by the community addresses (CAs) of two PSUs that this PSU link connects. The near end PSU CA can be entered directly in the input message line or can be translated by the switch from the entered PSU equipment number. However, the far end CA can not be specified by the PSU equipment number and must always be entered as PSU CA.

NOTE: For gateway protocol handlers (PH) the only valid input message format is #4. Other formats will not yield the expected results.

2. FORMAT

[1] OP:CONV,PSLNK=a-b;
[2] OP:CONV,PSLNK,PSUCA=a,FARCA=b;
[3] OP:CONV,PSLNK,PSU=c-d,FARCA=b;

3. EXPLANATION OF MESSAGE

a = Near PSU community address of the PSU link.
b = Far PSU community address of the PSU link.

Note: The far end CA must be zero if the PSU link is connected to an ATM switch in a point-to-multipoint configuration network.

c = Switching module (SM) number.
d = PSU number

4. SYSTEM RESPONSE

NG = No good. The request has been denied. The message is valid but the request conflicts with current equipage or status.
PF = Printout follows. Followed by an OP:CONV-PSLNK output message.
RL = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES
Input Message(s):

OP : CONV-PHA

Output Message(s):

OP : CONV-PSLNK

MCC Display Page(s):

PSU LINKS STATUS
OP:CONV-PSLNK-C

Software Release: 5E16(2) and later
Command Group: MAINT
Application: 5
Type: Input

1. PURPOSE

Convert from a given packet switch unit (PSU) link (PSLNK) to the associated protocol handlers (PHs) for
asynchronous transfer mode (ATM) (PHAs) that service the individual channels of the PSU link.

A PSU link is uniquely identified by the community addresses (CAs) of two PSUs that this PSU link connects. The
near end PSU CA can be entered directly in the input message line or can be translated by the switch from the
entered PSU equipment number. However, the far end CA can not be specified by the PSU equipment number and
must always be entered as PSU CA.

For gateway PHs, only Format 4 is valid. Other formats will not yield the expected results.

2. FORMAT

[1] OP:CONV,PSLNK=a-b;

[2] OP:CONV,PSLNK,PSUCA=a,FARCA=b;

[3] OP:CONV,PSLNK,PSU=c-d,FARCA=b;

3. EXPLANATION OF MESSAGE

a = Near PSU community address of the PSU link. Refer to the APP:RANGES appendix in the
Appendixes section of the Input Messages manual.

b = Far PSU community address of the PSU link. Refer to the APP:RANGES appendix in the
Appendixes section of the Input Messages manual.

The far end CA must be zero if the PSU link is connected to an ATM switch in a point-to-multipoint
configuration network.

c = Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section
of the Input Messages manual.

d = PSU number. Refer to the APP:RANGES appendix in the Appendixes section of the Input
Messages manual.

4. SYSTEM RESPONSE

NG = No good. The request has been denied. The message is valid but the request conflicts with
current equipage or status. Refer to the APP:SYS-RESPONSE appendix in the Appendixes section
of this Input Messages manual.

PF = Printout follows. Followed by an OP:CONV-PSLNK output message.
RL = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

Input Message(s):

OP: CONV-PHA

Output Message(s):

OP: CONV-PSLNK

Input Appendix(es):

APP: RANGES
APP: SYS-RESPONSE

MCC Display Page(s):

1187,y PSU LINKS STATUS (where y=PSU number)
OP:CORCSTAT-SM
  
  Software Release: 5E14 and later  
  Command Group: ODD  
  Application: 5  
  Type: Input  

1. PURPOSE  
Requests the reporting of the number of customer-originated recent changes (CORCs) that are logged in one or more switching modules (SMs) and/or one or more communication module processors (CMPs).

2. FORMAT  
OP:CORCSTAT, {SM=a[&&b]|CMP=c[&&d]|SM=a[&&b],CMP=c[&&d]};  

3. EXPLANATION OF MESSAGE  

  a  = The SM number or lower limit of a range of SM numbers.  
  b  = The upper limit of a range of SM numbers.  
  c  = The CMP number or lower limit of a range of CMP numbers.  
  d  = The upper limit of a range of CMP numbers.  

4. SYSTEM RESPONSE  

  NG  = No good. The input message was not valid.  
  PF  = Printout follows. The OP:CORCSTAT-SM output message follows.  

5. REFERENCES  
None.
OP:COT-STATUS

Software Release: 5E14 and later
Command Group: TRACE
Application: 5
Type: Input

1. PURPOSE

Requests output of the mode, priority, and number of messages buffered for the customer-originated trace (COT) feature.

2. FORMAT

OP:COT,STATUS;

3. EXPLANATION OF MESSAGE

No variables.

4. SYSTEM RESPONSE

PF = Printout follows, followed by the OP:COT-STATUS output message.

5. REFERENCES

Input Message(s):

SET:COT

Output Message(s):

OP:COT-STATUS
1. PURPOSE

Requests that information describing the configuration of the specified digital subscriber line (DSL) be displayed. The output will contain the type of DSL (singlepoint versus multipoint), the status of the DSLs D and B-channels, and whether default service is available on the DSL. It will also identify what customer premises equipment (CPE) integrated services digital network (ISDN) terminals are connected to the DSL, give the terminal endpoint identifier (TEI) of each CPE, identify the type of CPE (when known), identify the protocol that each CPE supports (when known), identify the users service profile identifier (USPID) associated with the CPE (when known), and identify the primary directory number (DN)/multi-line hunt group (MLHG) associated with the CPE (when known).

This output is useful in identifying the current configuration of the DSL and in providing the current CPE’s TEI identification (which can change over time depending on the actions taken by the network and subscribers on the DSL). The TEI information may be needed during manually-requested removals (RMV:CPE) and restorations (RST:CPE) of terminals connected to the DSL.

The information provided by this message is similar in content to the information displayed on the trunk and line work station (TLWS) DSL graphic display page.

2. FORMAT

OP:CPE,a;

3. EXPLANATION OF MESSAGE

Note: Refer to the Acronym section of the Input Messages manual for the full expansion of acronyms shown in the format.

a = Equipment number or identifier. Valid value(s):
   AIUEN=d-n-o-p
   DN=q
   ILEN=d-h-i-j
   INEN=d-r-i-j
   LCEN=d-e-f-g
   LCKEN=d-e-k-l-m
   MLHG=b-c
   PKTDN=q

b = MLHG number of a subscriber associated with the DSL. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

c = Multi-line hunt member number of the subscriber. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

d = Switching module (SM) in which the digital subscriber line (DSL) exists. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

e = Integrated services line unit (ISLU) or ISLU version 2 (ISLU2) in which the DSL exists. Refer to
the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

\[ f \]
= Line group controller (LGC) in the ISLU in which the DSL exists. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

\[ g \]
= Line card of the ISLU line group controller which the DSL connects to. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

\[ h \]
= Integrated digital carrier unit (IDCU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

\[ i \]
= Remote terminal (RT) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

\[ j \]
= RT line number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

\[ k \]
= Line group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

\[ l \]
= Line board number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

\[ m \]
= Line circuit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

\[ n \]
= Access interface unit (AIU) Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

\[ o \]
= AIU pack number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

\[ p \]
= AIU circuit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

\[ q \]
= Circuit directory number (DN) or packet directory number (PKTDN) of any subscriber associated with the DSL. For key-system service DNs, only primary DNs are valid.

\[ r \]
= Digital network unit - synchronous optical network (SONET) (DNU-S) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

\[ NG \]
= No good. The input request was in some way invalid, most likely because a value was out of range. Identify the error with the original request and repeat the request.

\[ PF \]
= Printout follows. The requested action has been accepted and is being processed. An OP:CPE output message will be printed that identifies the outcome of the request, providing the DSL and CPE information when successful.

5. REFERENCES

Input Message(s):
RMV:CPE
RMV:LINE
RST:CPE
RST:LINE

Output Message(s):

OP:CPE

Input Appendix(es):

APP: RANGES

MCC Display Page(s):

160 (TRUNK & LINE MAINT)
42. OP:D
OP:DATALINK

Software Release: 5E14 and later  
Command Group: TRKLN  
Application: 5  
Type: Input

1. PURPOSE

Requests the output of the current usage of an Operator Position System (OSPS) External Information System (EIS) data link or data link group. Output will include switching module state, switching module identification, EIS identification, link number, approximate usage as a percentage of link capacity, recent overload count, and the data link state associated with a single data link or a data link group. A data link group is defined as a set of two or more data links, up to a maximum of sixteen, connecting a vendor’s EIS to a switching module (SM).

Note: If a data link is in service and the approximate usage is displayed as zero, then link capacity as calculated is less than one percent.

2. FORMAT

[1] OP:DATALINK, {EIS=b-c | LCEN=d-e-f-g | SM=d} [,DCH];

[2] OP:DATALINK, EIS=b, SM=d [,DCH];

3. EXPLANATION OF MESSAGE

Note: Refer to the Acronym section of the Input Messages manual for the full expansion of acronyms shown in the format.

DCH  = D-channel identifier.

b  = EIS number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

c  = External data link (member) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

d  = SM number.

e  = Line unit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

f  = Line group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

g  = Line card number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

PF  = Printout follows. The request has been accepted and is followed by the OP:DATALINK output message.
RL = Retry later. The request has been denied probably due to system load.

5. REFERENCES

Output Message(s):

OP : DATALINK
OP:DCC

Software Release: 5E14 and later
Command Group: NMOC
Application: 5
Type: Input

1. PURPOSE

Lists all destination code cancellation (DCC) controls in the office. Specific information is included for each control:

- Destination code.
- Gapping interval.
- Announcement treatment if blocking occurs.
- Type of traffic subject to the control.

This TTY message is valid only for defense switched network (DSN) switches.

2. FORMAT

OP:DCC;

3. EXPLANATION OF MESSAGE

No variables.

4. SYSTEM RESPONSE

PF = Printout follows. Followed by the OP:DCC output message.

RL = Retry later. May also include:
- CONFLICTING REQUEST = A similar request is being processed utilizing necessary resources.
- RESOURCE SHORTAGE = The necessary resources are not available.

5. REFERENCES

Input Message(s):

CLR:DCC
OP:DSNM5
SET:DCC

Output Message(s):

OP:DCC

Other Manual(s):
235-900-133 Product Specification
MCC Display Page(s):

109 (DSN NM EXCEPTION)
129 (OVERLOAD)
OP:DCOFC

Software Release: 5E14 and later
Command Group: NMOC
Application: 5
Type: Input

1. PURPOSE

Requests a list of all offices that have trunk groups terminating at this switch. This message is valid only for the defense switched network (DSN).

2. FORMAT

OP:DCOFC;

3. EXPLANATION OF MESSAGE

No variables.

4. SYSTEM RESPONSE

PF = Printout follows. Followed by the OP:DCOFC output message.

RL = Retry later. May also include:
   - CONFLICTING REQUEST = A similar request is being processed utilizing necessary resources.
   - RESOURCE SHORTAGE = The necessary resources are not available.

5. REFERENCES

Input Message(s):

   CLR: ARC
   SET: ARC

Output Message(s):

   OP: DCOFC

Other Manual(s):

235-900-113    Product Specification

MCC Display Page(s):

   109 (DSN NM EXCEPTION)
   129 (OVERLOAD)
OP:DEBUG

Software Release: 5E14 and later
Command Group: TRKLN
Application: 5
Type: Input

1. PURPOSE

Requests that status of metallic debugging flags be printed for the specified SM.

Format 1 is for SM only cases.

2. FORMAT

OP:DEBUG, SM=a;

3. EXPLANATION OF MESSAGE

\( a \) = Switching module number.

4. SYSTEM RESPONSE

\( NG \) = No good. The message was not recognized or acceptable.

\( PF \) = Printout follows. Followed by the OP:DEBUG output message.

5. REFERENCES

Input Message(s):

ALW:DEBUG
CHG:LPS-MSGCLS
INH:DEBUG

Output Message(s):

ALW:DEBUG
INH:DEBUG
OP:DEBUG

Input Appendix(es):

APP:RANGES

Other Manual(s):

235-105-220  Corrective Maintenance
OP:DFC-INFO
Software Release: 5E14 and later
Command Group: AM
Application: 5,3B
Type: Input

1. PURPOSE

Requests specific information regarding the specified disk file controller (DFC) and equipped sub-devices.

Note: The format and content of the output will vary depending on the DFC and the equipped sub-device types.

- DFC major status.
- DFC microcode (firmware/pumpcode) version.
- SCSI bus (SBUS) member numbers, device ID, and status.
  - Device firmware revision level.
  - Device ID.
  - Device types.
  - Equipage sizes and compatibility.
  - Major status.
  - Number of tracks.
  - Physical port.
  - Product identification.
  - Serial number.
  - Unit essential.
  - Unit’s mate.
  - Unit name and member number.
  - Unit reserved.
  - Usability.
  - Validity of the volume table of contents (VTOC).

2. FORMAT

OP:DFC=a:INFO;

3. EXPLANATION OF MESSAGE

a = DFC member number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

PF = Printout follows. The request has been accepted, and is followed by the OP:DFC-INFO output message.

5. REFERENCES
Input Message(s):
  OP : MT–INFO

Output Message(s):
  OP : DFC–INFO

Input Appendix(es):
  APP : RANGES
OP:DFCELOG

Software Release: 5E14 and later
Command Group: FHADM
Application: 5,3B
Type: Input

1. PURPOSE

Requests that enhanced information report (EIR) entries of the disk driver logfile be printed and formatted. Refer to the REPT:DFCE and REPT:DFCI output messages for EIR report. If no options are specified, all EIR entries of type 2 are formatted and printed. Otherwise, the EIR entries in the logfile that meet all the selection criteria are printed.

The DATE, TIME, ID, and TYPE options are matched with information contained in the user control string (UCS) which the spooler adds as a prefix to each message before storing it in the logfile. The UCS is not part of the OP:DFCELOG output. If the DATE option is specified in a long format (ten digits), the TIME option is illegal. If the DATE option is specified in a short format (six digits), and the TIME option is given, an intersection between the DATE and TIME options is taken. If the TYPE option is not specified, the OP:DFCELOG message searches for type 2222 in the UCS string. The keyword (KW) option matches on information contained in the text of the EIR message. The unit number in the moving head disk (MHD) option is mapped into the MHD ID plug ID switch number contained in the text of the EIR message. The CCODE option is matched with the completion code contained in the text of the EIR message.

2. FORMAT

OP:DFCELOG;DATA[,MHD=a[,CCODE=b]][,DATE=c&&d][,TIME=e&&f][,KW="g"][,ID=h][,TYPE=i][,LIMIT=j][,CLASS=k,DEVICE="l"];

3. EXPLANATION OF MESSAGE

a = MHD number.
b = Completion code (in hex); for example, h'00ff.'
c = Start date in month, day, and year format (mmddyy); for example, 090188 equals September 1, 1988; or in month, day, year, hour, and minute format (mmddyyhhmm); for example, 0901881030 equals September 1, 1988, at 10:30 a.m. The size of the small computer system interface (SCSI) EIR completion code is two hex digits. Therefore, only the two least significant digits are meaningful.
d = End date (mmddyy) or (mmddyyhhmm); for example, 090188 equals September 1, 1988 or 0901881030 equals September 1, 1988, at 10:30 a.m. Default is the start date. If given, this parameter must be in the same format (six or ten digits) as the start date.
e = Start time in hours and minutes (hhmm); for example, 0110 equals 1:10 a.m. Default date is current date.
f = End time in hours and minutes (hhmm); for example, 1530 equals 3:30 p.m. Default is start time. Default date is the current date.
g = A keyword that appears in all EIR entries that are to be reported (up to 39 characters).
h = An optional 4-digit decimal numeral which is used to link an item in a logfile with an entry in another file. The ID is filled in by the process which made the logfile entry; for example, 1234.
i = An optional 4-digit decimal numeral which specifies the type of entry on a logfile. The type is filled
in by the process which made the logfile entry; for example, 1234. Default is 2222.

\[ j \] = Specifies the maximum number of output entries. Default is 200. Will report output complete if limit is reached.

\[ k \] = Location on which output should be routed. Valid value(s):
  - \[ R \] = Receive-only printer (ROP).
  - \[ T \] = Terminal and ROP.

Default is R.

\[ l \] = A specific device that output should be routed to (up to nine characters). This device cannot be a logfile.

4. SYSTEM RESPONSE

\[ IP \] = In progress.

5. REFERENCES

Output Message(s):

- \[ OP:DFCELOG \]
- \[ REPT:DFCE \]
- \[ REPT:DFCI \]
OP:DIGTRC

Software Release: 5E14 and later
Command Group: TRACE
Application: 5
Type: Input

1. PURPOSE

Requests consolidated routing information based on requested digit analysis selector (DAS). The routing information consists of destination index and route index. A list of translated digit patterns along with the routing information will be placed into a UNIX® RTR operating system file on the administrative module (AM) under the /updtmp directory. The routing information is written to a file called "xxxxxx.results", the "xxxxxx" being a unique number for every execution of the message. The resulting file will be limited to 1000 line entries. Any failures encountered while processing will be indicated on the receive-only printer (ROP) and an error file, "xxxxxx.err", also under "/updtmp".

2. FORMAT

OP:DIGTRC,SM=a,DAS=b,START=c,END=d;

3. EXPLANATION OF MESSAGE

a = Switching module (SM) number.
b = Digit analysis selector (DAS) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
c = Starting range of digit strings (0 - 999999999).
d = Ending range of digit strings (0 - 999999999).

4. SYSTEM RESPONSE

PF = Printout follows. The information will be in an output file.
NG = No good. The request was not accepted because:
- An illegal SM number was specified.
- An illegal DAS number was specified.
- An illegal START number was specified.
- An illegal END number was specified.

5. REFERENCES

Input Message(s):

OP:RTITRC
DUMP:F-ALL

Output Message(s):

REPT:OP-DIGTRC
Other Manual(s):
235-105-220  Corrective Maintenance
OP:DMQ-CM-SM

Software Release: 5E14 and later
Command Group: MAINT
Application: 5
Type: Input

1. PURPOSE

Requests the status of all active and waiting requests in the deferred maintenance queues (DMQ). Either the communication module (CM) DMQ or the DMQ for one or more switching modules (SM) can be requested.

2. FORMAT

OP:DMQ, {CM|SM=a[&b][,all]};

3. EXPLANATION OF MESSAGE

Note: Refer to the Acronym section of the Input Messages manual for the full expansion of acronyms shown in the format.

a = SM number (or lower limit for a range of SMs) where the desired DMQ resides.
b = Upper limit for a range of SM numbers.
ALL = All available data. This type request can produce large output reports and therefore it's use should be kept to a minimum.

4. SYSTEM RESPONSE

NG = No good. The message syntax is valid, but the request could not be processed.
PF = Printout follows. Followed by OP:DMQ-CM or the OP:DMQ-SM output message.
RL = Retry later. May also include:
- SM ISOLATED = The request could not be processed because the SM is currently isolated.

5. REFERENCES

Output Message(s):

OP:DMQ-CM
OP:DMQ-SM
OP:DMQ

Software Release: 5E14 and later
Command Group: MAINT
Application: 5,3B
Type: Input

1. PURPOSE

Requests a list of the queue from the administrative module (AM) maintenance input request administrator. This queue contains the status of all requests currently executed by the diagnostic control structure, including restore/remove requests, and the automatic maintenance request sources presently inhibited.

2. FORMAT

OP:DMQ[,AM];

3. EXPLANATION OF MESSAGE

No variables.

4. SYSTEM RESPONSE

PF = Printout follows. Followed by the OP:DMQ output message.

5. REFERENCES

Input Message(s):

STOP:DMQ
STP:DMQ

Output Message(s):

OP : DMQ

Other Manual(s):
235-105-220 Corrective Maintenance

MCC Display Page(s):

111 (AM, AM PERIPHERALS)
OP:DOC

Software Release: 5E14 and later
Command Group: NMOC
Application: 5
Type: Input

1. PURPOSE

Requests that all dynamic overload controls (DOCs) specified for the office be listed, or lists the control for a single trunk group.

2. FORMAT

OP:DOC[, TG=a];

3. EXPLANATION OF MESSAGE

   a = Trunk group number.

4. SYSTEM RESPONSE

   NG = No good. May also include:
   - INVALID REQUEST = The request has been denied. This office is not equipped to process the request entered.

   PF = Printout follows. Followed by the OP:DOC output message.

   RL = Retry later. May also include:
   - CONFLICTING REQUEST = A similar request is being processed utilizing necessary resources.
   - RESOURCE SHORTAGE = The necessary resources are not available.

5. REFERENCES

Input Message(s):

   ALM:DSILC
   ASGN:DOC
   CLR:DOC
   INH:DSILC

Output Message(s):

   OP:DOC

Other Manual(s):
235-190-120  Common Channel Signaling Service Features
MCC Display Page(s):

130 (NM EXCEPTION)
OP:DSNM5

Software Release: 5E14 and later
Command Group: NMOC
Application: 5
Type: Input

1. PURPOSE

Requests a list of a package (PKG) from the five-minute (M5) surveillance data set of packages. This message is valid only for defense switched network (DSN) switches.

2. FORMAT

OP:DSNM5,PKG=a[,TG=b];

3. EXPLANATION OF MESSAGE

a = Package name. Valid value(s):
   ARC = Alternate route cancellation control.
   CLCT = Network management control counts.
   CLDIR = Call direction.
   DCC = Destination code cancellation control.
   DLYR = Delayed readiness.
   IMA = Additional ineffective machine attempts.
   OVRLD = Overload or congestion control.
   RRC = Manual reroute trunk group controls.
   SVC = Critical service circuits.
   TGFLAG = Trunk group flags.
   TGMEAS = Basic trunk group measurements.

b = Trunk group number. This trunk group number must be on the network management (NM) schedule. If it is not, use the ASGN:DPSCH input message to put the trunk group on the NM schedule. This parameter is only specified with the TGMEAS package. The default is all trunk groups on the NM schedule.

4. SYSTEM RESPONSE

NG = No good. Valid value(s):
   - INVALID REQUEST = The request has been denied. This office is not equipped to process the request entered.
   - PACKAGE UNASSIGNED = The request has been denied. The data for the package requested is not currently being collected. Use the SET:DSNM5 input message to add the package to the package list.

PF = Printout follows.

RL = Retry later. Valid value(s):
   - CONFLICTING REQUEST = A similar request is being processed utilizing necessary resources.
   - TG UNASSIGNED = The request has been denied. The trunk group requested is not on the NM schedule so it is not included in the measurement collection. Use the
ASGN:DPSCH input message to add the trunk group to the NM schedule, wait for the next five-minute collection period, and re-enter the request.

5. REFERENCES

Input Message(s):

ASGN:DPSCH
OP:M5PKG
SET:DSNM5

Output Message(s):

OP:DSNM5-ARC
OP:DSNM5-CLCT
OP:DSNM5-CLDIR
OP:DSNM5-DCC
OP:DSNM5-TGMEAS
OP:M5PKG-CLCT
OP:M5PKG-DLYR
OP:M5PKG-IMA
OP:M5PKG-OVRLD
OP:M5PKG-RRC
OP:M5PKG-SVC
OP:M5PKG-TGFLAG

Other Manual(s):
235-900-113 Product Specification

MCC Display Page(s):

109 (OVERLOAD)
129 (DSN NM EXCEPTION)
43. OP:E
1. **PURPOSE**

Requests that the status of a previous execution or a currently running on-switch ECD audit be output.

2. **FORMAT**

OP:ECDAUD;

3. **EXPLANATION OF MESSAGE**

No variables.

4. **SYSTEM RESPONSE**

`PF` = Printout follows. Followed by the OP:ECDAUD output message.

5. **REFERENCES**

Input Message(s):

- STOP:ECDAUD
- INH:ECDAUD
- ALW:ECDAUD
- SCHED:ECDAUD
- EXC:ECDAUD

Output Message(s):

- OP:ECDAUD

Other Manual(s):

- 235-100-125  *System Description*
- 235-105-210  *Routine Operations and Maintenance Manual*
OP:EMERSTAT

Software Release: 5E14 and later
Command Group: SYSRCVY
Application: 5,3B
Type: Input

1. PURPOSE
Requests the status of the emergency dump partition on the disk: full or empty. If it is full, information is provided about the data that was written into the partition.

2. FORMAT
OP:EMERSTAT;

3. EXPLANATION OF MESSAGE
No variables.

4. SYSTEM RESPONSE
PF = Printout follows. Followed by the OP:EMERSTAT output message.

5. REFERENCES
Input Message(s):
CLR:EMERDMP
COPY:TAPE-EMERDMP

Output Message(s):
OP:EMERSTAT
REPT:EMER-DUMP

Other Manual(s):
235-105-110 System Maintenance Requirements and Tools
235-105-210 Routine Operations and Maintenance
235-105-220 Corrective Maintenance
OP:EQSTAT-A

Software Release: 5E14 only
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Requests a printout of all communication module (CM) units and switching modules (SMs) that are in the growth (GROW) or special growth (SGRO) equipage states, or the equipage state of an individual unit.

The units that equipage information can be requested on are the module message processor (MMP), the MMP growth board (MMPGBRD), the MMP synchronous data link controller (MMPSDLC), the time multiplexed switch (TMS) link (TMSLNK), the quad-link packet switch (QLPS), the quad-link packet switch gateway processor (QGP), the RSM communications links (CLNKs) through its host SM (HSM), the SM, or the communications module processor (CMP).

**NOTE 1:** The MMPGBRD only exists in CM model 1 (CM1) hardware. This message does not provide status on any SM peripheral units, or on any units within the SM.

**NOTE 2:** The RSMCL input parameter is not applicable to offices having CM3 vintage communications modules.

2. FORMAT

OP:EQSTAT, {MMP=a-b|MMPGBRD=a-b|MMPSDLC=a-b-c|TMSLNK=d-e ~|QGP=a-g|QLPS=d-h|RSMCL,HSM=f|SM=f|CMP=a-i|GROWTH};

3. EXPLANATION OF MESSAGE

GROWTH  = Print all CM units and SMs in the GROW or SGRO equipage states.

a  = Message switch side. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

b  = MMP number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

c  = Synchronous data link controller (SDLC) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

d  = Office network and timing complex (ONTC) side. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

e  = TMS link number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

f  = SM number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

g  = QGP number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

h  = QLPS number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
1 = CMP number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

NG = No good. The request has been denied. The message syntax is valid, but the request could not be processed. Refer to the APP:CM-IM-REASON appendix in the Appendixes section of the Output Messages manual for a list of possible reasons for denying the request.

PF = Printout follows. Followed by the OP:EQSTAT-CM or OP:EQSTAT-RSMCL output message.

5. REFERENCES

Output Message(s):

OP:EQSTAT-CM
OP:EQSTAT-RSMCL

Input Appendix(es):

APP:CM-IM-REASON
APP:RANGES

Other Manual(s):
235-105-231  Hardware Change Procedures
OP:EQSTAT-B

Software Release: 5E15 - 5E16(1)
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Requests a printout of all communication module (CM) units and switching modules (SMs) that are in the growth (GROW) or special growth (SGRO) equipage states, or the equipage state of an individual unit.

The units that equipage information can be requested on are the module message processor (MMP), the MMP growth board (MMPGBRD), the MMP synchronous data link controller (MMPSDLC), the time multiplexed switch (TMS) link (TMSLNK), the quad-link packet switch (QLPS), the quad-link packet switch gateway processor (QGP), the RSM communications links (CLNKs) through its host SM (HSM), the SM, or the communications module processor (CMP).

The MMPGBRD only exists in CM model 1 (CM1) hardware. This message does not provide status on any SM peripheral units, or on any units within the SM.

The RSMCL input parameter is not applicable to offices having CM3 vintage communications modules.

2. FORMAT

OP:EQSTAT, {MMP=a-b|MMPGBRD=a-b|MMPSDLC=a-b-c|TMSLNK=d-e . . .|QGP=a-g|QLPS=d-h|RSMCL,HSM=f|SM=f|CMP=a-i|GROWTH};

3. EXPLANATION OF MESSAGE

GROWTH = Print all CM units and SMs in the GROW or SGRO equipage states.

a = Message switch side. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
b = MMP number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
c = Synchronous data link controller (SDLC) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
d = Office network and timing complex (ONTC) side. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
e = TMS link number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
f = SM number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
g = QGP number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
h = QLPS number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
1 = CMP number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

NG = No good. The request has been denied. The message syntax is valid, but the request could not be processed. Refer to the APP:CM-IM-REASON appendix in the Appendixes section of the Output Messages manual for a list of possible reasons for denying the request.

PF = Printout follows. Followed by the OP:EQSTAT-CM or OP:EQSTAT-RSMCL output message.

5. REFERENCES

Output Message(s):

OP:EQSTAT-CM
OP:EQSTAT-RSMCL

Input Appendix(es):

APP:CM-IM-REASON
APP:RANGES

Other Manual(s):
235-105-231  Hardware Change Procedures
OP:EQSTAT-C

Software Release: 5E16(2) and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Requests a printout of all communication module (CM) units and switching modules (SMs) that are in the growth (GROW) or special growth (SGRO) equipage states, or the equipage state of an individual unit.

The units that equipage information can be requested on are the module message processor (MMP), the MMP growth board (MMPGBRD), the MMP synchronous data link controller (MMPSDLC), the time multiplexed switch (TMS) link (TMSLNK), the quad-link packet switch (QLPS), the quad-link packet switch gateway processor (QGP), the RSM communications links (CLNKS) through its host SM (HSM), the SM, or the communications module processor (CMP).

The MMPGBRD only exists in CM model 1 (CM1) hardware. This message does not provide status on any SM peripheral units, or on any units within the SM.

The RSMCL input parameter is not applicable to offices having CM3 vintage communications modules.

2. FORMAT

OP:EQSTAT,\{MMP=a-b|MMPGBRD=a-b|MMPSDLC=a-b-c|TMSLNK=d[-j]-e[&k]. . .
. . .\|QGP=a-g|QLPS=d-h|RSMCL,HSM=f|SM=f|CMP=a-i|GROWTH\};

3. EXPLANATION OF MESSAGE

GROWTH = Print all CM units and SMs in the GROW or SGRO equipage states.

a = Message switch side. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

b = MMP number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

c = Synchronous data link controller (SDLC) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

d = Office network and timing complex (ONTC) side. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

e = TMS link number, or lower limit of a range of TMS link numbers. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

f = SM number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

g = QGP number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

h = QLPS number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
i = CMP number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

j = Time multiplexed switch fabric pair (TMSFP) number. For CM2 offices, this parameter is optional, and when entered, must always be TMS fabric pair 0. For CM3 offices, this parameter is required to identify a TMS link. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

k = Upper limit of a range of TMS link numbers. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

NG = No good. The request has been denied. The message syntax is valid, but the request could not be processed. Refer to the APP:CM-IM-REASON appendix in the Appendixes section of the Output Messages manual for a list of possible reasons for denying the request.

PF = Printout follows. Followed by the OP:EQSTAT-CM or OP:EQSTAT-RSMCL output message.

5. REFERENCES

Output Message(s):

OP:EQSTAT-CM
OP:EQSTAT-RSMCL

Input Appendix(es):

APP:CM-IM-REASON
APP:RANGES

Other Manual(s):

235-105-231 Hardware Change Procedures
OP:ERRCHK

Software Release: 5E14 and later
Command Group: SYSRCVY
Application: 5,3B
Type: Input

1. PURPOSE

Requests a list of all inhibited administrative module error conditions, including ERRINT, ERRSRC, HDWCHK, and SFTCHK.

2. FORMAT

OP:ERRCHK;

3. EXPLANATION OF MESSAGE

No variables.

4. SYSTEM RESPONSE

PF = Printout follows. Followed by the OP:ERRCHK output message.

5. REFERENCES

Input Message(s):

ALW:ERRCHK
INH:ERRCHK

Output Message(s):

ALW:ERRCHK
INH:ERRCHK
OP:ERRCHK
OP:ESA

Software Release: 5E14 and later
Command Group: MAINT
Application: 5
Type: Input

1. PURPOSE

Requests the current status of the enhanced 911 service adjuncts (ESAs).

2. FORMAT

OP:ESA:STATUS;

3. EXPLANATION OF MESSAGE

No variables.

4. SYSTEM RESPONSE

NG  = No good. May also include:
   - NOT AN ESA OFFICE = The request has been denied because the ESAs for the office have not been equipped (E911 OPTION field on RC/V View 8.1 is not ESA).
   - FAILED TO SEND MESSAGE = The request has been denied because the message cannot be sent to the communication module processor (CMP) to process the requested information.
   - FEATURE NOT AVAILABLE = The request has been denied because the dual ESA for E911 (SFID 108) and/or the dual ESA enhancements special feature (SFID 141) have not been purchased.

PF  = Printout follows. Followed by the OP:ESA output message.

RL  = Retry later. May also include:
   - CMP UNAVAILABLE = The message can not be sent. The communications module processor (CMP) is not available.
   - OTHER REQUEST IN PROGRESS = Another ESA request is currently in progress.

5. REFERENCES

Input Message(s):

CLR:ESA
SET:ESA

Output Message(s):

CLR:ESA
OP:ESA
REPT:ESA
SET:ESA
Other Manual(s):
235-900-303  ISDN Application Processor Interface Specification

RC/V View(s):

8.1 [OFFICE PARAMETERS (MISCELLANEOUS)]
24.7 (DSL APPLICATION PROCESSOR COMMUNICATION DATA)
44. OP:F
1. PURPOSE

Requests output of the contents of the performance monitoring (PM) data for facilities terminated on a digital facility interface (DFI), DFI model 2 (DFI-2), integrated digital carrier unit (IDCU), or a digital networking unit - synchronous optical network (SONET) (DNU-S) number.

Format 1 is used to request an output report of performance monitoring counts for a specific DFI facility. This format is used to support early model DFIs such as ANN1, ANN3(B), and so forth. (Such a DFI is sometimes known as a DFI-1.)

Format 2 is used to request the current user input message requested ACS on a specified DFAC facility. The OP:FAC output message indicates the DFAC's current input message requested ACS. (If the ACS is inhibited for the entire SM, the OP:FAC output message will indicate the SM's current ACS rather than the DFAC's.)

Format 3 is used to request the current user input message requested ACS on a specified DFI-2 facility. The OP:FAC output message indicates the DFI-2's current input message requested ACS. (If the ACS is inhibited for the entire SM, the OP:FAC output message will indicate the SM's current ACS rather than the DFI-2's.)

Format 4 is used to request the current user input message requested ACS on a specified DLTU2 facility. The OP:FAC output message indicates the DLTU2's current input message requested ACS. (If the ACS is inhibited for the entire SM, the OP:FAC output message will indicate the SM's current ACS rather than the DLTU2's.)

Format 5 is used to request an output report of performance monitoring counts for DFI-2 facilities (DFACs).

Format 6 is used to request an output report of performance monitoring counts for all DFI-2 facilities terminated on a given DFI-2.

Format 7 is used to request an output report of performance monitoring counts for all DFI-2 facilities terminated on a given digital line and trunk unit model 2 (DLTU2).

Format 8 is used to request an output report of performance monitoring counts for an IDCU facility (IFAC).

Format 9 is used to request an output report of performance monitoring counts for all in-service facilities on an IDCU.

Caution: Requesting counts for all facilities on the IDCU will generate four or more pages of ROP output if the IDCU is fully equipped.

Use the conditional option to report only those facilities that have generated an interval alert during the current 15-minute interval or daily alert during the current performance monitoring day.

Format 10 is used to request an output report of performance monitoring counts for all facilities on an IDCU-supported or a DNU-S supported TR303 remote terminal (RT).

Format 11 is used to request the current user input message requested alert control status (ACS) on the specified switching module (SM). (The REPT:FAC output message describes the alert report.) The OP:FAC output message indicates the SM's current input message requested ACS. Recent changeable alert inhibits for the entire switch (RC/V View 8.1 [OFFICE PARAMETERS (MISCELLANEOUS)]) or individual facilities (RC/V View 20.23 [IDCU FACILITY EQUIPMENT (IFAC)], 20.25 [DNU'S PERFORMANCE MONITORING - THRESHOLD GROUP]
(SM2000)), or 22.15 [PERFORMANCE MONITORING - THRESHOLD GROUP]) override the input message requested 'allows'. Also, input message requested inhibit for the SM overrides any input message requested allows on the DFAC, DFI-2, DLTU2, IDCU, TR303 RTs, IFACs, or DNU-S.

Format 12 is used to request the last user requested ACS on the specified IDCU. (The REPT:FAC output message describes the alert report.) The OP:FAC output message indicates the IDCU's last input message requested ACS. Even though interval and/or daily alerts may be reported as inhibited or allowed for the IDCU, subsequent requests to inhibit/allow reports for TR303 RTs or individual IFACs may have changed the input message alert control status for some of the IDCU's facilities. Recent changeable alert inhibits for the entire switch (RC/V View 8.1) or individual facilities (RC/V Views 20.23 and 22.15) override any input message requested 'allows'.

Format 13 is used to request the last user input message requested ACS on the specified TR303 RT. (The REPT:FAC output message describes the alert report.) The OP:FAC output message indicates the RT's last input message requested ACS. Even though interval and/or daily alerts may be reported as inhibited or allowed for the RT, subsequent requests to inhibit/allow reports for the transport unit (such as, IDCU, DNU-S) or individual facilities may have changed the input message alert control status for some or all of the RT's facilities. Recent changeable alert inhibits for the entire switch (RC/V View 8.1) or individual facilities (RC/V Views 20.23 and 22.15) override any input message requested 'allows'.

Format 14 is used to request the current user input message requested ACS on the specified IFAC. (The REPT:FAC output message describes the alert report.) The OP:FAC output message indicates the IFACs current input message requested ACS. The status reported for an IFAC represents a summary of all IDCU, TR303 RT and IFAC input message inhibit/allow requests. Recent changeable alert inhibits for the entire switch (RC/V View 8.1) or individual facilities (RC/V Views 20.23 and 22.15) override any input message requested 'allows'.

Format 15 is used to request the current user input message requested ACS on the specified DNU-S. The OP:FAC output message indicates the DNU-S's current input message requested ACS.

Format 16 is used to request the current user input message requested ACS on a specified DNU-S SONET termination equipment (STE) facility number. The OP:FAC output message indicates the STE's current input message requested ACS. (If the ACS is inhibited for the entire SM, the OP:FAC output message will indicate the SM's current ACS rather than the STE's.)

Format 17 is used to request the current user input message requested ACS on a specified DNU-S virtual tributary 1.5 (VT1.5) facility. The OP:FAC output message indicates the VT1.5's current input message requested ACS. (If the ACS is inhibited for the entire SM, the OP:FAC output message will indicate the SM's current ACS rather than the VT1.5's.)

Format 18 is used to request the current user input message requested ACS on a specified DNU-S digital signal level-1 (DS1) facility. The OP:FAC output message indicates the DS1's current input message requested ACS. (If the ACS is inhibited for the entire SM, the OP:FAC output message will indicate the SM's current ACS rather than the DS1's.)

Format 19 is used to request an output report of performance monitoring counts for all in-service STE facilities on a DNU-S.

Format 20 is used to request an output report of performance monitoring counts for a specified DNU-S STE facility.

Format 21 is used to request an output report of performance monitoring counts for all in-service VT1.5 facilities on a synchronous transport signal (STS-1) facility (with VT1 request) or all in-service DS1 facilities on an STS-1 facility (with DS1 request).

Caution: Requesting counts for all VT1.5 or DS1 facilities on an STS-1 facility will generate four or more pages of ROP output if all 28 facilities are in-service.
Format 22 is used to request an output report of performance monitoring counts for a specified DNU-S VT1.5 facility.

Format 23 is used to request an output report of performance monitoring counts for a specified DNU-S DS1 facility.

2. FORMAT

[1]  OP:FAC,DFAC=a-b-c-0;
[3]  OP:FAC,DFI=a-b-c,ACS;
[4]  OP:FAC,DLTU=a-b,ACS;
[5]  OP:FAC,DFAC=a-b-c-d[,]CURR[,]PREV[,]HIST;
[7]  OP:FAC,DLTU=a-b[,]CURR[,]PREV;
[8]  OP:FAC,IDCU=a-e[,]CURR[,]PREV[,]COND[,]NE|BOTH];
[9]  OP:FAC,IFAC=a-e-f[,]CURR[,]PREV[,]HIST[,]NE|FE|BOTH];
[10] OP:FAC,(DNUSRT=a-h-g|IDCURT=a-e-g)[,CURR[,]PREV[,]FE|BOTH];
[12] OP:FAC,IDCU=a-e[,]ACS;
[13] OP:FAC,(DNUSRT=a-h-g|IDCURT=a-e-g)[,ACS];
[14] OP:FAC,IFAC=a-e-f[,]ACS;
[15] OP:FAC,DNUS=a-h,ACS;
[16] OP:FAC,EC1STE=a-h-i-j,ACS;
[17] OP:FAC,VT1FAC=a-h-i-j-k-l-m,ACS;
[18] OP:FAC,DS1SFAC=a-h-i-j-k-l-m,ACS;
[19] OP:FAC,DNUS=a-h[,]CURR[,]PREV[,]COND;
[20] OP:FAC,EC1STE=a-h-i-j[,]CURR[,]PREV[,]HIST;
[21] OP:FAC,STS FAC=a-h-i-j-k,VT1|DS1[,]CURR[,]PREV[,]COND.

22. OP:FAC,VT1FAC=a-h-i-j-k-l-m[,]PREV[,]HIST.
[23] OP:FAC,DS1SFAC=a-h-i-j-k-l-m[,]PREV[,]HIST.

3. EXPLANATION OF MESSAGE
ACS = Report the requested unit's last requested or current alert report inhibit/allow status requested using the input message. Recent changeable alert inhibits may be in effect that override input message requested allows.

BOTH = Report counts from both ends of a facility. If the requested facility has only NE and the BOTH option used, then the request is processed for the NE.

COND = Conditional request. Report only those facilities that have reported a 15-minute threshold crossing during the current interval or a daily threshold crossing during the current day. Refer to the REPT:FAC output message.

CURR = Report all current 15-minute and day counts (default).

FE = Far end. Report counts from the far end of a facility only.

HIST = Report all 32 15-minute interval history counts. Requesting HIST counts will generate 3 or more pages of ROP output to report all 32 history intervals.

NE = Near end. Report counts from the switch end of the facility only.

PREV = Report all previous 15-minute and day counts. The previous 15-minute count is the same count as the first of the 32 history interval counts.

a = SM number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

b = DLTU number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

c = DFI number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

d = DFI-2 facility number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

e = IDCU number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

f = Integrated digital carrier unit (IDCU) facility (IFAC) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

g = TR303 RT number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

h = DNU-S number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

i = Data group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

j = STE facility number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

k = STS facility number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
Messages manual.

l = Virtual tributary group (VTG) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

m = Virtual tributary member (VTM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

NG = No good. The input contained an illegal specification.

PF = Printout follows. The request has been accepted and the OP:FAC output message follows.

RL = Retry later. The request has been denied, probably due to system load.

5. REFERENCES

Input Message(s):

ALW:FAC
INH:FAC
INIT:FAC
INIT:REG
OP:REG

Output Message(s):

INIT:FAC
INIT:REG
OP:FAC
OP:REG
REPT:FAC

Input Appendix(es):

APP: RANGES

Other Manual(s):

235-105-220 Corrective Maintenance

RC/V View(s):

8.1 OFFICE PARAMETERS (MISCELLANEOUS)
20.23 IDCU FACILITY EQUIPMENT (IFAC)
20.25 DNUS PERFORMANCE MONITORING - THRESHOLD GROUP (SM2000)
22.15 PERFORMANCE MONITORING - THRESHOLD GROUP
1. PURPOSE

Requests output of the contents of the performance monitoring (PM) data for facilities terminated on a digital facility interface (DFI), DFI model 2 (DFI-2), integrated digital carrier unit (IDCU), optical interface unit (OIU), or a digital networking unit - synchronous optical network (SONET) (DNU-S) number.

Format 1 is used to request an output report of performance monitoring counts for a specific DFI facility. This format is used to support early model DFIs such as ANN1, ANN3(B), and so forth. (Such a DFI is sometimes known as a DFI-1.)

Format 2 is used to request the current user input message requested ACS on a specified DFAC facility. The OP:FAC output message indicates the DFAC's current input message requested ACS. (If the ACS is inhibited for the entire SM, the OP:FAC output message will indicate the SM's current ACS rather than the DFAC's.)

Format 3 is used to request the current user input message requested ACS on a specified DFI-2 facility. The OP:FAC output message indicates the DFI-2's current input message requested ACS. (If the ACS is inhibited for the entire SM, the OP:FAC output message will indicate the SM's current ACS rather than the DFI-2's.)

Format 4 is used to request the current user input message requested ACS on a specified DLTU2 facility. The OP:FAC output message indicates the DLTU2's current input message requested ACS. (If the ACS is inhibited for the entire SM, the OP:FAC output message will indicate the SM's current ACS rather than the DLTU2's.)

Format 5 is used to request an output report of performance monitoring counts for DF1-2 facilities (DFACs).

Format 6 is used to request an output report of performance monitoring counts for all DF1-2 facilities terminated on a given DFI-2.

Format 7 is used to request an output report of performance monitoring counts for all DF1-2 facilities terminated on a given digital line and trunk unit model 2 (DLTU2).

Format 8 is used to request an output report of performance monitoring counts for an IDCU facility (IFAC).

Format 9 is used to request an output report of performance monitoring counts for all in-service facilities on an IDCU.

Caution: Requesting counts for all facilities on the IDCU will generate four or more pages of ROP output if the IDCU is fully equipped.

Use the conditional option to report only those facilities that have generated an interval alert during the current 15-minute interval or daily alert during the current performance monitoring day.

Format 10 is used to request an output report of performance monitoring counts for all facilities on an IDCU-supported or a DNU-S supported TR303 remote terminal (RT).

Format 11 is used to request the current user input message requested alert control status (ACS) on the specified switching module (SM). (The REPT:FAC output message describes the alert report.) The OP:FAC output message indicates the SM's current input message requested ACS. Recent changeable alert inhibits for the entire switch (RC/V View 8.1 [OFFICE PARAMETERS (MISCELLANEOUS)]) or individual facilities (RC/V View 20.23 [IDCU FACILITY EQUIPMENT (IFAC)], 20.25 [DNU S PERFORMANCE MONITORING - THRESHOLD GROUP])
(SM2000)], or 22.15 [PERFORMANCE MONITORING - THRESHOLD GROUP]) override the input message requested 'allows'. Also, input message requested inhibit for the SM overrides any input message requested allows on the DFAC, DFI-2, DLTU2, IDCU, TR303 RTs, IFACs, DNU-S, or OIU.

Format 12 is used to request the last user requested ACS on the specified IDCU. (The REPT:FAC output message describes the alert report.) The OP:FAC output message indicates the IDCU's last input message requested ACS. Even though interval and/or daily alerts may be reported as inhibited or allowed for the IDCU, subsequent requests to inhibit/allow reports for TR303 RTs or individual IFACs may have changed the input message alert control status for some of the IDCU's facilities. Recent changeable alert inhibits for the entire switch (RC/V View 8.1) or individual facilities (RC/V Views 20.23 and 22.15) override any input message requested 'allows'.

Format 13 is used to request the last user input message requested ACS on the specified TR303 RT. (The REPT:FAC output message describes the alert report.) The OP:FAC output message indicates the RT's last input message requested ACS. Even though interval and/or daily alerts may be reported as inhibited or allowed for the RT, subsequent requests to inhibit/allow reports for the transport unit (such as, IDCU, DNU-S) or individual facilities may have changed the input message alert control status for some or all of the RT's facilities. Recent changeable alert inhibits for the entire switch (RC/V View 8.1) or individual facilities (RC/V Views 20.23 and 22.15) override any input message requested 'allows'.

Format 14 is used to request the current user input message requested ACS on the specified IFAC. (The REPT:FAC output message describes the alert report.) The OP:FAC output message indicates the IFACs current input message requested ACS. The status reported for an IFAC represents a summary of all IDCU, TR303 RT and IFAC input message inhibit/allow requests. Recent changeable alert inhibits for the entire switch (RC/V View 8.1) or individual facilities (RC/V Views 20.23 and 22.15) override any input message requested 'allows'.

Format 15 is used to request the current user input message requested ACS on the specified DNU-S. The OP:FAC output message indicates the DNU-S's current input message requested ACS.

Format 16 is used to request the current user input message requested ACS on a specified DNU-S SONET termination equipment (STE) facility number. The OP:FAC output message indicates the STE's current input message requested ACS. (If the ACS is inhibited for the entire SM, the OP:FAC output message will indicate the SM's current ACS rather than the STE's.)

Format 17 is used to request the current user input message requested ACS on a specified DNU-S virtual tributary 1.5 (VT1.5) facility. The OP:FAC output message indicates the VT1.5's current input message requested ACS. (If the ACS is inhibited for the entire SM, the OP:FAC output message will indicate the SM's current ACS rather than the VT1.5's.)

Format 18 is used to request the current user input message requested ACS on a specified DNU-S digital signal level-1 (DS1) facility. The OP:FAC output message indicates the DS1's current input message requested ACS. (If the ACS is inhibited for the entire SM, the OP:FAC output message will indicate the SM's current ACS rather than the DS1's.)

Format 19 is used to request an output report of performance monitoring counts for all in-service STE facilities on a DNU-S.

Format 20 is used to request an output report of performance monitoring counts for a specified DNU-S STE facility.

Format 21 is used to request an output report of performance monitoring counts for all in-service VT1.5 facilities on a synchronous transport signal (STS-1) facility (with ALLVT1 request) or all in-service DS1 facilities on an STS-1 facility (with ALLDS1 request).

Caution: Requesting counts for all VT1.5 or DS1 facilities on an STS-1 facility will generate four or more pages of ROP output if all 28 facilities are in-service.
Format 22 is used to request an output report of performance monitoring counts for a specified DNU-S VT1.5 facility.

Format 23 is used to request an output report of performance monitoring counts for a specified DNU-S DS1 facility.

Format 24 is used to request the current user input message requested ACS on the specified OIU. The OP:FAC output message indicates the OIU's current input message requested ACS. (If the ACS is inhibited for the entire SM, the OP:FAC output message will indicate the SM's current ACS rather than the OIU's.)

Format 25 is used to request the current user input message requested ACS on a specified OIU optical carrier level 3 (OC3) facility number. The OP:FAC output message indicates the OC3's current input message requested ACS. (If the ACS is inhibited for the entire SM, the OP:FAC output message will indicate the SM's current ACS rather than the OC3's.)

Format 26 is used to request the current user input message requested ACS on a specified OIU synchronous transport signal level 1 (STS1) facility. The OP:FAC output message indicates the STS1's current input message requested ACS. (If the ACS is inhibited for the entire SM, the OP:FAC output message will indicate the SM's current ACS rather than the STS1's.)

Format 27 is used to request the current user input message requested ACS on a specified OIU virtual tributary 1.5 (VT1.5) facility. The OP:FAC output message indicates the VT1.5's current input message requested ACS. (If the ACS is inhibited for the entire SM, the OP:FAC output message will indicate the SM's current ACS rather than the VT1.5's.)

Format 28 is used to request the current user input message requested ACS on a specified OIU digital signal level 1 (DS1) facility. The OP:FAC output message indicates the DS1's current input message requested ACS. (If the ACS is inhibited for the entire SM, the OP:FAC output message will indicate the SM's current ACS rather than the DS1's.)

Format 29 is used to request an output report of performance monitoring counts for the selected side, in-service OC3 facilities for each protection group on an OIU.

Format 30 is used to request an output report of performance monitoring counts for all in-service VT1.5 facilities on an STS-1 facility (with ALLVT1 request) or all in-service DS1 facilities on an STS-1 facility (with ALLDS1 request).

Caution: Requesting counts for all VT1.5 or DS1 facilities on an STS-1 facility will generate four or more pages of ROP output if all 28 facilities are in-service.

2. FORMAT

[1]   OP:FAC,DFAC=a-b-c-0;

[3] OP:FAC,DFI=a-b-c,ACS;
[4] OP:FAC,DLTU=a-b,ACS;
[5] OP:FAC,DFAC=a-b-c-d[,CURR][,PREV][,HIST];
[6] OP:FAC,DFI=a-b-c[,CURR][,PREV];
[7] OP:FAC,DLTU=a-b[,CURR][,PREV];
[8] OP:FAC,IDCU=a-e[,CURR][,PREV][,COND][,(NE|BOTH)];
[9] OP:FAC,IFAC=a-e-f[,CURR][,PREV][,HIST][,(NE|FE|BOTH)];
[10] OP:FAC,(DNUSRT=a-h-g|IDCURT=a-e-g)[,CURR][,PREV][,(FE|BOTH)];
[12] OP:FAC,IDCU=a-e[,ACS];
[13] OP:FAC,(DNUSRT=a-h-g|IDCURT=a-e-g)[,ACS];
[14] OP:FAC,IFAC=a-e-f[,ACS];
[15] OP:FAC,DNUS=a-h,ACS;
[16] OP:FAC,EC1STE=a-h-i-j,ACS;
[17] OP:FAC,VT1FAC=a-h-i-j-k-l-m,ACS;
[18] OP:FAC,DS1SFAC=a-h-i-j-k-l-m,ACS;
[19] OP:FAC,DNUS=a-h[,CURR][,PREV][,COND];
[20] OP:FAC,EC1STE=a-h-i-j[,CURR][,PREV][,HIST];
[21] OP:FAC,STS1SFAC=a-h-i-j-k,ALLVT1|ALLDS1[,CURR][,PREV][,COND]. . .
     [.,(NE|FE|BOTH)];
[22] OP:FAC,VT1FAC=a-h-i-j-k-l-m[,CURR][,PREV][,HIST]. . .
     [.,(NE|FE|BOTH)];
[23] OP:FAC,DS1SFAC=a-h-i-j-k-l-m[,CURR][,PREV][,HIST]. . .
     [.,(NE|FE|BOTH)];
[24] OP:FAC,OIU=a-n,ACS;
[25] OP:FAC,OC3=a-n-o-p-q,ACS;
[26] OP:FAC,STS1=a-n-o-p-r,ACS;
[27] OP:FAC,VT15=a-n-o-p-r-l-m,ACS;
[28] OP:FAC,DS1=a-n-o-p-r-l-m,ACS;
[29] OP:FAC,OIU=a-n[,CURR][,PREV][,(NE|FE|BOTH)][,COND];
[30] OP:FAC,OC3=a-n-o-p-q[,CURR][,PREV][,HIST][,(NE|FE|BOTH)];
3. EXPLANATION OF MESSAGE

**ACS**
= Report the requested unit’s last requested or current alert report inhibit/allow status requested using the input message. Recent changeable alert inhibits may be in effect that override input message requested allows.

**BOTH**
= Report counts from both ends of a facility. If the requested facility has only NE and the BOTH option used, then the request is processed for the NE.

**COND**
= Conditional request. Report only those facilities that have reported a 15-minute threshold crossing during the current interval or a daily threshold crossing during the current day. Refer to the REPT:FAC output message.

**CURR**
= Report all current 15-minute and day counts (default).

**FE**
= Far end. Report counts from the far end of a facility only.

**HIST**
= Report all 32 15-minute interval history counts. For OIU facilities, report all 31 15-minute history counts (the previous 15-minute count is not included in the history interval counts for OIU facilities).

Requesting HIST counts will generate 3 or more pages of ROP output to report all of the history intervals.

**NE**
= Near end. Report counts from the switch end of the facility only.

**PREV**
= Report all previous 15-minute and day counts. The previous 15-minute count is the same count as the first of the 32 history interval counts for non-OIU facilities. For OIU facilities, the previous 15-minute count is not included with the history interval counts.

a  = SM number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

b  = DLTU number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

c  = DFI number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

d  = DFI-2 facility number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

e  = IDCU number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
f = Integrated digital carrier unit (IDCU) facility (IFAC) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

g = TR303 RT number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

h = DNU-S number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

i = Data group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

j = STE facility number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

k = STS facility number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

l = Virtual tributary group (VTG) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

m = Virtual tributary member (VTM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

n = OIU number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

o = Protection group (PG) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

p = OC3 number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

q = Side number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

r = STS1 number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

NG = No good. The input contained an illegal specification.

PF = Printout follows. The request has been accepted and the OP:FAC output message follows.

RL = Retry later. The request has been denied, probably due to system load.

5. REFERENCES

Input Message(s):

ALW:FAC
INH:FAC
INIT:FAC
OP:FAC-C

Software Release: 5E16(2) and later
Command Group: TRKLN
Application: 5
Type: Input

1. PURPOSE

Requests output of the contents of the performance monitoring (PM) data for facilities terminated on a digital facility interface (DFI), DFI model 2 (DFI-2), integrated digital carrier unit (IDCU), optical interface unit (OIU), or a digital networking unit - synchronous optical network (SONET) (DNU-S) number. Also requests output of the PM measurement data for packet protocol layers associated with a session initiation protocol (SIP) protocol handler (PH).

The command is also used to request output of the vacant DS1 trunking facilities terminated on a digital line and trunk unit (DLTU), peripheral control and timing (PCT) line and trunk unit (PLTU), DNU-S, or OIU.

Format 1 is used to request an output report of performance monitoring counts for a specific DFI facility. This format is used to support early model DFIs such as ANN1, ANN3(B), and so forth. (Such a DFI is sometimes known as a DFI-1.)

Format 2 is used to request the current user input message requested ACS on a specified DFAC facility. The OP:FAC output message indicates the DFAC's current input message requested ACS. (If the ACS is inhibited for the entire SM, the OP:FAC output message will indicate the SM's current ACS rather than the DFAC's.)

Format 3 is used to request the current user input message requested ACS on a specified DFI-2 facility. The OP:FAC output message indicates the DFI-2's current input message requested ACS. (If the ACS is inhibited for the entire SM, the OP:FAC output message will indicate the SM's current ACS rather than the DFI-2's.)

Format 4 is used to request the current user input message requested ACS on a specified DLTU2 facility. The OP:FAC output message indicates the DLTU2's current input message requested ACS. (If the ACS is inhibited for the entire SM, the OP:FAC output message will indicate the SM's current ACS rather than the DLTU2's.)

Format 5 is used to request an output report of performance monitoring counts for DFI-2 facilities (DFACs).

Format 6 is used to request an output report of performance monitoring counts for all DFI-2 facilities terminated on a given DFI-2.

Format 7 is used to request an output report of performance monitoring counts for all DFI-2 facilities terminated on a given digital line and trunk unit model 2 (DLTU2).

Format 8 is used to request an output report of performance monitoring counts for an IDCU facility (IFAC).

Format 9 is used to request an output report of performance monitoring counts for all in-service facilities on an IDCU.

CAUTION: Requesting counts for all facilities on the IDCU will generate four or more pages of ROP output if the IDCU is fully equipped.

Use the conditional option to report only those facilities that have generated an interval alert during the current 15-minute interval or daily alert during the current performance monitoring day.

Format 10 is used to request an output report of performance monitoring counts for all facilities on an IDCU-supported or a DNU-S supported TR303 remote terminal (RT).

Format 11 is used to request the current user input message requested alert control status (ACS) on the specified
switching module (SM). (The REPT:FAC output message describes the alert report.) The OP:FAC output message indicates the SM's current input message requested ACS. Recent changeable alert inhibits for the entire switch (RC/V View 8.1) or individual facilities (RC/V View 20.23, 20.25, 20.32 or 22.15) override the input message requested 'allows'. Also, input message requested inhibit for the SM overrides any input message requested allows on the DFAC, DFI-2, DLTU2, IDCU, TR303 RTs, IFACs, DNU-S, OIU or SIP-T PHs.

Format 12 is used to request the last user requested ACS on the specified IDCU. (The REPT:FAC output message describes the alert report.) The OP:FAC output message indicates the IDCU's last input message requested ACS. Even though interval and/or daily alerts may be reported as inhibited or allowed for the IDCU, subsequent requests to inhibit/allow reports for TR303 RTs or individual IFACs may have changed the input message alert control status for some of the IDCU's facilities. Recent changeable alert inhibits for the entire switch (RC/V View 8.1) or individual facilities (RC/V Views 20.15 and 20.23) override any input message requested 'allows'.

Format 13 is used to request the last user input message requested ACS on the specified TR303 RT. (The REPT:FAC output message describes the alert report.) The OP:FAC output message indicates the RT's last input message requested ACS. Even though interval and/or daily alerts may be reported as inhibited or allowed for the RT, subsequent requests to inhibit/allow reports for the transport unit (such as, IDCU, DNU-S) or individual facilities may have changed the input message alert control status for some or all of the RT's facilities. Recent changeable alert inhibits for the entire switch (RC/V View 8.1) or individual facilities (RC/V Views 20.15 and 20.23) override any input message requested 'allows'.

Format 14 is used to request the current user input message requested ACS on the specified IFAC. (The REPT:FAC output message describes the alert report.) The OP:FAC output message indicates the IFACs current input message requested ACS. The status reported for an IFAC represents a summary of all IDCU, TR303 RT and IFAC input message inhibit/allow requests. Recent changeable alert inhibits for the entire switch (RC/V View 8.1) or individual facilities (RC/V Views 20.15 and 20.23) override any input message requested 'allows'.

Format 15 is used to request the current user input message requested ACS on the specified DNU-S. The OP:FAC output message indicates the DNU-S's current input message requested ACS.

Format 16 is used to request the current user input message requested ACS on a specified DNU-S SONET termination equipment (STE) facility number. The OP:FAC output message indicates the STE's current input message requested ACS. (If the ACS is inhibited for the entire SM, the OP:FAC output message will indicate the SM's current ACS rather than the STE's.)

Format 17 is used to request the current user input message requested ACS on a specified DNU-S virtual tributary 1.5 (VT1.5) facility. The OP:FAC output message indicates the VT1.5's current input message requested ACS. (If the ACS is inhibited for the entire SM, the OP:FAC output message will indicate the SM's current ACS rather than the VT1.5's.)

Format 18 is used to request the current user input message requested ACS on a specified DNU-S digital signal level-1 (DS1) facility. The OP:FAC output message indicates the DS1's current input message requested ACS. (If the ACS is inhibited for the entire SM, the OP:FAC output message will indicate the SM's current ACS rather than the DS1's.)

Format 19 is used to request an output report of performance monitoring counts for all in-service STE facilities on a DNU-S.

Format 20 is used to request an output report of performance monitoring counts for a specified DNU-S STE facility.

Format 21 is used to request an output report of performance monitoring counts for all in-service VT1.5 facilities on a synchronous transport signal (STS-1) facility (with ALLVT1 request) or all in-service DS1 facilities on an STS-1 facility (with ALALLDS1 request).

**CAUTION:** Requesting counts for all VT1.5 or DS1 facilities on an STS-1 facility will generate four or more pages of
ROP output if all 28 facilities are in-service.

Format 22 is used to request an output report of performance monitoring counts for a specified DNU-S VT1.5 facility.

Format 23 is used to request an output report of performance monitoring counts for a specified DNU-S DS1 facility.

Format 24 is used to request the current user input message requested ACS on the specified OIU. The OP:FAC output message indicates the OIU's current input message requested ACS. (If the ACS is inhibited for the entire SM, the OP:FAC output message will indicate the SM's current ACS rather than the OIU's.)

Format 25 is used to request the current user input message requested ACS on a specified OIU optical carrier level 3 (OC3) facility number. The OP:FAC output message indicates the OC3's current input message requested ACS. (If the ACS is inhibited for the entire SM, the OP:FAC output message will indicate the SM's current ACS rather than the OC3's.)

Format 26 is used to request the current user input message requested ACS on a specified OIU synchronous transport signal level 1 (STS1) facility. The OP:FAC output message indicates the STS1's current input message requested ACS. (If the ACS is inhibited for the entire SM, the OP:FAC output message will indicate the SM's current ACS rather than the STS1's.)

Format 27 is used to request the current user input message requested ACS on a specified OIU virtual tributary 1.5 (VT1.5) facility. The OP:FAC output message indicates the VT1.5's current input message requested ACS. (If the ACS is inhibited for the entire SM, the OP:FAC output message will indicate the SM's current ACS rather than the VT1.5's.)

Format 28 is used to request the current user input message requested ACS on a specified OIU digital signal level 1 (DS1) facility. The OP:FAC output message indicates the DS1's current input message requested ACS. (If the ACS is inhibited for the entire SM, the OP:FAC output message will indicate the SM's current ACS rather than the DS1's.)

Format 29 is used to request an output report of performance monitoring counts for the selected side, in-service OC3 facilities for each protection group on an OIU.

Format 30 is used to request an output report of performance monitoring counts for a specified OC3 facility on an OIU.

Format 31 is used to request an output report of performance monitoring counts for a specified STS1 facility on an OIU.

Format 32 is used to request an output report of performance monitoring counts for a specified VT1.5 facility on an OIU.

Format 33 is used to request an output report of performance monitoring counts for a specified DS1 facility on an OIU.

Format 34 is used to request an output report of performance monitoring counts for all in-service VT1.5 facilities on a synchronous transport signal (STS-1) facility (with ALLVT1 request) or all in-service DS1 facilities on an STS-1 facility (with ALLDS1 request).

**CAUTION:** Requesting counts for all VT1.5 or DS1 facilities on an STS-1 facility will generate four or more pages of ROP output if all 28 facilities are in-service.

Format 35 is used to request the current user input message requested ACS on a specified OIU optical carrier level 3 concatenated (OC3C) facility number. The OP:FAC output message indicates the OC3C's current input message requested ACS. (If the ACS is inhibited for the entire SM, the OP:FAC output message will indicate the SM's current ACS rather than the OC3C's.)
Format 36 is used to request the current user input message requested ACS on a specified OIU synchronous transport signal level 3 concatenated (STS3C) facility. The OP:FAC output message indicates the STS3C's current input message requested ACS. (If the ACS is inhibited for the entire SM, the OP:FAC output message will indicate the SM's current ACS rather than the STS3C's.)

Format 37 is used to request an output report of performance monitoring counts for a specified OC3C facility on an OIU.

Format 38 is used to request an output report of performance monitoring counts for a specified STS3C facility on an OIU.

Format 39 is used to request an output report of the vacant DS1 trunking facilities on DLTU, PLTU, DNU and OIU.

Format 40 is used to request the current user input message requested ACS on a specified OIU PPP link (PPPLK). The OP:FAC output message indicates the PPPLK's current input message requested ACS. (If the ACS is inhibited for the entire SM, the OP:FAC output message will indicate the SM's current ACS rather than the PPPLK's.)

Format 41 is used to request an output report of performance monitoring counts for a protocol layer or protocol layers associated with the specified OIU PPP link. If no protocol layer is specified, performance monitoring counts for all protocol layers associated with the PPP link will be output. A request for history performance monitoring counts will only be allowed if counts for a specific protocol layer are to be output. A request for performance monitoring counts for all protocol layers will not allow the history count option.

Format 42 is used to request an output report of performance monitoring counts for the extended access interface unit (EAIU) timeslot group (TSGRP).

Format 43 is used to request the current ACS on the specified PSU. If the ACS is inhibited for the entire SM, the OP:FAC output message will indicate the SM's current ACS rather than the PSU's. Recent changeable alert inhibits for the entire switch (RC/V View 8.1) or individual facilities (RC/V View 20.32) override any input message requested 'allows'.

Format 44 is used to request the current ACS on a specified SIP PH (other PHs are not allowed). If the ACS is inhibited for the entire SM, the OP:FAC output message will indicate the SM's current ACS rather than the SIP PH's. Recent changeable alert inhibits for the entire switch (RC/V View 8.1) or individual facilities (RC/V View 20.32) override any input message requested 'allows'.

Format 45 is used to request the performance monitoring counts for a protocol layer associated with the specified SIP PH. If no protocol layer is specified, performance monitoring counts for all protocol layers associated with the SIP PH will be output. A request for history performance monitoring counts will only be allowed if counts for a specific protocol layer are to be output. A request for performance monitoring counts for all protocol layers will not allow the history count option.

2. FORMAT

[1] OP:FAC,DFAC=a-b-c-0;


[3] OP:FAC,DFI=a-b-c,ACS;

[4] OP:FAC,DLTU=a-b,ACS;
[5] OP:FAC,DFAC=a-b-c-d[,CURR][,PREV][,HIST];

[6] OP:FAC,DFI=a-b-c[,CURR][,PREV];

[7] OP:FAC,DLTU=a-b[,CURR][,PREV];

[8] OP:FAC,IDCU=a-e[,CURR][,PREV][,COND][,u];

[9] OP:FAC,IFAC=a-e-f[,CURR][,PREV][,HIST][,u];

[10] OP:FAC,(DNUSRT=a-h-g|IDCURT=a-e-g)[,CURR][,PREV][,u];


[12] OP:FAC,IDCU=a-e[,ACS];

[13] OP:FAC,(DNUSRT=a-h-g|IDCURT=a-e-g)[,ACS];

[14] OP:FAC,IFAC=a-e-f[,ACS];

[15] OP:FAC,DNUS=a-h,ACS;

[16] OP:FAC,EC1STE=a-h-i-j,ACS;

[17] OP:FAC,VT1FAC=a-h-i-j-k-l-m,ACS;

[18] OP:FAC,DS1SFAC=a-h-i-j-k-l-m,ACS;

[19] OP:FAC,DNUS=a-h[,CURR][,PREV][,COND];

[20] OP:FAC,EC1STE=a-h-i-j[,CURR][,PREV][,HIST];

[21] OP:FAC,STSFAC=a-h-i-j-k,ALLVT1|ALLDS1[,CURR][,PREV]...[,COND][,u];

[22] OP:FAC,VT1FAC=a-h-i-j-k-l-m[,CURR][,PREV][,HIST][,u];

[23] OP:FAC,DS1SFAC=a-h-i-j-k-l-m[,CURR][,PREV][,HIST][,u];
[24] OP:FAC,OIU=a-n,ACS;

[25] OP:FAC,OC3=a-n-o-p-q,ACS;

[26] OP:FAC,STS1=a-n-o-p-r,ACS;

[27] OP:FAC,VT15=a-n-o-p-r-l-m,ACS;

[28] OP:FAC,DS1=a-n-o-p-r-l-m,ACS;

[29] OP:FAC,OIU=a-n[,CURR][,PREV][,u][,COND];

[30] OP:FAC,OC3=a-n-o-p-q[,CURR][,PREV][,HIST][,u];

[31] OP:FAC,STS1=a-n-o-p-r[,CURR][,PREV][,HIST][,u];

[32] OP:FAC,VT15=a-n-o-p-r-l-m[,CURR][,PREV][,HIST][,u];

[33] OP:FAC,DS1=a-n-o-p-r-l-m[,CURR][,PREV][,HIST][,u];

[34] OP:FAC,STS1=a-n-o-p-r,ALLVT1|ALLDS1[,CURR][,PREV] . .
   . .[,COND][,u];

[35] OP:FAC,OC3C=a-n-o-s-q,ACS;

[36] OP:FAC,STS3C=a-n-o-s-t,ACS;

[37] OP:FAC,OC3C=a-n-o-s-q[,CURR][,PREV][,HIST][,u];

[38] OP:FAC,STS3C=a-n-o-s-t[,CURR][,PREV][,HIST][,u];

[39] OP:FAC,VAC[,SM=w[&x]];
3. EXPLANATION OF MESSAGE

ACS = Report the requested unit’s last requested or current alert report inhibit/allow status requested using the input message. Recent changeable alert inhibits may be in effect that override input message requested allows.

COND = Conditional request. Report only those facilities that have reported a 15-minute threshold crossing during the current interval or a daily threshold crossing during the current day. Refer to the REPT:FAC output message.

CURR = Report all current 15-minute and day counts (default).

HIST = Report all 32 15-minute interval history counts. For OIU facilities, report all 31 15-minute history counts (the previous 15-minute count is not included in the history interval counts for OIU facilities). Requesting HIST counts will generate 3 or more pages of ROP output to report all of the history intervals.

PREV = Report all previous 15-minute and day counts. The previous 15-minute count is the same count as the first of the 32 history interval counts for non-OIU facilities. For OIU facilities, the previous 15-minute count is not included with the history interval counts.

VAC = Report vacant DS1 trunking facilities.

a = SM number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

b = DLTU number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

c = DFI number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

d = DFI-2 facility number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

e = IDCU number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

f = Integrated digital carrier unit (IDCU) facility (IFAC) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

g = TR303 RT number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
h = DNU-S number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

i = Data group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

j = STE facility number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

k = STS facility number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

l = Virtual tributary group (VTG) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

m = Virtual tributary member (VTM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

n = OIU number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

o = Protection group (PG) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

p = OC3 number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

q = Side number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

r = STS1 number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

s = OC3C number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

t = STS3C number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

u = Type of report counts. Valid value(s):
   BOTH = Report counts from both ends of a facility. If the requested facility has only NE or only FE and the BOTH option is used, then the request is processed for only the available option.
   FE = Far end. Report counts from the far end of a facility only.
   NE = Near end. Report counts from the switch end of the facility only.

v = Protocol layer. Valid value(s):
   ICMP = Internet control message protocol layer.
   IP = Internet protocol layer.
   PPP = Point-to-point protocol layer.
   RTP = Real-time transport protocol layer.
   UDP = User datagram protocol layer.
Switching module (SM) number or lower limit of a range of SM numbers.

Upper limit of a range of SM numbers.

EAIU number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

Common data and control controller (COMDAC) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

TSGRP number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

PSU number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

Shelf number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

Protocol handler number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

SIP protocol layer. Valid value(s):

- ETH = Ethernet link layer.
- ICMP = Internet control message protocol layer.
- IP = Internet protocol layer.
- SCTP = Stream control transmission protocol layer.
- SIP = Session initiation protocol layer.

4. SYSTEM RESPONSE

NG = No good. The input contained an illegal specification.

PF = Printout follows. The request has been accepted and the OP:FAC output message follows.

RL = Retry later. The request has been denied, probably due to system load.

5. REFERENCES

Input Message(s):

ALW:FAC
INH:FAC
INIT:FAC
INIT:REG
OP:REG

Output Message(s):

INIT:FAC
INIT:REG
OP:FAC
Input Appendix(es):

APP : RANGES

Other Manual(s):
235-105-220  Corrective Maintenance

RC/V View(s):
8.1  OFFICE PARAMETERS (MISCELLANEOUS)
20.12 STS-1 FACILITY PROVISIONING (DNU-S)
20.23 IDCU FACILITY EQUIPMENT (IFAC)
20.24 VT1.5 FACILITY PROVISIONING (DNU-S)
20.25 DNU-S PERFORMANCE MONITORING THRESHOLD GROUP (SM2000)
20.29 OIU SONET TERMINATION EQUIPMENT (SM2000)
20.30 HIGH-LEVEL VIRTUAL CONTAINER (OIU)
20.31 LOW-LEVEL VIRTUAL CONTAINER (OIU)
20.32 PERFORMANCE MONITORING THRESHOLD GROUP (OIU, SIP PSUPH)
22.15 PERFORMANCE MONITORING (DLTU)
33.16 SIP-T PROCESSOR GROUP
OP:FACMAP

Software Release: 5E14 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Request output containing the busy/idle status of umbilical T1 facility channels between a host switching module (HSM) and remote switching module (RSM). This message does not support intercluster link (ICL) facilities.

2. FORMAT

OP:FACMAP,FAC=a-b-c-d;

3. EXPLANATION OF MESSAGE

a = Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

b = Digital line and trunk unit (DLTU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

c = Digital facility interface (DFI) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

d = Facility (FAC) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

NG = No good. May also include:
   - DATABASE READ FAILURE = Failure in reading database for this facility.
   - FACILITY IS NOT AN UMBILICAL FACILITY = Facility is not an HSM to/from an RSM umbilical facility.
   - UNIT DOES NOT EXIST = Bad DLTU number.

PF = Printout follows. The request has been accepted and is being processed. The OP:FACMAP output message will follow.

RL = Retry later.

5. REFERENCES

Output Message(s):

   OP:FACMAP

Input Appendix(es):
APP: RANGES

Other Manual(s):
235-105-220  Corrective Maintenance Manual
235-105-250  System Recovery Manual
OP:FACR

Software Release: 5E14 and later
Command Group: FHADM
Application: 5
Type: Input

1. PURPOSE

Requests for a report on either the state of the feature activation counting and reconciliation (FACR) audit or what
scheduled requests have been made for execution of the FACR audit.

2. FORMAT

OP:FACR:{SCHED|STATUS},{[APPL=a];

3. EXPLANATION OF MESSAGE

SCHED = Request for a print out of all the scheduled FACR entries.
STATUS = Request for a report on the status of the FACR audit.
APPL = Request refers to a FACR special application audit.
a = APPLICATION name of special audit to schedule/check status of.

4. SYSTEM RESPONSE

PF = Printout follows. Followed by the OP:FACR output message.

5. REFERENCES

Input Message(s):

DEL:FACR
SCHED:FACR

Output Message(s):

OP:FACR

Other Manual(s):
235-040-100 OA&M Planning Guide
235-100-125 System Description
235-105-210 Routine Operations and Maintenance
OP:FNAME

Software Release: 5E14 and later
Command Group: FHADM
Application: 5,3B
Type: Input

1. PURPOSE

Reports the full pathname of a file in a mounted file system. This input message, used to analyze data produced by the FSBLK and FSLINK file system audits, provides pathnames based on the entry of inode or block numbers.

2. FORMAT

OP:FNAME,FN="a", {INODE|BLOCK}=b[&c];

3. EXPLANATION OF MESSAGE

a = The full pathname of the file system. Note that quotation marks are required.

b = Inode or block number; or the lower limit of a range (0-546048) of inode or block numbers.

Note: If an INODE number is specified, the minimum value of 'b' is two.

c = The upper limit of a range of inode or block number of a range (0-546048).

4. SYSTEM RESPONSE

Entry of this message may produce one or more of the following system responses. RL responses will only appear if the input message catalog is not active.

RL = Retry later. May also include:

- CANNOT CHANGE DIRECTORY TO /dev = Unable to change working directory to /dev.
- CANNOT FIND FILE SYSTEM = Unable to find the first directory of the mounted file system.
- CANNOT OPEN FILE SYSTEM = Cannot open the file system at its mount point.
- CANNOT READ SUPERBLOCK = Unable to read the superblock for the file system.
- CANNOT SEEK TO SUPERBLOCK = Unable to seek to the file system’s superblock.
- MOUNT TABLE ERROR = Unable to obtain the mount table from the file manager.

?D =

- INCONSISTENT DATA1 = The greater value must be equal to or larger than the lower value in the range.
- INVALID CHARACTER1 = The first or only range value is not an integer.
- INVALID CHARACTER2 = The last range value is not an integer.
- INVALID KEYWORD 1 = FN must be the first keyword.
- INVALID KEYWORD 2 = INODE or BLOCK must be the second keyword.
- MISSING DATA1 = No file system name given.
- MISSING DATA2 = No inode or block # given.
- MISSING KEYWORD 1 = FN must appear after FNAME.
- MISSING KEYWORD 2 = Either INODE or BLOCK must be entered.
- RANGE ERROR 1, 'a' = File system requested does not exist. 'a' is the value entered.
- RANGE ERROR 4 = Reason for error:
- The lower or only INODE value is less than two.
- The greater or only INODE value is larger than the maximum allowed in the file system.

- RANGE ERROR 5 = The greater or only BLOCK value is larger than the maximum allowed in the file system.
- RANGE ERROR 6 = The lower or only BLOCK value is less than the minimum allowed in the file system.

5. REFERENCES

Input Message(s):

AUD:FSBLK
AUD:FSLINK

Output Message(s):

AUD:FSBLK
AUD:FSLINK
OP:FNAME

Other Manual(s):
235-105-110 System Maintenance Requirements and Tools
235-105-210 Routine Operations and Maintenance
235-105-220 Corrective Maintenance
235-600-400 Audits
OP:G-APPLLOG

Software Release: 5E14 and later
Command Group: SFTMGT
Application: 5
Type: Input

1. PURPOSE

Requests output of the application hook (APPLHOOK) process log file. Used if problems occur during retrofit or update.

2. FORMAT

OP:GEN:APPLLOG;

3. EXPLANATION OF MESSAGE

No variables.

4. SYSTEM RESPONSE

PP = Printout follows. The APPLHOOK log file will be printed. Process not initiated.

5. REFERENCES

Input Message(s):

OP:G-READLOG
UPD:G-BEGIN
UPD:G-BACKOUT
UPD:G-COMMIT
UPD:G-END
UPD:G-ENTER
UPD:G-PROCEED
UPD:G-RESTORE

Other Manual(s):

Where 'x' is the release-specific version of the document.

235-105-34x Generic Update Procedures
OP:G-READHDR

Software Release: 5E14 and later
Command Group: SFTMGT
Application: 5
Type: Input

1. PURPOSE

Requests that tape header information and, if present, a volume table of contents (VTOC) be read from a load-disk-from-tape (LDFT) formatted tape and output to the receive-only printer (ROP). The data is also written to a file in the /etc/log directory. The data file is used during a software release transition for tape loading.

2. FORMAT

OP:GEN:READHDR[,MT0|MT1|,RESET];

3. EXPLANATION OF MESSAGE

MT0 = Select tape drive zero (default).
MT1 = Select tape drive one.
RESET = Remove the data file written by a previous OP:G-READHDR request from the /etc/log directory.

4. SYSTEM RESPONSE

NG = No good. The request was denied because of an illegal option, or illegal combination of options.
PF = Printout follows.

5. REFERENCES

Input Message(s):

OP:G-READLOG
STOP:GEN
UPD:G-APPLPROC
UPD:G-BACKOUT
UPD:G-BEGIN
UPD:G-COMMIT
UPD:G-CONTINUE
UPD:G-END
UPD:G-ENTER
UPD:G-PROCEED
UPD:G-RESTORE
UPD:G-SMBKOUT
UPD:G-SMSWITCH
UPD:G-SWITCHBCK
UPD:G-SWITCHFWD

Output Message(s):
Other Manual(s):

Where ‘x’ is the release-specific version of the document.

235-105-24x  Software Release Retrofit
235-105-34x  Software Release Update
235-105-44x  Large Terminal Growth

MCC Display Page(s):

124 (RETROFIT)
OP:G-READLOG

Software Release: 5E14 and later
Command Group: SFTMGT
Application: 5,3B
Type: Input

1. PURPOSE

Requests output of the central processor or administrative module system update event log. This is used if problems occur while updating the system to determine the current state of affairs.

2. FORMAT

OP:GEN:READLOG;

3. EXPLANATION OF MESSAGE

No variables.

4. SYSTEM RESPONSE

NG = No good. Process not initiated.
PF = Printout follows. Followed by the OP:GEN-READLOG output message.

5. REFERENCES

Input Message(s):

UPD:G-BACKOUT
UPD:G-COMMIT
UPD:G-ENTER
UPD:G-PROCEED
UPD:G-RESTORE

Output Message(s):

OP:GEN-READLOG
UPD:GEN-BACKOUT
UPD:GEN-COMMIT
UPD:GEN-ENTER
UPD:GEN-PROCEED
UPD:GEN-RESTORE
OP:GENBKUP-LAST

Software Release: 5E14 and later
Command Group: FHADM
Application: 5
Type: Input

1. PURPOSE

Requests that records of the last successful office backup activities using GENBKUP (the automated office backup procedure) be printed.

This message prints the same information (such as, when the last AM text backup tape was made) displayed on screen at the start of GENBKUP process without going into GENBKUP process.

2. FORMAT

OP:GENBKUP-LAST;

3. EXPLANATION OF MESSAGE

No variables.

4. SYSTEM RESPONSE

PF = Printout follows. Followed by the OP:GENBKUP-LAST output message.

5. REFERENCES

Input Message(s):

RCV:M-GENBKUP

Output Message(s):

OP:GENBKUP-LAST

Other Manual(s):

235-105-210  Routine Operations and Maintenance
OP:GROW

**Software Release:** 5E14 and later  
**Command Group:** AM  
**Application:** 5,3B  
**Type:** Input

1. **PURPOSE**

Provides a list of all administrative module (AM) hardware units currently in the growth maintenance state. This format provides a list of all growth units of a particular type.

2. **FORMAT**

   OP:GROW[, {a=b [,c=d ]}];

3. **EXPLANATION OF MESSAGE**

   a = Unit name. AM unit names are listed in the APP:MEM-NUM-UNIT appendix in the Appendixes section of the Input Messages manual.

   b = Unit number. Refer to the APP:MEM-NUM-UNIT appendix in the Appendixes section of the Input Messages manual.

   c = Subunit name, if a=CU. AM control unit (CU) subunit names are listed in the APP:MEM-NUM-CU appendix in the Appendixes section of the Input Messages manual.

   d = Subunit number. Refer to the APP:MEM-NUM-CU appendix in the Appendixes section of the Input Messages manual.

4. **SYSTEM RESPONSE**

   PF = Printout follows. Followed by the OP:GROW output message.

   RL = Retry later.

5. **REFERENCES**

   **Input Message(s):**

   OP:CFGSTAT-3B

   **Input Appendix(es):**

   APP:MEM–NUM–CU  
   APP:MEM–NUM–UNIT

   **Output Message(s):**

   OP:CFGSTAT  
   OP:GROW
46. OP:H
OP:HDWCHK-A

Software Release: 5E14 only
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Requests a printout of the hardware check status of the specified unit or set of units.

2. FORMAT

\[ \text{OP:HDWCHK, \{CM|MPCU=a|MMP=a-b|CMP=a-b|QGP=a-b|FPC=a|PPC=a|ONTC=c\} NCREF,\{XC=c|PRIM=c|SEC=c|REFf=c\}|CLNK=d-c-e-a}; \]

3. EXPLANATION OF MESSAGE

- **CM** = Provide the hardware check status for all of the above communication module (CM) units that are in service but have hardware checks inhibited.
- **a** = (MSCU) Message switch number for message switch control unit, (MMP) module message processor, (CMP) communication module processor, (QGP) quad-link packet switch gateway processor, (FPC) foundation peripheral controller, (PPC) pump peripheral controller, or (CLNK) communication link. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
- **b** = Unit number.
- **c** = Office network and timing complex (ONTC) number for ONTC, cross-couple reference (XC), primary reference (PRIM), secondary reference (SEC), or CLNK. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
- **d** = Switching module (SM) number for CLNK. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
- **e** = Type of module message processor for CLNK. Valid value(s):
  - 0 = MMP handling the even control time slot associated with the SM.
  - 1 = MMP handling the odd control time slot associated with the SM.
- **f** = Network clock reference number.

4. SYSTEM RESPONSE

- **NG** = No good. The request has been denied. The message syntax is valid, but the request could not be processed. Refer to the APP:CM-IM-REASON appendix in the Appendixes section of the Input Messages manual for a list of possible reasons for denying the request.
- **PF** = Printout follows. Followed by the OP:HDWCHK output message.

5. REFERENCES
Output Message(s):

OP : HDWCHK

Input Appendix(es):

APP : CM–IM–REASON
APP : RANGES

Other Manual(s):

235-105-220  Corrective Maintenance
235-105-250  System Recovery Procedures
OP:HDWCHK-B

Software Release: 5E15 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Requests a printout of the hardware check status of the specified unit or set of units.

2. FORMAT

OP:HDWCHK, {CM|MSCU=a|MMP=a-b|CMP=a-b|QGP=a-b|FPC=a|PPC=a|ONTC=c|NCREF, (XC=c|PRIM=c|SEC=c)|CLNK=d-c-e-a};

3. EXPLANATION OF MESSAGE

CM = Provide the hardware check status for all of the above communication module (CM) units that are in service but have hardware checks inhibited.

a = (MSCU) Message switch number for message switch control unit, (MMP) module message processor, (CMP) communication module processor, (QGP) quad-link packet switch gateway processor, (FPC) foundation peripheral controller, (PPC) pump peripheral controller, or (CLNK) communication link. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

b = Unit number.

c = Office network and timing complex (ONTC) number for ONTC, cross-couple reference (XC) of network clock model 1 or 2, primary reference (PRIM) of network clock model 1, secondary reference (SEC) of network clock model 1, or CLNK. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

d = Switching module (SM) number for CLNK. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

e = Type of module message processor for CLNK. Valid value(s):
0 = MMP handling the even control time slot associated with the SM.
1 = MMP handling the odd control time slot associated with the SM.

f = Network clock reference number.

4. SYSTEM RESPONSE

NG = No good. The request has been denied. The message syntax is valid, but the request could not be processed. Refer to the APP:CM-IM-REASON appendix in the Appendixes section of the Input Messages manual for a list of possible reasons for denying the request.

PF = Printout follows. Followed by the OP:HDWCHK output message.

5. REFERENCES
Output Message(s):

   OP: HDWCHK

Input Appendix(es):

   APP: CM-IM-REASON
   APP: RANGES

Other Manual(s):
235-105-220  Corrective Maintenance
235-105-250  System Recovery Procedures
OP:HIST

Software Release: 5E14 and later
Command Group: NOCHK
Application: 5
Type: Input

1. PURPOSE

The OP:HIST input request prints a range of the stored requests from the history buffer to the terminal. OP:HIST gives the user the ability to review a section of the stored requests available in the command history buffer, and identify their associated numbers. The user may then recall a stored request using the associated number.

OP:HIST will be honored if any portion of the applicable range is available in the command history buffer. This permits the user to hunt for a stored request without having to be completely within the available range of associated numbers.

Format 1 outputs the last 15 of the available stored requests.

Format 2 outputs the available stored requests from the specified range of 'a' to 'b'. The 'b' parameter is optional. If only the 'a' parameter is given, the range will be 'a' to 'a'+15.

Format 3 outputs the last 'c' of the available stored requests. If fewer than 'c' requests are available, the request is applied to the available ones.

Format 4 outputs all of the available stored requests. This can be up to 200 requests, so discretion is advised. For additional information about the use of the history function, refer to the "Input Message Edit and History" portion of the USER GUIDELINES section of the Input Messages manual.

2. FORMAT

[1] OP:HIST;
[2] OP:HIST, CMD=a[&&b];

3. EXPLANATION OF MESSAGE

a = Lowest associated number for requested range.
b = Highest associated number for requested range (optional).
c = Number of most recently stored requests to output.
d = Lowest number of the available range.
e = Highest number of available range.

4. SYSTEM RESPONSE

NG = No good. The requests could not be output, the request is rejected. Rejection reasons are:
- FILE OPEN FAILURE = The output file could not be opened.
- NO COMMANDS ARE STORED = There are no stored input requests.
- RANGE UNAVAILABLE, CMD d TO e = The range requested does not have any intersection with the available associated number range. The available range is given to aid the user for another attempt.

PF = Printout follows. The request was accepted and is followed by the OP:HIST output message.

5. REFERENCES

Input Message(s):

ALW:HIST
CLR:HIST
INH:HIST

Output Message(s):

OP:HIST
OP:HISTORY-A

Software Release: 5E14 only
Command Group: SYSRCVY
Application: 5
Type: Input

1. PURPOSE

Requests the printing of the most recently retained (logged) output reports and/or the event history from the specified packet interface (PI) of the module controller time slot interchanger (MCTSI) or from the specified packet switching unit protocol handler (PSUPH). The desired PSUPH may also be referenced by its currently associated channel group (CHNG). If RCVY is specified, then the recovery output report history will be printed. If EVENT is specified, then the event history will be printed. If neither RCVY nor EVENT are specifically requested, then by default both will be printed. However, event history dumps are not supported on PIs of hardware type PI1 or on PSUPHs of hardware type PH2.

The print mode of the PSUPH or PI may be changed through this message as well. Once the print mode of a PSUPH or PI is set to "ON", the unit’s output reports will be printed on the receive-only printer (ROP) until manually changed or until 48 hours have elapsed without a PI or PSUPH’s print mode change of "ON".

For PH hardware types other than PH2, this will also generate the PH event history report. For PI2 hardware type of packet interface (PI), this will also generate the PI event history report.

2. FORMAT

OP:HISTORY, {PSUPH=a-b-c-d | CHNG=a-b-c-e | MCTSI=a-f, PI} [,RCVY] [,EVENT] [,PRNTMODE={ON|OFF}];

3. EXPLANATION OF MESSAGE

Note: Refer to the Acronym section of the Input Messages manual for the full expansion of acronyms shown in the format.

a = Switching module (SM) number.
b = Packet switching unit (PSU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
c = PSU shelf number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
d = PSUPH number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
e = CHNG number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
f = MCTSI side number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

IP = In progress. The input message was accepted and the printing of the requested history is in
progress.

NG = No good. The input message was not accepted because the SM is isolated or the equipment does not exist.

NO = Feature not available. The requested action failed because the feature required to process the request is not present in the module.

5. REFERENCES

Input Message(s):

CHG: PRNTMODE
OP: PM-PP-MCTSI
RLS: PM-PP-MCTSI

Output Message(s):

REPT: PP-EP
REPT: PP-EM

Input Appendix(es):

APP: RANGES
1. PURPOSE

Requests the printing of the most recently retained (logged) output reports and/or the event history from the specified packet interface (PI) of the module controller time slot interchanger (MCTSI) or from the specified packet switching unit protocol handler (PSUPH). The desired PSUPH may also be referenced by its currently associated channel group (CHNG). If RCVY is specified, then the recovery output report history will be printed. If EVENT is specified, then the event history will be printed. If neither RCVY nor EVENT are specifically requested, then by default both will be printed. However, event history dumps are not supported on PIs of hardware type PI1 or on PSUPHs of hardware type PH2.

The print mode of the PSUPH or PI may be changed through this message as well. Once the print mode of a PSUPH or PI is set to "ON", the unit's output reports will be printed on the read-only printer (ROP) until manually changed.

For PH hardware types other than PH2, this will also generate the PH event history report. For PI2 hardware type of packet interface (PI), this will also generate the PI event history report.

2. FORMAT

OP:HISTORY, {PSUPH=a-b-c-d|CHNG=a-b-c-e|MCTSI=a-f, PI}. . .[, RCVY][, EVENT][, PRNTMODE={ON|OFF}];

3. EXPLANATION OF MESSAGE

NOTE: Refer to the Acronym section of the Input Messages manual for the full expansion of acronyms shown in the format.

a = Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

b = Packet switching unit (PSU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

c = PSU shelf number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

d = PSUPH number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

e = CHNG number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

f = MCTSI side number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

IP = In progress. The input message was accepted and the printing of the requested history is in
progress.

NG = No good. The input message was not accepted because the SM is isolated or the equipment does not exist.

NO = Feature not available. The requested action failed because the feature required to process the request is not present in the module.

5. REFERENCES

Input Message(s):

CHG: PRNTMODE
OP: PM-PP-MCTSI
RLS: PM-PP-MCTSI

Output Message(s):

REPT: PP-EP
REPT: PP-EM

Input Appendix(es):

APP: RANGES
OP: HISTORY-C

Software Release: 5E18(1) and later
Command Group: SYSRCVY
Application: 5
Type: Input

1. PURPOSE

Format 1 requests the printing of the most recently retained (logged) output reports and/or the event history from the specified packet interface (PI) of the module controller time slot interchanger (MCTSI), or from the specified packet switching unit protocol handler (PSUPH).

The desired PSUPH may also be referenced by its currently associated channel group (CHNG). If RCVY is specified, then the recovery output report history will be printed. If EVENT is specified, then the event history will be printed. If neither RCVY nor EVENT are specifically requested, then by default both will be printed. However, event history dumps are not supported on PIs of hardware type PI1 or on PSUPHs of hardware type PH2.

The print mode of the PSUPH or PI may be changed through this message as well. Once the print mode of a PSUPH or PI is set to "ON", the unit’s output reports will be printed on the ROP until manually changed.

For PH hardware types other than PH2, this will also generate the PH event history report. For PI2 hardware type of packet interface (PI), this will also generate the PI event history report.

Format 2 is applicable only for the enhanced packet switching unit (PSU2E), and requests the printing of the most recently retained event history from either the specified control fanout (CF) or the packet fanout (PF) unit on the PSU2E common board (PSUCOM). One can specify the number of desired events to print using the EVCNT field. If EVCNT is not specified, 21 events (3 message blocks) will be printed.

2. FORMAT

[1] OP:HISTORY,{PSUPH=a-b-c-d|CHNG=a-b-c-e|MCTSI=a-f ,PI}. . .[,]RCVY[,]EVENT[,]PRNTMODE={ON|OFF}];

[2] OP:HISTORY,PSUCOM=a-b-g, {CF|PF=h},[EVCNT=i];

3. EXPLANATION OF MESSAGE

NOTE: Refer to the Acronym section of the Input Messages manual for the full expansion of acronyms shown in the format.

a = Switching module (SM) number. Refer to the APP: RANGES appendix in the Appendixes section of the Input Messages manual.

b = Packet switching unit (PSU) number. Refer to the APP: RANGES appendix in the Appendixes section of the Input Messages manual.

c = PSU shelf number. Refer to the APP: RANGES appendix in the Appendixes section of the Input Messages manual.

d = PSUPH number. Refer to the APP: RANGES appendix in the Appendixes section of the Input Messages manual.
e  = CHNG number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

f  = MCTSI side number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

g  = PSUCOM side number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

h  = PF shelf number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

i  = Number of PF3/CF3 events to be printed. Default value = 21. Range is from 1 to 255.

4. SYSTEM RESPONSE

 IP  = In progress. The input message was accepted and the printing of the requested history is in progress.

 NG = No good. The input message was not accepted because the SM is isolated or the equipment does not exist.

 NO = Feature not available. The requested action failed because the feature required to process the request is not present in the module.

5. REFERENCES

Input Message(s):

CHG:PRNTMODE
OP:PM-PP-MCTSI
RLS:PM-PP-MCTSI

Output Message(s):

REPT:PP-EP
REPT:PP-EM

Input Appendix(es):

APP:RANGES
OP:HPRI

Software Release: 5E14 and later
Command Group: MAINT
Application: 5
Type: Input

1. PURPOSE
To determine the status of high priority terminal feature.
For more information on the feature, refer to the SET:HPRI input manual page.

2. FORMAT
OP:HPRI

3. EXPLANATION OF MESSAGE
No variables.

4. SYSTEM RESPONSE
PF = Printout follows. The request was accepted. The OP:HPRI output message will be printed.
NG = No good. The message entered is invalid. May also include:
   - SPECIAL FEATURE NOT AVAILABLE = Secured feature bit is not turned on.

5. REFERENCES
Input Message(s):
   SET:HPRI
   CLR:HPRI

Output Message(s):
   OP:HPRI
OP:HTR

Software Release: 5E16(2) and later
Command Group: NMOC
Application: 5
Type: Input

1. PURPOSE

Requests that all destinations assigned to the hard-to-reach (HTR) list be listed.

2. FORMAT

OP:HTR;

3. EXPLANATION OF MESSAGE

No variables.

4. SYSTEM RESPONSE

NG = Not good. Valid value(s):
   - FEATURE NOT AVAILABLE = The HTR feature is not available.

PF = Printout follows. Followed by the OP:HTR output message.

RL = Retry later. Includes one of the following:
   - CONFLICTING REQUEST = A similar request is being processed utilizing necessary resources.
   - RESOURCE SHORTAGE = The necessary resources are not available.

5. REFERENCES

Input Message(s):

ASGN:MHTR
CLR:MHTR

Output Message(s):

OP:HTR
OP:ILHB

Software Release: 5E14 and later
Command Group: MAINT
Application: 5
Type: Input

1. PURPOSE

Requests the report of the incoming line history block (ILHB) information for local area signaling services (LASS).

2. FORMAT

[1] OP:ILHB,DN=a;
[2] OP:ILHB,b[,PTY=c];

3. EXPLANATION OF MESSAGE

a
  = Ten-digit directory number (DN) of the line.

b
  = Equipment numbers. Valid value(s):

<table>
<thead>
<tr>
<th>Value</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>ILEN</td>
<td>d-e-f-g</td>
</tr>
<tr>
<td>LCEN</td>
<td>d-u-t-j</td>
</tr>
<tr>
<td>LCKEN</td>
<td>d-u-i-r-s</td>
</tr>
<tr>
<td>LEN</td>
<td>d-h-k-l-m-n</td>
</tr>
<tr>
<td>SLEN</td>
<td>d-o-p-q</td>
</tr>
</tbody>
</table>

For an ISDN LCEN, ILEN, or LCKEN (refer to RC/V View 23.1 for the specified OE number):

<table>
<thead>
<tr>
<th>Value</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>0-7</td>
<td>Multi-point.</td>
</tr>
<tr>
<td>I,0</td>
<td>Point-point</td>
</tr>
</tbody>
</table>

For an analog ILEN, LEN, LCEN, or SLEN [refer to RC/V View 1.6 for the specified office equipment (OE) number]:

<table>
<thead>
<tr>
<th>Value</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>0-9</td>
<td>Multi-party (4, 5, 8, or 10 party lines).</td>
</tr>
<tr>
<td>I</td>
<td>Individual line (default).</td>
</tr>
<tr>
<td>R</td>
<td>2 party ring.</td>
</tr>
<tr>
<td>T</td>
<td>2 party tip.</td>
</tr>
</tbody>
</table>

d
  = Switching module (SM) number. Refer to the APP: RANGES appendix in the Appendixes section of the Input Messages manual.

e
  = IDCU number. Refer to the APP: RANGES appendix in the Appendixes section of the Input Messages manual.

f
  = Remote terminal (RT) number or IDCU digital signal level 1 (DS1) serving PUB43801 number. Refer to the APP: RANGES appendix in the Appendixes section of the Input Messages manual.

g
  = RT line number or PUB43801 channel. Refer to the APP: RANGES appendix in the Appendixes section of the Input Messages manual.
4. SYSTEM RESPONSE

NG  = No good. Valid value(s):
   - INVALID OFFICE EQUIPMENT NUMBER = This request was denied because an invalid office
equipment number was entered.
   - MUST ENTER TEN NUMERIC DIGITS = This request was denied because ten numeric digits
must be entered.

PF  = Printout follows. The request has been accepted and is followed by the OP:ILHB output message.

RL  = Retry later. The request has been denied, probably due to system load.
5. REFERENCES

Output Message(s):

    OP : ILHB

Input Appendix(es):

    APP : RANGES

Other Manual(s):

Where ‘x’ is the release-specific version of the document.

235-118-251   Recent Change Procedures
235-118-25x   Recent Change Reference
235-190-130   Local Area Signaling Services Features
**OP:INIT**

**Software Release:** 5E14 and later  
**Command Group:** AM  
**Application:** 5,3B  
**Type:** Input

1. **PURPOSE**

Provides a list of all currently initializing administrative module (AM) hardware units. This format provides a list of all initializing units of a particular type.

2. **FORMAT**

   \[ OP:INIT[,a=a[,b,c=d]] ]; \]

3. **EXPLANATION OF MESSAGE**

   - a = Unit name. AM unit names are listed in the APP:MEM-NUM-UNIT appendix in the Appendixes section of the Input Messages manual.
   - b = Unit number. Refer to the APP:MEM-NUM-UNIT appendix in the Appendixes section of the Input Messages manual.
   - c = Subunit name, if a=CU. AM control unit (CU) subunit names are listed in the APP:MEM-NUM-CU appendix in the Appendixes section of the Input Messages manual.
   - d = Subunit number. Refer to the APP:MEM-NUM-CU appendix in the Appendixes section of the Input Messages manual.

4. **SYSTEM RESPONSE**

   - PF = Printout follows. Followed by the OP:INIT output message.
   - RL = Retry later.

5. **REFERENCES**

   **Input Message(s):**
   
   OP:CFGSTAT-3B

   **Input Appendix(es):**
   
   APP:MEM-NUM-CU  
   APP:MEM-NUM-UNIT

   **Output Message(s):**
   
   OP:CFGSTAT  
   OP:INIT
OP:INVEN

Software Release: 5E16(2) and later
Command Group: MAINT
Application: 5
Type: Input

1. PURPOSE

Requests inventory data be printed for circuit packs residing on an optical interface unit (OIU) or access interface unit (AIU).

Format 1 requests inventory data for all optical facility interface (OFI) circuit packs on a given OIU or switching module (SM).

Format 2 requests inventory data for all circuit packs on a given AIU.

2. FORMAT

[1] OP:INVEN,SM=a,OIU={b|ALL};

[2] OP:INVEN,SM=a, AIU=b;

3. EXPLANATION OF MESSAGE

ALL = print data for all OIUs on a given SM.

a = SM number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

b = unit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

PF = Printout follows. The request has been accepted and an OP:INVEN output message will follow.

NG = No good. May also include:

- NO SUCH SM = The message syntax is valid, but the requested SM does not exist.
- SM UNEQ = The message syntax is valid, but the requested SM is unequipped.
- INVALID SM = The message syntax is valid, but the requested SM is a classic SM.
- UNIT UNEQ = The message syntax is valid, but the requested unit is unequipped.

RL = Retry later. The request cannot be executed now due to a loss of communication to the requested SM.

5. REFERENCES

Output Message(s):

OP:INVEN
Other Manual(s):
235-105-110  System Maintenance Requirements and Tools
235-105-220  Corrective Maintenance
OP:IODRV

Software Release: 5E14 and later
Command Group: AM
Application: 5,3B
Type: Input

1. PURPOSE

Reports the current options set for the administrative module (AM) input/output processor (IOP) driver messages.

Note: If none of the options is specified, this message will report all of the severity level option settings, the handler identification option setting, and the class option settings that are turned on, and whether MSGSAVE is ON or OFF.

2. FORMAT

OP:IODRV[:[LVL][,ID][,CLASS][,MSGSAVE]];

3. EXPLANATION OF MESSAGE

CLASS  = Report the class option setting.
ID  = Report the handler identification option setting.
LVL  = Report the severity level option setting.
MSGSAVE  = Report whether or not IOP error messages are being saved in the IODRVLOG logfile.

4. SYSTEM RESPONSE

NG  = No good. Process not initiated.
PF  = Printout follows. Followed by the OP:IODRV output message.

5. REFERENCES

Output Message(s):

OP:IODRV
OP:IOP

Software Release: 5E14 and later
Command Group: N/A
Application: 5,3B
Type: Input

1. PURPOSE
Requests specific information about an IOP member number.

2. FORMAT

OP:IOP a;INFO!

3. EXPLANATION OF MESSAGE

a  IOP member number.

4. SYSTEM RESPONSE

PF  Printout follows. Followed by the OP:IOP output message.

5. REFERENCES

Output Message(s):

OP:IOP
OP:IPCFG

Software Release: 5E16(2) and later
Command Group: TRKLN
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Requests the output of IP address and subnet mask configuration information matching the following specified characteristics. These include:

- The entire office.
- A specific SM.
- A specific IP address.
- A specific network identifier.

Output will include the SM, IP address, subnet mask, network ID, equipment and interface type. The equipment information displayed depends on the equipment type. It includes the unit type, unit number and protection group for OIU-IP facilities. For PHs, the output includes the PSU number, PSU shelf, channel group (PH number) and processor group (for SIP PHs). The interface type indicates if the IP address is used internally (for example, SM/PH processor IP assignments on the 5ESS® switch) or if the address is associated with external interfaces (OC-3c, ethernet, X.25).

Only one OP:IPCFG request may be processed by the system at any moment. Additional requests will be denied.

WARNING: Requesting this message may cause an enormous amount of data to be printed on the ROP. The use of any format could cause a degradation in switch service.

The input message, STP:IPCFG, can be used to halt the printing of this input message should system operation be impacted by this message.

2. FORMAT

[1] OP:IPCFG,OFFICE;


3. EXPLANATION OF MESSAGE

a = SM number. Search for IP configuration information is restricted to specified SM. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

b = IP address. Consisting of a hyphen separated decimal number with a maximum of 15 characters.
This is the internet protocol address. Its format is \( xxx-xxx-xxx-xxx \) where \( xxx \) ranges from 0 to 255.

c = Network ID. Refer to APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

PF = Printout follows. The request has been accepted and an OP:IPCFG output message will follow.

RL = Retry later. May also include:
- FAILED TO CREATE PROCESS = The process that would service the request could not be created, or did not receive the request, probably due to system load.
- REQUEST ALREADY IN PROGRESS = An OP:IPCFG request is already running. Only one request is allowed to run at a time.
- TOO MANY PROCESSES ACTIVE = A process to service the request cannot be created because the maximum number of active maintenance processes has been reached.

5. REFERENCES

Input Message(s):

STP:IPCFG

Output Message(s):

OP:IPCFG
STP:IPCFG

Input Appendix(es):

APP:RANGES
48. OP:J
OP:JOBSTATUS-A

Software Release: 5E14 only
Command Group: TRKLN
Application: 5
Type: Input

1. PURPOSE

Requests a report of the status of all terminal maintenance jobs initiated through the trunk and line work station (TLWS) maintenance automatic task administrator or the Autoplex® automatic task administrator (AATA) currently active in the system. If the job type (JOB) is omitted, the default job type is TLWS.

2. FORMAT

OP:JOBSTATUS[,JOB=a];

3. EXPLANATION OF MESSAGE

a = Job type. Valid value(s):
   AATA = AATA maintenance task.
   TLWS = TLWS maintenance task.

4. SYSTEM RESPONSE

PF = Printout follows. The request has been accepted and is followed by the OP:JOBSTATUS output message.
RL = Retry later. The request has been denied, probably due to system load.

5. REFERENCES

Input Message(s):

   ABT:OTO
   ABT:TASK
   EXC:CCSCQ
   EXC:CCSXLATE
   CLR:PB
   EX:OTO
   INIT:FAC
   OP:AML
   OP:CAMPON
   OP:CGA
   OP:CONV
   OP:CPE
   OP:FAC
   OP:LIST
   OP:LISTOTO
   OP:OSPS
   OP:PB
OP:SCF
OP:SL
OP:SS7
OP:ST-PORTS
OP:TGCNT
RMV:CPE
RMV:DATALINK
RMV:LINE
RMV:OSPSPORT
RMV:TRK
RST:CPE
RST:DATALINK
RST:LINE
RST:OSPSPORT
RST:TRK
SET:PB
STP:CAMPON
STP:LIST
STP:TST-DSL
STP:CCSCQ
STP:TST-ELS
STP:TST-TRK
TST:DSL
TST:LINE-ELS
TST:MF
TST:TRK

Output Message(s):

OP:JOBSTATUS
OP:JOBSTATUS-B

Software Release: 5E15 - 5E16(1)
Command Group: TRKLN
Application: 5
Type: Input

1. PURPOSE
Requests a report of the status of all terminal maintenance jobs initiated through the trunk and line work station (TLWS) maintenance automatic task administrator or the AUTOPLEX® automatic task administrator (AATA) currently active in the system. If the job type (JOB) is omitted, the default job type is TLWS.

2. FORMAT
OP:JOBSTATUS[,JOB=a];

3. EXPLANATION OF MESSAGE
a = Job type. Valid value(s):
   AATA = AATA maintenance task.
   TLWS = TLWS maintenance task.

4. SYSTEM RESPONSE
PF = Printout follows. The request has been accepted. Followed by the OP:JOBSTATUS output message.
RL = Retry later. The request has been denied, probably due to system load.

5. REFERENCES
Input Message(s):
   ABT:OTO
   ABT:TASK
   CLR:PB
   EXC:CCSCQ
   EXC:CCSXLATE
   EX:OTO
   INIT:FAC
   OP:AML
   OP:CAMPON
   OP:CGA
   OP:CONV
   OP:CPE
   OP:FAC
   OP:LIST
   OP:LISTOTO
   OP:OSPS
   OP:PB
   OP:SCF
   OP:SL
OP: SS7
OP: ST-PORTS
OP: TGCNT
RMV: CPE
RMV: DATALINK
RMV: LINE
RMV: OSPSPORT
RMV: TRK
RST: CPE
RST: DATALINK
RST: LINE
RST: OSPSPORT
RST: TRK
SET: PB
STP: CAMPON
STP: CCSCQ
STP: LIST
STP: TST-DSL
STP: TST-ELS
STP: TST-TRK
STP: TST-PATH
TST: DSL
TST: LINE-ELS
TST: MP
TST: TRK
TST: PATH

Output Message(s):

OP: JOBSTATUS
OP:JOBSTATUS-C

Software Release: 5E16(2) and later
Command Group: TRKLN
Application: 5
Type: Input

1. PURPOSE

Requests a report of the status of all terminal maintenance jobs initiated through the trunk and line work station (TLWS) maintenance automatic task administrator or the AUTOPLEX® automatic task administrator (AATA) currently active in the system. If the job type (JOB) is omitted, the default job type is TLWS.

2. FORMAT

OP:JOBSTATUS[,JOB=a];

3. EXPLANATION OF MESSAGE

a = Job type. Valid value(s):
    AATA = AATA maintenance task.
    TLWS = TLWS maintenance task.

4. SYSTEM RESPONSE

PF = Printout follows. The request has been accepted. Followed by the OP:JOBSTATUS output message.

RL = Retry later. The request has been denied, probably due to system load.

5. REFERENCES

Input Message(s):

ABT:OTO
ABT:TASK
CLR:PB
EXC:CCSCQ
EXC:CCSXLATE
EX:OTO
INIT:FAC
OP:AML
OP:CAMPON
OP:CGA
OP:CONV
OP:CPE
OP:FAC
OP:LIST
OP:LISTOTO
OP:OSPS
OP:PB
OP:SCF
OP:ST-SCTP
OP:SL
OP:SS7
OP:ST-PORTS
OP:TGCNT
RMV:CPE
RMV:DATALINK
RMV:LINE
RMV:OSPFSPORT
RMV:SCTP
RMV:TRK
RST:CPE
RST:DATALINK
RST:LINE
RST:OSPFSPORT
RST:SCTP
RST:TRK
SET:PB
STP:CAMPON
STP:CCSCQ
STP:LIST
STP:TST-DSL
STP:TST-ELS
STP:TST-TRK
STP:TST-PATH
TST:DSL
TST:LINE-ELS
TST:MP
TST:TRK
TST:PATH

Output Message(s):

OP:JOBSTATUS
49. OP:L
OP:LASSRQST-A
Software Release: 5E14 only
Command Group: MAINT
Application: 5
Type: Input

1. PURPOSE

Requests local area signaling services (LASS) screen list editing (SLE) validation of a ten-digit directory number (DN). A LASS user can add a DN to a list after the DN passes certain validation checks. A caller whose number appears in the list is then given special treatment based on the LASS selective features (LSF) the user has activated.

This input message performs the validation checks to assist in diagnosing validation failures.

2. FORMAT

OP:LASSRQST,DN=a[,LATA=b][,OPC=c];

3. EXPLANATION OF MESSAGE

a = The ten-digit DN to be validated.

b = An optional three digit absolute local access transport area (LATA) number (100-999). The TCAP improvements feature for a switch spanning multiple LATAs must be purchased for this option to work.

c = Origination point code consisting of nine digit character string. Refer to the APP:POINT-CODE appendixes in the Appendixes section of the Input Messages manual.

Note: This option is mandatory in a multi-platform office.

4. SYSTEM RESPONSE

NG = No good. Valid value(s):
- CCS MESSAGE TRANSPORT PATH UNAVAILABLE = SS7 PSU signaling links are not available.
- DN MUST BE 10 DIGITS = DN entered must have ten digits. Each digit must be a numeric character from 0 to 9.
- GSM/PROTOCOL MISMATCH = The GSM and the protocol do not match, missing or incorrect data.
- LATA MUST BE 3 DIGITS [100 - 999] = LATA entered must have three digits.
- MUST ENTER OPC = The origination point code must be specified as part of the input message because either there are multiple global switch modules (GSM) in the office or the office is equipped with both common network interface (CNI) and packet switch unit (PSU) platforms.
- NO GLOBAL SM IN OFFICE = The office is not equipped with any GSMs.
- NO SS7 IN OFFICE = The office is not equipped with signaling system 7 (SS7) platform.
- OPC IS INVALID = The entered digits are either invalid, the number of digits entered is incorrect, or the point code was not provisioned in the office.
- OPC IS NOT AVAILABLE = Could not get the point code. There was missing or incorrect data in the input message.
= The request is not allowed. Valid value(s):
- FEATURE NOT AVAILABLE = The TCAP improvements feature for a switch spanning multiple 
  LATAs must be purchased for the "LATA" option to work.

PF = Printout follows. The DN validation request was accepted. Followed by the OP:LASSRQST output 
  message.

RL = Retry later. Valid value(s):
- OVERLOAD CONDITION IN CCS MESSAGE TRANSPORT PATH = SS7 PSU signaling links are 
  congested.

.LI The message was not accepted because of a temporary lack of available 
  resources.

5. REFERENCES

Output Message(s): 

  OP:LASSRQST

Other Manual(s):
235-200-115  CNI Common Channel Signaling
235-200-116  Signaling Gateway Common Channel Signaling
1. PURPOSE

Requests local area signaling services (LASS) screen list editing (SLE) validation of a ten-digit directory number (DN). A LASS user can add a DN to a list after the DN passes certain validation checks. A caller whose number appears in the list is then given special treatment based on the LASS selective features (LSF) the user has activated.

This input message performs the validation checks to assist in diagnosing validation failures.

2. FORMAT

OP:LASSRQST,DN=a[,LATA=b][,OPC=c][,PLATFORM=d];

3. EXPLANATION OF MESSAGE

a  = The ten-digit DN to be validated.

b  = An optional three digit absolute local access transport area (LATA) number (100-999). The TCAP improvements feature for a switch spanning multiple LATAs must be purchased for this option to work.

c  = Origination point code consisting of nine digit character string. Refer to the APP:POINT-CODE appendixes in the Appendixes section of the Input Messages manual.

Note: This option is mandatory in a multi-platform office.

d  = Signaling Platform. Valid value(s):
   0  = Common Network Interface (CNI) Platform
   1 - 192 = Global Switching Module (GSM) Number

Note: This option is mandatory in a multi-platform office.

4. SYSTEM RESPONSE

NG  = No good. Valid value(s):
   - CCS MESSAGE TRANSPORT PATH UNAVAILABLE = SS7 PSU signaling links are not available.
   - DN MUST BE 10 DIGITS = DN entered must have ten digits. Each digit must be a numeric character from 0 to 9.
   - GSM/PROTOCOL MISMATCH = The GSM and the protocol do not match, missing or incorrect data.
   - LATA MUST BE 3 DIGITS [100 - 999] = LATA entered must have three digits.
   - MUST ENTER OPC = The origination point code must be specified as part of the input message because either there are multiple global switch modules (GSM) in the office or the office is equipped with both common network interface (CNI) and packet switch unit
(PSU) platforms.
- MUST ENTER PLATFORM = The signaling platform must be specified as part of the input message because either there are multiple global switch modules (GSM) in the office or the office is equipped with both common network interface (CNI) and switch unit (PSU) platforms.
- NO GLOBAL SM IN OFFICE = The office is not equipped with any GSMs.
- NO SS7 IN OFFICE = The office is not equipped with signaling system 7 (SS7) platform.
- OPC IS INVALID = The entered digits are either invalid, the number of digits entered is incorrect, or the point code was not provisioned in the office.
- OPC IS NOT AVAILABLE = Could not get the point code. There was missing or incorrect data in the input message.
- OPC NOT ON PLATFORM = Could not find the point code on the platform entered.
- PLATFORM IS INVALID = The entered signaling platform is either invalid or the platform entered is not provisioned in the office.

NO = The request is not allowed. Valid value(s):
- FEATURE NOT AVAILABLE = The TCAP improvements feature for a switch spanning multiple LATAs must be purchased for the "LATA" option to work.

PF = Printout follows. The DN validation request was accepted. Followed by the OP:LASSRQST output message.

RL = Retry later. Valid value(s):
- OVERLOAD CONDITION IN CCS MESSAGE TRANSPORT PATH = SS7 PSU signaling links are congested.

.LI The message was not accepted because of a temporary lack of available resources.

5. REFERENCES

Output Message(s):

OP:LASSRQST

Other Manual(s):
235-200-115  CNI Common Channel Signaling
235-200-116  Signaling Gateway Common Channel Signaling
OP:LIB-DISK
Software Release: 5E14 and later
Command Group: ADMIN
Application: 5
Type: Input

1. PURPOSE
Requests information about the library programs that exist on the administrative module (AM) disk. With the filename specified, it will only report on that filename. With no name mentioned, it will report on all library programs in the library program directory.

2. FORMAT
OP:LIB:DISK[, FN="a"];

3. EXPLANATION OF MESSAGE

   a = The name of the program to be reported on. If this option is omitted, all library programs will be listed.

4. SYSTEM RESPONSE

   NG = No good. The library program directory cannot be read. Check permissions on directory "/noSext/lib".

   PF = Printout follows. A report will follow.

5. REFERENCES
None.
**OP:LIB-STATUS**

**Software Release:** 5E14 and later  
**Command Group:** ADMIN  
**Application:** 5  
**Type:** Input

1. PURPOSE

Requests information about the current status of library programs currently loaded or running on the system.

2. FORMAT

```
OP:LIB:STATUS[,TEAM=a][,AM][,SM=b|,SM=c&&d);
```

3. EXPLANATION OF MESSAGE

Note: Refer to the Acronym section of the Input Messages manual for the full expansion of acronyms shown in the format.

**AM** = The input message should be sent to the library program running in the administrative module (AM) under this team.

**a** = The team number (1-15) to which this input message applies. This number is specified in the LOAD:LIB input message, and is used so that more than one person may test at the same time, using different team numbers.

**b** = The SM to which this message should be directed. The team specified must have a library program running in the SM(s) listed.

**c** = The first SM in the range 'c' to 'd'.

**d** = The last SM in the range 'c' to 'd'. There can be up to 5 SM numbers listed.

4. SYSTEM RESPONSE

**NG** = No good. Either the team number or SM number(s) is illegal. SMs that have not initialized cannot be sent messages.

**PF** = Printout follows. Message has been sent to the SMs/AM or TEAM specified.

5. REFERENCES

Other Manual(s):

None.
OP:LIST-A

Software Release: 5E14 only
Command Group: TRKLN
Application: 5
Type: Input

1. PURPOSE

Requests a list of trunks, lines, data links, or operator services position system ports (OSPSPORTs) that currently match the status specified in the request. Any port type that uses the digital facility interface (DFI) can be listed by specifying the DFI. Any port type that uses the digital network unit - synchronous optical network (SONET) (DNU-S) can be listed by specifying the virtual tributary level 1 facility (VT1FAC). Ports that use the radio port controller units (RPCU) can be listed by specifying the RPCU. All switched virtual circuit (SVC) ports on a frame relay bearer channel (FRBC) can be listed by specifying the FRBC group and member. Not all in-service trunks, lines, data links, or OSPSPORTs in either the entire office or a specified switching module (SM) can be listed. A subset can be listed (refer to the EXPLANATION OF MESSAGE for details). Only one OP:LIST request can be active in the system at any moment; any additional requests will be denied.

2. FORMAT


3. EXPLANATION OF MESSAGE

Note: Refer to the Acronym section of the Input Messages manual for the full expansion of acronyms shown in the format.

FULL  = Use the primary and pending statuses for match and print in the output list. When FULL is not specified (default), only the primary status is used to match and only the primary status is printed on the output list. FULL and SUM may not be specified together. SUM only allows for a summary on one status.

PRIGRP  = Primary rate interface (PRI) group. If this specifier is entered by itself, all OOS PRIGRP D-channels are printed that match the status given. This does not include OSPS PRI D-channels, since they are not assigned a PRI group number.

SUM  = Print a summary report. This report gives only the number of ports that matched the status. (Incompatible with [,FULL]).

a  = Valid value(s):

<table>
<thead>
<tr>
<th>Valid value(s)</th>
<th>AGEST</th>
<th>AQM</th>
<th>AQM</th>
<th>AQM</th>
<th>AQM</th>
<th>AQM</th>
</tr>
</thead>
<tbody>
<tr>
<td>AP</td>
<td>h]</td>
<td>BST</td>
<td>k</td>
<td></td>
<td>DASC</td>
<td>h</td>
</tr>
<tr>
<td>AQ</td>
<td>h</td>
<td></td>
<td>BST</td>
<td>k</td>
<td></td>
<td>DASC</td>
</tr>
<tr>
<td>DATALINKS</td>
<td>DFI=m-d1-e1</td>
<td>DSLS=m-n</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>EIS</td>
<td>k</td>
<td></td>
<td>FRBC=x-q1</td>
<td>ROBICR</td>
<td>h</td>
<td></td>
</tr>
<tr>
<td>HOBICV</td>
<td>h</td>
<td></td>
<td>ROBIS</td>
<td>h</td>
<td></td>
<td>LINES</td>
</tr>
<tr>
<td>MISLINK</td>
<td>h</td>
<td></td>
<td>MLKG=s[-t&amp;u]</td>
<td></td>
<td>OAPF</td>
<td></td>
</tr>
<tr>
<td>OAPO</td>
<td>OPT</td>
<td>k</td>
<td></td>
<td>OSPSPORTS</td>
<td></td>
<td></td>
</tr>
<tr>
<td>PRIGRP</td>
<td>f</td>
<td></td>
<td>RAS</td>
<td>h</td>
<td></td>
<td>RPCU</td>
</tr>
<tr>
<td>RTRS</td>
<td>h</td>
<td></td>
<td>TG=x[-y&amp;z]</td>
<td></td>
<td>TRUNKS</td>
<td></td>
</tr>
<tr>
<td>VT1FAC=m-l1-m2-s1-n1-o1-p1</td>
<td>XDB</td>
<td>h</td>
<td></td>
<td>XDPP</td>
<td></td>
<td></td>
</tr>
<tr>
<td>XDPO</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

b  = SM number. Restrict the output to one switching module. Refer to the APP:RANGES appendix in the Appendixes section of the Output Messages manual.
Note: Variables 'c' through 'g' are subfields giving the port status [default is out-of-service (OOS)] to match against the subset of trunks, lines, data links, or OSPSPORTs. If a subfield is omitted, any value for that subfield will match. Fields are always separated by a single comma, even if in-between fields are omitted (as in OOS, MAN). If a group number or group and range of members were specified and all status subfields were omitted, then all the statuses will be listed including in-service for that group or range of members.

- **c** = Port status - basic state. Valid value(s):
  - **IS** = In service. Valid only with FRCD qualifier in specific OP:LIST subcategories. Valid value(s):
    - OP:LIST, AP
    - OP:LIST, DATALINKS
    - OP:LIST, HOBICR
    - OP:LIST, HOBIS
    - OP:LIST, LINES
    - OP:LIST, MISLNK
    - OP:LIST, OAPF
    - OP:LIST, OAPO
    - OP:LIST, PRIGRP
    - OP:LIST, RAS
    - OP:LIST, TRUNKS
    - OP:LIST, TG
  - **OOS** = Out-of-service. Default case in specified OP:LIST subcategories. Valid value(s):
    - OP:LIST, AP
    - OP:LIST, AQEST
    - OP:LIST, BST
    - OP:LIST, DATALINKS
    - OP:LIST, HOBICR
    - OP:LIST, HOBIS
    - OP:LIST, LINES
    - OP:LIST, MISLNK
    - OP:LIST, OAPF
    - OP:LIST, OAPO
    - OP:LIST, OPT
    - OP:LIST, OSPSPORTS
    - OP:LIST, PRIGRP
    - OP:LIST, RAS
    - OP:LIST, TG
    - OP:LIST, TRUNKS
    - OP:LIST, XDPF
    - OP:LIST, XDPO

- **d** = Port status - qualifier. Valid value(s):
  - **BLKD** = Blocked.
  - **CADN** = Circuit administration.
  - **CUTOVER** = Cutover (pre-cut) inactive state.
  - **DSLINIT** = Digital subscriber line (DSL) initialization.
  - **FRCD** = Forced.
  - **MKBUSY** = Make busy.
MTCE = Maintenance.
PPSRV = Pre/post service.
STBY = Standby.
TMT = Traffic management.
WAIT = Waiting for acknowledgement.

Port status - operational restrictions. Valid value(s):
- BCOOS = Bearer channel is out-of-service.
- BCMOOS = Bearer channel member is out-of-service.
- BUSY = Forced busy by switch.
- CCSINIT = Common channel signaling (CCS) initialization.
- CONT = Continuity test failure (CCS only).
- DCHOOS = D-channel is out-of-service.
- DS0_OOS = ISLP member trunk is out-of-service.
- DSBLD = Disabled.
- FAF = Facility failure.
- FE = Family of equipment.
- HW = High and wet.
- LKDO = Locked out.
- LVL1ERR = Level 1 error.
- LVL2ERR = Level 2 error.
- LVL3ERR = Level 3 error.
- PLGUP = Plug-up.
- PPMOOS = Packet pipe member trunk is out-of-service.
- PX = Power cross.
- RAP = Recorded announcement port.

Port status - supplementary information. Valid value(s):
- AFAF = Associate facility failure.
- AML = Automatic maintenance limit.
- AQ = Autoquote problem.
- AUDIT = Audit detected problem.
- CAMA = Centralized automatic message accounting.
- CAROT = Centralized automatic reporting on trunks.
- CDI = Control and data interface.
- CKT = General circuit.
- CTTU = Central trunk testing unit.
- DLRNORS = INITIAL response not received over DSL data link.
- DM_RECD = Received a level 2 disconnect message frame from far end.
- DS1OOS = Digital signal level 1 is out-of-service.
- DYGSPUS = Dying gasp under study.
- ERATC = Trunk error analysis test call failure.
- ERATP = Trunk error analysis all tests passed.
- FORPOT = Foreign potential.
- GRD = Ground fault.
- GRID = Line unit grid bad.
- IAA = Ineffective attempt analysis.
- INC = Incoming end. When used with the continuity status [OOS, maintenance (MTCE), CONT], it means that this CCS trunk is involved in automatic continuity retesting that is being controlled by the far end office.
<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>ISLU</td>
<td>Integrated services line unit.</td>
</tr>
<tr>
<td>INIT</td>
<td>Initialization.</td>
</tr>
<tr>
<td>L2DOWN</td>
<td>For a packet-switched line, level 2 protocol in not established.</td>
</tr>
<tr>
<td>L2QLTY</td>
<td>Poor level 2 transmission quality. The line/trunk had too many level 2 protocol errors.</td>
</tr>
<tr>
<td>LINK1</td>
<td>The basic rate interface transmission extension (BRITE) link one is down.</td>
</tr>
<tr>
<td>LINK2</td>
<td>The BRITE link two is down.</td>
</tr>
<tr>
<td>LINK3</td>
<td>The BRITE link three is down.</td>
</tr>
<tr>
<td>LINK4</td>
<td>The BRITE link four is down.</td>
</tr>
<tr>
<td>LINK5</td>
<td>The BRITE link five is down.</td>
</tr>
<tr>
<td>LINK6</td>
<td>The BRITE link six is down.</td>
</tr>
<tr>
<td>MPP</td>
<td>Modern pool problem.</td>
</tr>
<tr>
<td>MSMTCH</td>
<td>Mismatch.</td>
</tr>
<tr>
<td>MTCECH</td>
<td>Maintenance channel.</td>
</tr>
<tr>
<td>NO_RESP</td>
<td>No response from far end during an attempted level 2 communication establishment.</td>
</tr>
<tr>
<td>NR</td>
<td>No response.</td>
</tr>
<tr>
<td>NRT</td>
<td>No response while in test mode.</td>
</tr>
<tr>
<td>NTDACT</td>
<td>Network termination (NT) is deactivated.</td>
</tr>
<tr>
<td>NTOFN</td>
<td>NT off normal.</td>
</tr>
<tr>
<td>NTPWR</td>
<td>NT primary power is lost.</td>
</tr>
<tr>
<td>NTSPWR</td>
<td>NT secondary power is lost.</td>
</tr>
<tr>
<td>ODD</td>
<td>Office dependent data.</td>
</tr>
<tr>
<td>OTG</td>
<td>Outgoing end. When used with the continuity status (OOS, MTCE, CONT), it means that this CCS trunk is the end controlling the automatic continuity retesting.</td>
</tr>
<tr>
<td>OPNOXL3</td>
<td>Switch could not activate level 3 protocol.</td>
</tr>
<tr>
<td>PCTF</td>
<td>Per call test failure.</td>
</tr>
<tr>
<td>POSNOB</td>
<td>OSPS position no B-channel. Could not activate B-channel (voice) port of DSL.</td>
</tr>
<tr>
<td>POSNRSP</td>
<td>OSPS position failed to send initial response.</td>
</tr>
<tr>
<td>PPM</td>
<td>Periodic pulse metering unit.</td>
</tr>
<tr>
<td>PROV</td>
<td>Lines that have not yet been provisioned.</td>
</tr>
<tr>
<td>PSU</td>
<td>Packet switch unit.</td>
</tr>
<tr>
<td>RDTA</td>
<td>Remote digital test access.</td>
</tr>
<tr>
<td>RESTART</td>
<td>Q.931 restart message.</td>
</tr>
<tr>
<td>REX</td>
<td>Routine exercise.</td>
</tr>
<tr>
<td>RO</td>
<td>Routine/other.</td>
</tr>
<tr>
<td>ROTF</td>
<td>Routine operational test failure (such as, scanner stuck off-hook).</td>
</tr>
<tr>
<td>RSMMSA</td>
<td>Remote switching module (RSM) in module stand-alone mode (MSA) of operation.</td>
</tr>
<tr>
<td>RT</td>
<td>OOS in the RT.</td>
</tr>
<tr>
<td>RTTF</td>
<td>Routine transmission test failure.</td>
</tr>
<tr>
<td>SCC</td>
<td>Removed by Switching Control Center.</td>
</tr>
<tr>
<td>SERVICE</td>
<td>Q.931 service message.</td>
</tr>
<tr>
<td>SPARED</td>
<td>Line is involved in an ISLU sparing configuration.</td>
</tr>
<tr>
<td>STKSCN</td>
<td>Suspected stuck scan (STKSCN) lead on the line group controller (LGC) or the line card (LC).</td>
</tr>
<tr>
<td>SWEQF</td>
<td>Switch equipment failure.</td>
</tr>
<tr>
<td>TEST</td>
<td>In test mode.</td>
</tr>
<tr>
<td>TEST1</td>
<td>Testing in progress at the NT or BRITE channel unit (CU) and the BRITE link one is down.</td>
</tr>
</tbody>
</table>
TEST2 = Testing in progress at the NT or BRITE CU and the BRITE link two is down.
TEST3 = Testing in progress at the NT or BRITE CU and the BRITE link three is down.
TEST4 = Testing in progress at the NT or BRITE CU and the BRITE link four is down.
TEST5 = Testing in progress at the NT or BRITE CU and the BRITE link five is down.
TEST6 = Testing in progress at the NT or BRITE CU and the BRITE link six is down.
TICOM = Treated interface unit common circuit.
TINTF = The T interface is down.
TRBL = Unspecified trouble.
TRBLORG = Origination trouble (for example, showering line).
TREQF = Transmission equipment failure.
TRKBD = Trunk board.
TRKCT = Trunk circuit.
UINTF = The ANSI® standard U-interface is down.

\[g\] = Port status- mode. Valid value(s):
AUTO = Automatic.
MAN = Manual.

\[h\] = Data link (group) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

\[k\] = Operator service center number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

\[m\] = SM number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

\[n\] = Packet switch unit (PSU) channel group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

\[s\] = Multi-line hunt group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

\[t\] = The lower limit of range of multi-line hunt group member numbers. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

\[u\] = The upper limit of range of multi-line hunt group member numbers. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

\[x\] = Trunk group number against which to generate the list. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

\[y\] = The lower limit of a range of trunk group member numbers. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

\[z\] = The upper limit of a range of trunk group member numbers. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

\[d\] = Digital line and trunk unit (DLTU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

\[e\] = DFI number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
f
- PRI group number. If a number is specified, all the D- and B-channels in the PRI group are output that match the status given. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

k
- EIS identifier (ID) on which the CPDL terminates. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

l
- Digital networking unit - SONET number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

m
- Data group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

n
- Synchronous transport signal (STS) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

o
- Virtual tributary group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

p
- RPCU number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

q
- Trunk group member number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

r
- SONET termination equipment (STE) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

s
- Virtual tributary member number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

PF
- Printout follows. The request has been accepted and is followed by OP:LIST-DATA, OP:LIST-DATALIN, OP:LIST-LINES, OP:LIST-OSPSPOR, OP:LIST-REPORT, OP:LIST-SUM or the OP:LIST-TRUNK output message. When the request is entered from the master control center (MCC), the output will also be directed to the ROP.

RL
- Retry later. The request has been denied, most probably due to system load.

5. REFERENCES

Input Message(s):

OP:STATUS
STP:LIST

Output Message(s):

OP:LIST-DATA
OP:LIST-DATALIN
Input Appendix(es):

APP: RANGES

Output Appendix(es):

APP: PORT-STATUS

Other Manual(s):

235-105-110  System Maintenance Requirements and Tools
235-900-341  National ISDN Basic Rate Interface Specification
250-500-100  OSPS General Description
OP:LIST-B

Software Release: 5E15 only
Command Group: TRKLN
Application: 5
Type: Input

1. PURPOSE

Requests a list of trunks, lines, data links, or operator services position system ports (OSPSPORTs) that currently match the status specified in the request. Any port type that uses the digital facility interface (DFI) can be listed by specifying the DFI. Any port type that uses the digital network unit - synchronous optical network (SONET) (DNU-S) can be listed by specifying the virtual tributary level 1 facility (VT1FAC). Ports that use the radio port controller units (RPCU) can be listed by specifying the RPCU. All switched virtual circuit (SVC) ports on a frame relay bearer channel (FRBC) can be listed by specifying the FRBC group and member. Any port type on a peripheral control and timing line and trunk unit (PLTU) facility can be listed by specifying the PLTU facility number. Any port type on an optical interface unit (OIU) facility can be listed by specifying the OIU facility number. Not all in-service trunks, lines, data links, or OSPSPORTs in either the entire office or a specified switching module (SM) can be listed. A subset can be listed (refer to the EXPLANATION OF MESSAGE for details). Only one OP:LIST request can be active in the system at any moment; any additional requests will be denied.

2. FORMAT


3. EXPLANATION OF MESSAGE

NOTE: Refer to the Acronym section of the Input Messages manual for the full expansion of acronyms shown in the format.

FULL

Use the primary and pending statuses for match and print in the output list. When FULL is not specified (default), only the primary status is used to match and only the primary status is printed on the output list. FULL and SUM may not be specified together. SUM only allows for a summary on one status.

PRIGRP

Primary rate interface (PRI) group. If this specifier is entered by itself, all OOS PRIGRP D-channels are printed that match the status given. This does not include OSPS PRI D-channels, since they are not assigned a PRI group number.

SUM

Print a summary report. This report gives only the number of ports that matched the status. (Incompatible with [,FULL]).

a

Unit. Valid value(s):

AP [=h]
AQEST
AQM [=h]
AQ [=h]
BST [=k]
DASC [=h]
DATALINKS
DFI=m-d^1-e^1
DSLG=m-n
EIS [=k^1]
FRBC=x-q^1
b = SM number. Restrict the output to one switching module. Refer to the APP:RANGES appendix in the Appendixes section of the Output Messages manual.

**NOTE:** Variables 'c' through 'g' are subfields giving the port status [default is out-of-service (OOS)] to match against the subset of trunks, lines, data links, or OSPSPORTs. If a subfield is omitted, any value for that subfield will match. Fields are always separated by a single comma, even if in-between fields are omitted (as in OOS,MAN). If a group number or group and range of members were specified and all status subfields were omitted, then all the statuses will be listed including in-service for that group or range of members.

c = Port status - basic state. Valid value(s):

```plaintext
IS = In service. Valid only with FRCD qualifier in specific OP:LIST subcategories. Valid value(s):

OP:LIST,AP
OP:LIST,DATALINKS
OP:LIST,HOBICR
OP:LIST,HOBIS
OP:LIST,LINES
OP:LIST,MISLNK
OP:LIST,OAPF
OP:LIST,OAPO
OP:LIST,PRIGRP
OP:LIST,RAS
OP:LIST,TRUNKS
OP:LIST,TG
```
OOS = Out-of-service. Default case in specified OP:LIST subcategories. Valid value(s):

OP:LIST, AP
OP:LIST, AQEST
OP:LIST, BST
OP:LIST, DATALINKS
OP:LIST, HOBICR
OP:LIST, HOBIS
OP:LIST, LINES
OP:LIST, MISLNK
OP:LIST, OAPF
OP:LIST, OAPO
OP:LIST, OPT
OP:LIST, OSPSPORTS
OP:LIST, PRIGRP
OP:LIST, RAS
OP:LIST, TG
OP:LIST, TRUNKS
OP:LIST, XDPF
OP:LIST, XDPO

d = Port status - qualifier. Valid value(s):

BLKD = Blocked.
CADN = Circuit administration.
CUTOVER = Cutover (pre-cut) inactive state.
DSLINIT = Digital subscriber line (DSL) initialization.
FRCD = Forced.
MKBUSY = Make busy.
MTCE = Maintenance.
PPSRV = Pre/post service.
STBY = Standby.
TMT = Traffic management.
WAIT = Waiting for acknowledgement.

e = Port status - operational restrictions. Valid value(s):

BCOOS = Bearer channel is out-of-service.
BCMOOS = Bearer channel member is out-of-service.
BUSY = Forced busy by switch.
CCSINIT = Common channel signaling (CCS) initialization.
CONT = Continuity test failure (CCS only).
DCHOOS = D-channel is out-of-service.
DS0_OOS = ISLP member trunk is out-of-service.
DSBLD = Disabled.
FAF = Facility failure.
FE = Family of equipment.
HW = High and wet.
LKDO = Locked out.
LVL1ERR = Level 1 error.
LVL2ERR = Level 2 error.
LVL3ERR = Level 3 error.
PLGUP = Plug-up.
PPMOOS = Packet pipe member trunk is out-of-service.
PX = Power cross.
RAP = Recorded announcement port.

f = Port status - supplementary information. Valid value(s):
APAF = Associate facility failure.
AML = Automatic maintenance limit.
AQ = Autoquote problem.
AUDIT = Audit detected problem.
CAM = Centralized automatic message accounting.
CAROT = Centralized automatic reporting on trunks.
CDI = Control and data interface.
CKT = General circuit.
CTTU = Central trunk testing unit.
D IN = INITIAL response not received over DSL data link.
DM_RECD = Received a level 2 disconnect message frame from far end.
DS1OOS = Digital signal level 1 is out-of-service.
DYGSPUS = Dying gasp under study.
ERATC = Trunk error analysis test call failure.
ERATP = Trunk error analysis all tests passed.
FORPOT = Foreign potential.
GRD = Ground fault.
GRID = Line unit grid bad.
IAA = Ineffective attempt analysis.
INC = Incoming end. When used with the continuity status [OOS, maintenance (MTCE), CONT], it means that this CCS trunk is involved in automatic continuity retesting that is being controlled by the far end office.
ISLU = Integrated services line unit.
INIT = Initialization.
L2DOWN = For a packet-switched line, level 2 protocol in not established.
L2QLTY = Poor level 2 transmission quality. The line/trunk had too many level 2 protocol errors.
LINK1 = The basic rate interface transmission extension (BRITE) link one is down.
LINK2 = The BRITE link two is down.
LINK3 = The BRITE link three is down.
LINK4 = The BRITE link four is down.
LINK5 = The BRITE link five is down.
LINK6 = The BRITE link six is down.
MPP = Modem pool problem.
MSMTCH = Mismatch.
MTCECH = Maintenance channel.
NO_RESP = No response from far end during an attempted level 2 communication establishment.
NR = No response.
NRT = No response while in test mode.
NTDACT = Network termination (NT) is deactivated.
NTOFN = NT off normal.
NTPPWR = NT primary power is lost.
NTPWR = NT lost power.
NTSPWR = NT secondary power is lost.
ODD = Office dependent data.
OTG = Outgoing end. When used with the continuity status (OOS, MTCE, CONT), it means that this CCS trunk is the end controlling the automatic continuity retesting.

OPNOXL3 = Switch could not activate level 3 protocol.
PCTF = Per call test failure.
POSNOB = OSPS position no B-channel. Could not activate B-channel (voice) port of DSL.
POSNRESP = OSPS position failed to send initial response.
PPM = Periodic pulse metering unit.
PROV = Lines that have not yet been provisioned.
PSU = Packet switch unit.
RDATA = Remote digital test access.
RESTART = Q.931 restart message.
REX = Routine exercise.
RO = Routine/other.
ROTF = Routine operational test failure (such as, scanner stuck off-hook).
RSMMSA = Remote switching module (RSM) in module stand-alone mode (MSA) of operation.
RT = OOS in the RT.
RTTF = Routine transmission test failure.
SCC = Removed by Switching Control Center.
SERVICE = Q.931 service message.
SPARED = Line is involved in an ISLU sparing configuration.
STKSCN = Suspected stuck scan (STKSCN) lead on the line group controller (LGC) or the line card (LC).
SWEQF = Switch equipment failure.
TEST = In test mode.
TEST1 = Testing in progress at the NT or BRITE channel unit (CU) and the BRITE link one is down.
TEST2 = Testing in progress at the NT or BRITE CU and the BRITE link two is down.
TEST3 = Testing in progress at the NT or BRITE CU and the BRITE link three is down.
TEST4 = Testing in progress at the NT or BRITE CU and the BRITE link four is down.
TEST5 = Testing in progress at the NT or BRITE CU and the BRITE link five is down.
TEST6 = Testing in progress at the NT or BRITE CU and the BRITE link six is down.
TICOM = Treated interface unit common circuit.
TINTF = The T interface is down.
TRBL = Unspecified trouble.
TRBLORG = Origination trouble (for example, showering line).
TREQF = Transmission equipment failure.
TRKBD = Trunk board.
TRKCT = Trunk circuit.
UINTF = The ANSI® standard U-interface is down.

g = Port status- mode. Valid value(s):
AUTO = Automatic.
MAN = Manual.

h = Data link (group) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

k = Operator service center number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
m = SM number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

n = Packet switch unit (PSU) channel group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

s = Multi-line hunt group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

t = The lower limit of range of multi-line hunt group member numbers. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

u = The upper limit of range of multi-line hunt group member numbers. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

x = Trunk group or Bearer Independent Call Control (BICC) group number against which to generate the list. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

y = The lower limit of a range of trunk group member numbers or normalized Call Instance Codes (CICs). Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

z = The upper limit of a range of trunk group member numbers or normalized CICs. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

d¹ = Digital line and trunk unit (DLTU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

e¹ = DFI number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

f¹ = PRI group number. If a number is specified, all the D- and B-channels in the PRI group are output that match the status given. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

k¹ = EIS identifier (ID) on which the CPDL terminates. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

l¹ = Digital networking unit - SONET number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

m¹ = Data group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

n¹ = Synchronous transport signal (STS) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

o¹ = Virtual tributary group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

p¹ = RPCU number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

q¹ = Trunk group member number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
the Input Messages manual.

\( r^1 \) = SONET termination equipment (STE) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

\( s^1 \) = Virtual tributary member number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

\( t^1 \) = PLTU number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

\( u^1 \) = PCT facility interface (PCTFI) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

\( v^1 \) = Tributary number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

\( w^1 \) = Virtual analog line number. Refer to the APP:RANGES appendix in the Appendixes section of the

\( x^1 \) = Virtual BRI line number. Refer to the APP:RANGES appendix in the Appendixes section of the

\( y^1 \) = Virtual network announcement resource number. Refer to the APP:RANGES appendix in the Appendixes section of the

\( z^1 \) = Virtual trunk facility number. Refer to the APP:RANGES appendix in the Appendixes section of the

\( a^2 \) = Virtual trunk channel number. Refer to the APP:RANGES appendix in the Appendixes section of the

\( b^2 \) = OIU number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

\( c^2 \) = Protection group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

\( d^2 \) = STM-1 number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

\( e^2 \) = High order virtual container number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

\( f^2 \) = Low order virtual container group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

\( g^2 \) = Low order virtual container member number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

### 4. SYSTEM RESPONSE

\( PF \) = Printout follows. The request has been accepted and is followed by OP:LIST-DATA, OP:LIST-DATALIN, OP:LIST-LINES, OP:LIST-OSPSPOR, OP:LIST-REPORT, OP:LIST-SUM or the OP:LIST-TRUNK output message. When the request is entered from the master control center (MCC), the output will also be directed to the ROP.
5. REFERENCES

Input Message(s):

OP:STATUS
STP:LIST

Output Message(s):

OP:LIST-DATA
OP:LIST-DATA-LIN
OP:LIST-LINES
OP:LIST-OSPSPOR
OP:LIST-REPORT
OP:LIST-SUM
OP:LIST-TRUNK

Input Appendix(es):

APP:RANGES

Output Appendix(es):

APP:PORT-STATUS

Other Manual(s):
235-105-110  System Maintenance Requirements and Tools
235-900-341  National ISDN Basic Rate Interface Specification
250-500-100  OSPS General Description
OP:LIST-C

Software Release: 5E16(1) and later
Command Group: TRKLN
Application: 5
Type: Input

1. PURPOSE

Requests a list of trunks, lines, data links, or operator services position system ports (OSPSPORTs) that currently match the status specified in the request.

Any port type that uses the digital facility interface (DFI) can be listed by specifying the DFI. Any port type that uses the digital network unit - synchronous optical network (SONET) (DNU-S) can be listed by specifying the virtual tributary level 1 facility (VT1FAC). Ports that use the radio port controller units (RPCU) can be listed by specifying the RPCU. All switched virtual circuit (SVC) ports on a frame relay bearer channel (FRBC) can be listed by specifying the FRBC group and member. Any port type on a peripheral control and timing line and trunk unit (PLTU) facility can be listed by specifying the PLTU facility number. Any port type on a optical interface unit (OIU) facility can be listed by specifying the OIU facility number. Not all in-service trunks, lines, data links, or OSPSPORTs in either the entire office or a specified switching module (SM) can be listed. A subset can be listed (refer to the EXPLANATION OF MESSAGE for details). Only one OP:LIST request can be active in the system at any moment; any additional requests will be denied.

2. FORMAT

OP:LIST,a[,FULL],SUM][,SM=b][,c][,d][,e][,f][,g];

3. EXPLANATION OF MESSAGE

NOTE: Refer to the Acronym section of the Input Messages manual for the full expansion of acronyms shown in the format.

FULL = Use the primary and pending statuses for match and print in the output list. When FULL is not specified (default), only the primary status is used to match and only the primary status is printed on the output list. FULL and SUM may not be specified together. SUM only allows for a summary on one status.

PRIGRP = Primary rate interface (PRI) group. If this specifier is entered by itself, all OOS PRIGRP D-channels are printed that match the status given. This does not include OSPS PRI D-channels, since they are not assigned a PRI group number.

SUM = Print a summary report. This report gives only the number of ports that matched the status. (Incompatible with [,FULL]).

a = Unit. Valid value(s):
   AP [=h]
   AQEST
   AQM [=h]
   AQ [=h]
   BST [=k]
   DASC [=h]
   DATALINKS
   DFI=m-d^1-e^1
   DSLG=m-h^2-n
EIS\[=k^1\]
FRBC=x-q^1
HOBICR\[=h\]
HOBICV\[=h\]
HOBIS\[=h\]
LINES
MISLNK\[=h\]
MLHG=s[-t&&u]
OAPF
OAPO
OIUFAC=m-b^2-c^2-d^2-e^2-o^1-s^1
OPT\[=k\]
OSPSPORTS
PLTUFAC=m-t^1-u^1-v^1
PRIGRP\[=f^1\]
RAS\[=h\]
RFCU\[=p^1\]
RTRS\[=h\]
TG=x[-y&&z]
TRUNKS
VT1FAC=m-l^1-m^1-r^1-n^1-o^1-s^1
XDB\[=h\]
XDPO

\( \text{b} \) = SM number. Restrict the output to one switching module. Refer to the APP:RANGES appendix in the Appendices section of the Output Messages manual.

Variables 'c' through 'g' are subfields giving the port status [default is out-of-service (OOS)] to match against the subset of trunks, lines, data links, or OSPSPORTs. If a subfield is omitted, any value for that subfield will match. Fields are always separated by a single comma, even if in-between fields are omitted (as in OOS,MAN). If a group number or group and range of members were specified and all status subfields were omitted, then all the statuses will be listed including in-service for that group or range of members.

\( \text{c} \) = Port status - basic state. Valid value(s):

\( \text{IS} \) = In-service. If 'd' = FRCD, then 'a' must be

\( \text{AP} \)
DATALINKS
HOBICR
HOBIS
LINES
MISLNK
OAPF
OAPO
PRIGRP
RAS
TRUNKS
TG

\( \text{OOS} \) = Out-of-service. This can only be applied if 'a' is:

\( \text{AP} \)
AQEST
BST
DATALINKS
HOBICR
HOBIS
LINES
MISLINK
OAPF
OAPO
OPT
OSPSPORTS
PRIGRP
RAS
TG
TRUNKS
XDPF
XDPO

d  = Port status - qualifier. Valid value(s):
BLKD = Blocked.
CADN = Circuit administration.
CUTOVER = Cutover (pre-cut) inactive state.
DSLINIT = Digital subscriber line (DSL) initialization.
FRCD = Forced.
MKBUSY = Make busy.
MTCE = Maintenance.
PPSRV = Pre/post service.
STBY = Standby.
TMT = Traffic management.
WAIT = Waiting for acknowledgement.

e  = Port status - operational restrictions. Valid value(s):
BCOOS = Bearer channel is out-of-service.
BCMOOS = Bearer channel member is out-of-service.
BUSY = Forced busy by switch.
CCSINIT = common channel signaling (CCS) initialization.
CONT = Continuity test failure (CCS only).
DCHOOS = D-channel is out-of-service.
DS0_OOS = ISLP member trunk is out-of-service.
DSBLD = Disabled.
FAF = Facility failure.
FE = Family of equipment.
HW = High and wet.
LKDO = Locked out.
LVL1ERR = Level 1 error.
LVL2ERR = Level 2 error.
LVL3ERR = Level 3 error.
PLGUP = Plug-up.
PPMOOS = Packet pipe member trunk is out-of-service.
PX = Power cross.
RAP = Recorded announcement port.
Port status - supplementary information. Valid value(s):

- **AFAF** = Associate facility failure.
- **AML** = Automatic maintenance limit.
- **AQ** = Autoquote problem.
- **AUDIT** = Audit detected problem.
- **CAMA** = Centralized automatic message accounting.
- **CAROT** = Centralized automatic reporting on trunks.
- **CDI** = Control and data interface.
- **CKT** = General circuit.
- **CTTU** = Central trunk testing unit.
- **DLNORS** = INITIAL response not received over DSL data link.
- **DM_ARCD** = Received a level 2 disconnect message frame from far end.
- **DS1OOS** = Digital signal level 1 is out-of-service.
- **DYGSPUS** = Dying gasp under study.
- **ERATC** = Trunk error analysis test call failure.
- **ERATP** = Trunk error analysis all tests passed.
- **FORPOT** = Foreign potential.
- **GRD** = Ground fault.
- **GRID** = Line unit grid bad.
- **IAA** = Ineffective attempt analysis.
- **INC** = Incoming end. When used with the continuity status [OOS, maintenance (MTCE), CONT], it means that this CCS trunk is involved in automatic continuity retesting that is being controlled by the far end office.
- **ISLU** = Integrated services line unit.
- **INIT** = Initialization.
- **L2DOWN** = For a packet-switched line, level 2 protocol is not established.
- **L2QLTY** = Poor level 2 transmission quality. The line/trunk had too many level 2 protocol errors.
- **LINK1** = The basic rate interface transmission extension (BRITE) link one is down.
- **LINK2** = The BRITE link two is down.
- **LINK3** = The BRITE link three is down.
- **LINK4** = The BRITE link four is down.
- **LINK5** = The BRITE link five is down.
- **LINK6** = The BRITE link six is down.
- **MPP** = Modem pool problem.
- **MSMTCH** = Mismatch.
- **MTCECH** = Maintenance channel.
- **NO_RESP** = No response from far end during an attempted level 2 communication establishment.
- **NR** = No response.
- **NRT** = No response while in test mode.
- **NTDACT** = Network termination (NT) is deactivated.
- **NTOF** = NT off normal.
- **NTPPWR** = NT primary power is lost.
- **NTL** = NT lost power.
- **NTSPWR** = NT secondary power is lost.
- **ODD** = Office dependent data.
- **OTG** = Outgoing end. When used with the continuity status (OOS, MTCE, CONT), it means that this CCS trunk is the end controlling the automatic continuity retesting.
- **OPNOXL3** = Switch could not activate level 3 protocol.
<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
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<tr>
<td>PCTF</td>
<td>Per call test failure.</td>
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<tr>
<td>POSNOB</td>
<td>OSPS position no B-channel. Could not activate B-channel (voice) port of DSL.</td>
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<tr>
<td>POSNRSP</td>
<td>OSPS position failed to send initial response.</td>
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<tr>
<td>PPM</td>
<td>Periodic pulse metering unit.</td>
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<tr>
<td>PROV</td>
<td>Lines that have not yet been provisioned.</td>
</tr>
<tr>
<td>PSU</td>
<td>Packet switch unit.</td>
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<tr>
<td>RDTA</td>
<td>Remote digital test access.</td>
</tr>
<tr>
<td>RESTART</td>
<td>Q.931 restart message.</td>
</tr>
<tr>
<td>REX</td>
<td>Routine exercise.</td>
</tr>
<tr>
<td>RO</td>
<td>Routine/other.</td>
</tr>
<tr>
<td>ROTF</td>
<td>Routine operational test failure (such as, scanner stuck off-hook).</td>
</tr>
<tr>
<td>RSMMSA</td>
<td>Remote switching module (RSM) in module stand-alone mode (MSA) of operation.</td>
</tr>
<tr>
<td>RT</td>
<td>OOS in the RT.</td>
</tr>
<tr>
<td>RTTF</td>
<td>Routine transmission test failure.</td>
</tr>
<tr>
<td>SCC</td>
<td>Removed by Switching Control Center.</td>
</tr>
<tr>
<td>SERVICE</td>
<td>Q.931 service message.</td>
</tr>
<tr>
<td>SPARED</td>
<td>Line is involved in an ISLU sparing configuration.</td>
</tr>
<tr>
<td>STKSCN</td>
<td>Suspected stuck scan (STKSCN) lead on the line group controller (LGC) or the line card (LC).</td>
</tr>
<tr>
<td>SWEQF</td>
<td>Switch equipment failure.</td>
</tr>
<tr>
<td>TEST</td>
<td>In test mode.</td>
</tr>
<tr>
<td>TEST1</td>
<td>Testing in progress at the NT or BRITE channel unit (CU) and the BRITE link one is down.</td>
</tr>
<tr>
<td>TEST2</td>
<td>Testing in progress at the NT or BRITE CU and the BRITE link two is down.</td>
</tr>
<tr>
<td>TEST3</td>
<td>Testing in progress at the NT or BRITE CU and the BRITE link three is down.</td>
</tr>
<tr>
<td>TEST4</td>
<td>Testing in progress at the NT or BRITE CU and the BRITE link four is down.</td>
</tr>
<tr>
<td>TEST5</td>
<td>Testing in progress at the NT or BRITE CU and the BRITE link five is down.</td>
</tr>
<tr>
<td>TEST6</td>
<td>Testing in progress at the NT or BRITE CU and the BRITE link six is down.</td>
</tr>
<tr>
<td>TICOM</td>
<td>Treated interface unit common circuit.</td>
</tr>
<tr>
<td>TINTF</td>
<td>The T interface is down.</td>
</tr>
<tr>
<td>TRBL</td>
<td>Unspecified trouble.</td>
</tr>
<tr>
<td>TRBLORG</td>
<td>Origination trouble (for example, showering line).</td>
</tr>
<tr>
<td>TREQF</td>
<td>Transmission equipment failure.</td>
</tr>
<tr>
<td>TRKBD</td>
<td>Trunk board.</td>
</tr>
<tr>
<td>TRKCT</td>
<td>Trunk circuit.</td>
</tr>
<tr>
<td>UINTF</td>
<td>The ANSI® standard U-interface is down.</td>
</tr>
</tbody>
</table>

**g** = Port status- mode. Valid value(s):
- Automatic.

**h** = Data link (group) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

**k** = Operator service center number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

**m** = SM number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
n = Packet switch unit (PSU) channel group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

s = Multi-line hunt group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

t = The lower limit of range of multi-line hunt group member numbers. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

u = The upper limit of range of multi-line hunt group member numbers. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

x = Trunk group or bearer independent call control (BICC) group number against which to generate the list. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

y = The lower limit of a range of trunk group member numbers or normalized call instance codes (CICs). Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

z = The upper limit of a range of trunk group member numbers or normalized CICs. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

d = Digital line and trunk unit (DLTU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

e = DFI number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

f = PRI group number. If a number is specified, all the D- and B-channels in the PRI group are output that match the status given. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

k = EIS identifier (ID) on which the CPDL terminates. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

l = Digital networking unit - SONET number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

m = Data group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

n = Synchronous transport signal (STS) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

o = Virtual tributary group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

p = RPCU number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

q = Trunk group member number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

r = SONET termination equipment (STE) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
s^1 = Virtual tributary member number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

t^1 = PLTU number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

u^1 = PCT facility interface (PCTFI) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

v^1 = Tributary number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

w^1 = Virtual analog line number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

x^1 = Virtual BRI line number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

y^1 = Virtual network announcement resource number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

z^1 = Virtual trunk facility number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

a^2 = Virtual trunk channel number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

b^2 = OIU number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

c^2 = Protection group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

d^2 = OC-3 STE number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

e^2 = STS level 1 (STS-1) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

h^2 = PSU unit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

PF = Printout follows. The request has been accepted and is followed by OP:LIST-DATA, OP:LIST-DATALIN, OP:LIST-LINES, OP:LIST-OSPSPOR, OP:LIST-REPORT, OP:LIST-SUM or the OP:LIST-TRUNK output message. When the request is entered from the master control center (MCC), the output will also be directed to the ROP.

RL = Retry later. The request has been denied, most probably due to system load.

5. REFERENCES
Input Message(s):

OP:STATUS
STP:LIST

Output Message(s):

OP:LIST-DATA
OP:LIST-DATALIN
OP:LIST-LINES
OP:LIST-OSPSPOR
OP:LIST-REPORT
OP:LIST-SUM
OP:LIST-TRUNK

Input Appendix(es):

APP:RANGES

Output Appendix(es):

APP:PORT-STATUS

Other Manual(s):
235-105-110 System Maintenance Requirements and Tools
235-900-341 National ISDN Basic Rate Interface Specification
250-500-100 OSPS General Description
OP:LIST-FLOWACT

Software Release: 5E17(1) and later
Command Group: MAINT
Application: 5
Type: Input

1. PURPOSE

Requests a list of all active performance monitoring (PM) sessions established internally or externally. Internal PM sessions are PM sessions established by the host switch. External PM sessions are PM sessions established either by another switch, by the same switch using an intra-switching module (SM) and inter-packet switch unit (PSU) connection (when dual PSUs exist), or by the same switch using an inter-SM connection.

A PSU asynchronous transfer mode (ATM) link (PSALNK) provides the ability to interconnect the local PSU with multiple other PSUs in the ATM network, as designated by their community address and subnetwork identifiers. Each of these PSU-to-PSU connections can be monitored internally for performance-impacting metrics in accordance to the GR-1248 ATM standards and included in the relevant switch measurement reports for output. Similarly, the far endpoint of each PSU-to-PSU connection can request that the identical virtual circuit be monitored for data collection.

The purpose of this input message is to request a list of active PM activity initiated by near or far endpoints. The input message ALW:PM allows internal PM sessions and the input message ALW:EXTPM allows external PM sessions. The corresponding INH:PM and INH:EXTPM input messages provide a means of disabling internal and external PM activity respectively.

Any single ATM virtual circuit may be tracked for performance activity by both the host 5ESS® switch and a remote endpoint simultaneously. Such a PM session has both internal and external properties. When both endpoints have identical connection types [for example, both are virtual path connections (VPC) or both are virtual channel connections (VCC)], this PM session is referred to as a shared flow.

If the PSALNK option is included, only PM sessions on the specified PSALNK will be affected by the input message. If the ALL option is included, all PSALNKs in the office will be affected by the input message.

PM is only supported over a virtual circuit terminated locally by a PSALNK hosted on a protocol handler for ATM version 2 (PHA2).

2. FORMAT

OP:LIST-FLOWACT,{ALL|PSALNK=a-b-c};

3. EXPLANATION OF MESSAGE

a = SM number of the target PSALNK.
b = PSU number of the target PSALNK.
c = Link number of the target PSALNK.

4. SYSTEM RESPONSE

PF = Printout follows. Followed by one or more OP:LIST-FLOWACT output messages.
NG = No good. May also include:
- NO PHA2 PSALNK EQUIPPED = The request has been denied. The message is valid but no
PSALNKs within the scope of the input message were detected in the current equipage.

- **PSALNK UNEQUIPPED** = The request has been denied. The message is valid but the specified PSALNK was not detected in the current equipage.
- **MUST BE A PHA2 PSALNK** = The request has been denied. The message is valid but the specified PSALNK is not hosted by a PHA2.
- **DATABASE ERROR** = The request has been denied. The message is valid but an internal database error has prevented any action from being taken.
- **INTERNAL CORRUPTION** = The request has been denied. The message is valid but an internal data corruption error has prevented any action from being taken.
- **AM TIMER NOT STARTED** = The request has been denied. The message is valid but a shortage of system resources has prevented any action from being taken.

**RL**

- **PREVIOUS REQUEST IN PROGRESS** The request has been denied. The message is valid but the previous request must complete before a new request can be made.

### 5. REFERENCES

**Input Message(s):**

```
ALW:EXTPM
ALW:PM
INH:EXTPM
INH:PM
```

**Output Message(s):**

```
ALW:EXTPM
ALW:PM
INH:EXTPM
INH:PM
OP:LIST-FLOWACT
```

**Input Appendix(es):**

```
APP: RANGES
```
OP:LIST-ISMNAIL-A

Software Release: 5E14 - 5E15
Command Group: N/A
Application: 5
Type: Input

1. PURPOSE

Outputs a status list of all inter-SM (switching module) nailups (ISMNAIL) used for packet transport between two SMs. Variants are permitted to obtain the primary status of all nailups emanating from a specific SM or channel group (Format 1), or the primary/history states of all nailups between a designated pair of SMs (Format 2). Also available are "state filtering options" to output only selected classes of output status.

2. FORMAT

[1] OP:LIST,ISMNAIL,SM=a[,CHNG=b][,ALL|IS|OOS];
[2] OP:LIST,ISMNAIL,SM=c,MATESM=d[,ALL|IS|OOS];

3. EXPLANATION OF MESSAGE

ALL = This option allows output for all ISMNAILs to be produced, regardless of status.
IS = This option allows only output for operational in-service (IS) or automatic time slot switching (IS-AUTISS) ISMNAILs to be reported.
OOS = This option allows only output for out-of-service (OOS) ISMNAILs to be reported. This is the default, if no option is specified.
a = SM number from which status of ISMNAILs are desired.
b = Channel group (CHNG) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
Note: If this option is included, only the primary status of ISMNAILs associated with the specified CHNG are provided. Without this option, all ISMNAILs on the specified source SM will be considered.
c = SM number from which primary and history status of ISMNAILs between a pair of SMs is desired.
d = Mate SM number is the other SM of interest.

4. SYSTEM RESPONSE

NG = No good. May also include:
- SM ## NOT IN THE ISM NETWORK = The request has been denied. Either the source or the destination SM or both have no ISMNAILs associated with it.
PF = Printout follows. The request has been accepted and is followed by the OP:LIST-ISMNAIL output message.
= Retry later. The request cannot be executed immediately because the automatic task administrator (ATA) cannot currently schedule a new task, or another OP:LIST-ISMNAIL or OP:OFFNORM-IS request is in progress (no more than one task of this type may be executed at any given time); retry later, when system load is reduced.

5. REFERENCES

Input Message(s):

STP:ISMNAIL

Output Message(s):

OP:LIST-ISMNAIL
OP:OFFNORM-IS

Input Appendix(es):

APP:RANGES
OP:LIST-ISMNAIL-B

Software Release: 5E16(1) and later
Command Group: TRKLN
Application: 5
Type: Input

1. PURPOSE

Outputs a status list of all inter-SM (switching module) nailups (ISMNAIL) used for packet transport between two SMs. Variants are permitted to obtain the primary status of all nailups emanating from a specific SM or channel group (Format 1), or the primary/history states of all nailups between a designated pair of SMs (Format 2). Also available are "state filtering options" to output only selected classes of output status.

2. FORMAT

[1] OP:LIST,ISMNAIL,SM=a[,CHNG=b-c][,ALL|IS|OOS];
[2] OP:LIST,ISMNAIL,SM=d,MATESM=e[,ALL|IS|OOS];

3. EXPLANATION OF MESSAGE

ALL = This option allows output for all ISMNAILs to be produced, regardless of status.

IS = This option allows only output for operational in-service (IS) or automatic time slot switching (IS-AUTISS) ISMNAILs to be reported.

OOS = This option allows only output for out-of-service (OOS) ISMNAILs to be reported. This is the default, if no option is specified.

a = SM number from which status of ISMNAILs are desired.

b = PSU Number

c = Channel group (CHNG) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

Note: If this option is included, only the primary status of ISMNAILs associated with the specified CHNG are provided. Without this option, all ISMNAILs on the specified source SM will be considered.

d = SM number from which primary and history status of ISMNAILs between a pair of SMs is desired.

e = Mate SM number is the other SM of interest.

4. SYSTEM RESPONSE

NG = No good. Valid value(s):
- SM ## NOT IN THE ISM NETWORK = The request has been denied. Either the source or the destination SM or both have no ISMNAILs associated with it.

PF = Printout follows. The request has been accepted and is followed by the OP:LIST-ISMNAIL output
message.

RL = Retry later. The request cannot be executed immediately because the automatic task administrator (ATA) cannot currently schedule a new task, or another OP:LIST-ISMNAIL or OP:OFFNORM-IS request is in progress (no more than one task of this type may be executed at any given time); retry later, when system load is reduced.

5. REFERENCES

Input Message(s):

STP:ISMNAIL

Output Message(s):

OP:LIST-ISMNAIL
OP:OFFNORM-IS

Input Appendix(es):

APP:RANGES
OP:LISTOTO

Software Release: 5E14 and later
Command Group: TRKLN
Application: 5
Type: Input

1. PURPOSE

Requests a listing of the unassigned (UNA) lines, the integrated SLC® (ISLC) lines, and/or the integrated digital carrier unit (IDCU) lines within a specified range of directory numbers, SLC® line equipment numbers (SLENs), or IDCU line equipment numbers (ILENs). This message is used to obtain a listing of these lines before an office-to-office test program (EX:OTO) is exercised.

If the UNA, ISLC, and IDCU options are all omitted from the input message, a line report will be printed for every line within the range to allow verification of the 5ESS® switch translations with office records.

Note: To reduce the possibility of loss of results due to message throttling, the OP:LISTOTO input message should be run at periods of low activity. In addition, refer to the INH:BREVC input message.

2. FORMAT

OP:LISTOTO[,UNA][,ISLC][,IDCU][,NPA=r],i;

3. EXPLANATION OF MESSAGE

a = Three-digit office code.
b = Local digits of the first or only line of the range.
c = Local digits of the last line of the range.
d = Switching module (SM) number.
e = Digital carrier line unit (DCLU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
f = Remote terminal (RT) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
g = First or only RT line number of the range. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
h = Last RT line number of the range. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
i = Equipment number. Valid value(s):

\[DN=a-b[&&c]\]
\[ILEN=d-j-k-l[&&m]\]
\[INEN=d-n-o-p-q[&&h]\]
\[SLEN=d-e-f-g[&&h]\]
j = Integrated digital carrier unit (IDCU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

k = RT number or IDCU digital signal level 1 (DS1) serving PUB43801 number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

l = First or only RT line number or PUB43801 channel of the range. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

m = Last RT line number or PUB43801 channel of the range. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

n = Digital network unit (DNU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

o = Remote terminal (RT) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

p = First or only RT line number of the range. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

q = Last RT line number of the range. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

r = Numbering Plan Area or Area Code of the DN.

4. SYSTEM RESPONSE

PF = Printout follows. The message has been accepted and is followed by the OP:LISTOTO output message.

RL = Retry later. The request has been denied due to unavailable system resources.

5. REFERENCES

Input Message(s):

EX:OTO
INH:BREVC
STP:LISTOTO

Output Message(s):

OP:LISTOTO

Other Manual(s):
235-105-200 Precutover and Cutover Procedures
OP:LIT

Software Release: 5E14 and later
Command Group: TRKLN
Application: 5
Type: Input

1. PURPOSE

Reports the progress of automatic line insulation testing (ALIT), showing the ALIT testing status for each modular metallic service unit (MMSU) in the office.

2. FORMAT

OP:LIT;

3. EXPLANATION OF MESSAGE

No variables.

4. SYSTEM RESPONSE

NG  = No good. The message was not recognized.
PF  = Printout follows. Followed by the OP:LIT output message.
RL  = Retry later. May also include:
     AM IN MIN MODE = The message was denied because the administrative module is in minimum (min) mode. Input the message again after the AM has been reinitialized to exit min mode.
     OPLIT ACTIVE = The message was denied because another OP:LIT message is currently active.
     RESOURCE SHORTAGE = The request has been denied because of a resource shortage.
     SYSTEM PROBLEM = The request has been denied because of system problem other than a resource shortage.

5. REFERENCES

Output Message(s):

OP:LIT
OP:LNSTAT

Software Release: 5E12 and later
Command Group: N/A
Application: 5,CNI
Type: Input

1. PURPOSE

Requests that a snapshot of certain key link node (link interface and node processor) status and data information be output. The requested data to be output is described in the OP:LNSTAT output manual page. The requested data is intended to aid in troubleshooting and analyzing link node problems. This input message is valid only for Signaling System 7 (SS7) links.

2. FORMAT

OP:LNSTAT=a-b[:DEST=c];

3. EXPLANATION OF MESSAGE

a = Link group number.

b = Link member number.

c = Destination class. The destination number to output device cross reference can be found by using the OP:OUTCLS input message.

4. SYSTEM RESPONSE

NG = No good. The request was not accepted, reason to follow.

PF = Printout follows. Followed by the OP:LNSTAT output message.

RL = Retry later. The OP:LNSTAT cannot execute at this time, reason to follow.

5. REFERENCES

Input Message(s):

OP:OUTCLS

Output Message(s):

OP:LNSTAT
OP:LNUPD

Software Release: 5E14 and later
Command Group: CCS
Application: CNI
Type: Input

1. PURPOSE
Generates a printout of the status for the last LNUPD:LN input message request. Used to get the status of the SS7 node(s) software update process.

2. FORMAT
OP:LNUPD:[DEST=a];

3. EXPLANATION OF MESSAGE
   a = The specified destination output class. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE
Input message acknowledgements:
   IP = Followed by the OP LNUPD output message.
   RL = Request cannot be executed now due to unavailable system resources.
   ?D = Data Field contains an error.

5. REFERENCES
Input Message(s):
   LNUPD:LN
   STOP:LNUPD

Output Message(s):
   LNUPD:LN
   OP:LNUPD
   REPT:LNUPD LN
   STOP:LNUPD
OP:LOG

Software Release: 5E14 and later
Command Group: FHADM
Application: 5,3B
Type: Input

1. PURPOSE

Requests that selected contents of a logfile be printed (output). If the logfile is the only criterion entered, the first 200 entries of the logfile are printed. Otherwise, only the entries in the logfile that meet all of the selection criteria are printed. Unless the LIMIT option is specified as one of the criteria, the first 200 entries that match all the selection criteria are printed.

The entire output report is always routed to the read-only printer (ROP). The amount of data output routed to the terminal is determined by the input message line options selected and the size of the data output. When the "CLASS" option is set to "T," the entire output report is routed to the terminal as well as the ROP. When the "CLASS" option is set to "R," the entire output report is routed to the ROP, and only the COMPLETED message is routed to the terminal.

Note: The COMPLETED message also contains the last non-full segment, if it exists, of the output report. If the data output fills 'n' complete segments (where 'n' is an integer greater than or equal to 1) then the COMPLETED message (and no output data) is printed at the terminal.

When the "DEVICE" option is set to a valid device, the entire output report is routed to the specified device as well as the ROP with nothing being output to the terminal.

There are two formats, depending on the way the starting and ending dates and times are specified.

The DATE, TIME, ID, MSGCLS and TYPE options are matched with information contained in the user control string which the spooler adds as a prefix to each message before storing it in the logfile. The user control string is not part of the OP:LOG output. The keyword (KW) option matches on the text of each message.

2. FORMAT

[1] OP:LOG:LG="a"[:,DATE=b[&c]][,TIME=d[&e]][,KW="f"][,ID=g]
[,MSGCLS=l][,TYPE=h][,LIMIT=i][,CLASS=j],DEVICE="k")

[2] OP:LOG:LG="a"[:,DATE=m[&n]][,KW="f"][,ID=g]
[,MSGCLS=l],TYPE=h][,LIMIT=i][,CLASS=j],DEVICE="k")

3. EXPLANATION OF MESSAGE

a = Name of the logfile. Any valid administrative module (AM) logfile name. The current logfile names are:
AMAERLOG
AUDLOG
AMTRCLOG
CMDLOG
CMONLOG
CNCELOG
CONFLOG
DAYLOG
DKDRVLOG
Most logfile names can be found in the APP:MSGCLS appendix in the Appendixes section of the Output Messages manual.

- **b**: Start date, given as a 6-digit number in the form mmddyy.
- **c**: End date, given as a 6-digit number in the form mmddyy. Default is start date.
- **d**: Start time, given as a 4-digit number in the form hhmm.
- **e**: End time, given as a 4-digit number in the form hhmm. Default = start time.
- **f**: A keyword that appears in all entries that are to be reported.
- **g**: Four-digit decimal number which is used to link an item in a logfile with an entry in another file. The ID is filled in by the process that made the logfile entry: for example, 1234, 0017, 0003.
- **h**: Four-digit decimal number that specifies the type of entry in a logfile. The TYPE is filled in by the process which made the logfile entry; for example, 1234, 0945, 0005.
- **i**: The maximum number of output entries requested. Default = 200. OP:LOG will report output complete if this limit is reached.
- **j**: Location to which output should be routed. Valid value(s):
  - **R**: Receive-only printer (default).
  - **T**: Terminal and read-only printer.
- **k**: A specific device to which output should be routed. This device should not be a logfile device. For example, "ttyc" will direct the output to /dev/ttyc.
- **l**: A message class name (1-9 characters). This name is encoded in the user control string as a four-digit decimal number.
- **m**: Start date and time, given as a 10-digit number in the form mmddyyhhmm. For example, October 2 1987 at 10:00 PM is given as 1002872200.
4. SYSTEM RESPONSE

IP = In progress.

RL = Retry later. Valid value(s):
   - CANNOT ATTACH TO ECD = Could not attach to the equipment configuration database (ECD).

5. REFERENCES

Input Message(s):

   DEL:LOG

Output Message(s):

   DEL:LOG
   OP:LOG

Output Appendix(es):

   APP:MSGCLS

Other Manual(s):

235-105-210  Routine Operations and Maintenance
235-105-250  System Recovery Procedures
235-600-400  Audits
OP:LPS

Software Release: 5E14 and later
Command Group: N/A
Application: 5
Type: Input

1. PURPOSE

Requests the current and backup log/print status (LPS).

Format 1 requests the status of one or all message classes. Format 2 requests all message classes for which the current status matches the entered status.

2. FORMAT

[1] OP:LPS,MSGCLS={a|ALL};
[2] OP:LPS[,LOG=b][,PRINT=c];

3. EXPLANATION OF MESSAGE

ALL = Print statuses of all message classes.

a = Valid message class.

Note: The default for variables 'b' and 'c' is to print all statuses of all message classes.

b = Daylog routing status (ON or OFF).

c = Equipment configuration data base (ECD) routing status (ON or OFF).

4. SYSTEM RESPONSE

NG = No good. There was no message class with current status matching the entered status.

PF = Printout follows.

RL = Retry later. The disk file which contains the tables cannot be found. A new file will be created, and the OP:LPS output message will be generated automatically. Retry after the new file is created.

5. REFERENCES

Input Message(s):

CHG:LPS-MSGCLS
OP:LOG

Output Message(s):

OP:LPS
Other Manual(s):

Where 'x' is the release-specific version of the document.

235-100-125  System Description
235-600-30x  ECD/SG Data Base
50. OP:M
1. PURPOSE

Requests a specified package from the five-minute (M5) surveillance data.

Note: For offices that have a direct link to the remote network management center, the network management (NM) trunk group schedule can be as large as 2000. Requesting the TGMEAS package may cause a large amount of data to be printed on the read-only printer (ROP).

WARNING: To accommodate up to 2000 trunk groups, more than 100 messages will be printed on the ROP.

For the TGMEAS and TGFLAG packages, the printing of the reports can be stopped with the use of the STP:NMOP input message. Specifying the "TG=" parameter in the input message will print the report for a specific trunk group.

2. FORMAT

\[ \text{OP:M5,PKG=a[,TG=b][,NODES=c-d];} \]

3. EXPLANATION OF MESSAGE

\[ a \quad \text{= Package. Valid value(s):} \]

- ASPTF = Advanced services platform toll free counts.
- BNP = Basic number portability measurements.
- CCS = Common channel signaling general service measurements.
- CCSP = Common channel signaling special service measurements.
- CGAP = Code control.
- CLCT = Network management control counts.
- CLDIR = Call direction.
- DLYR = Delayed readiness.
- EON5 = End office nodal phase 5.
- GETSHPC = Government emergency telecommunications service high probability of call completion.
- HPCTG = High probability of call completion trunk group.
- IECSSST = Inter-exchange carrier start signal timeout counts.
- IECSTG = Inter-exchange carrier shared trunk group counts.
- IMA = Additional ineffective machine attempts.
- LN = Leased network action point.
- LNCU = Leased network office-wide measurements for critical users.
- LNNODE = Leased network node-to-node measurements.
- MLNC = Failure to match and no circuit.
- NS = Number services.
- OVRLD = Overload or congestion.
- RRC = Manual reroute trunk group controls.
SDN = Software-defined network.
SVC = Critical service circuits.
TGFLAG = Trunk group flags.
TGMEAS = Basic trunk group.
WBTGMEAS = Wideband trunk group.

b = Trunk group number. This parameter is only specified with the TGMEAS or TGFLAG packages. For the TGMEAS package, this trunk group must be on the NM trunk group schedule. The default is all trunk groups on the NM trunk group schedule. If the trunk group is not on the NM trunk group schedule, use the ASGN:NMSCH input message to assign it. For the TGFLAG package, this trunk group does not have to be on the NM trunk group schedule.

c = CLLI code.

d = Voice/data indicator. Valid value(s):
    D = Data indicator.
    V = Voice indicator.

Note: The parameters ‘c’ and ‘d’ indicate a node and are only specified with the LNNODE package. The default is all nodes on the NM node schedule. If the node requested is not on the NM node schedule, use the ASGN:NMNODES input message to assign it.

4. SYSTEM RESPONSE

NG = No good. May also include:
    - DATA NOT COLLECTED = The request has been denied. The trunk group or node requested has been scheduled, but the data has not yet been collected.
    - FEATURE NOT AVAILABLE = The request has been denied. The requested feature is not available.
    - INVALID REQUEST = The request has been denied. This office is not equipped to process the request entered.
    - NODE UNASSIGNED = The request has been denied. The node requested is not on the NM node schedule, and is not included in the measurement collection. Use the ASGN:NMNODES input message to add the node to the NM node schedule. Wait for the next five-minute collection period and re-enter the request.
    - PACKAGE UNASSIGNED = The request has been denied. The data for the package requested is not currently being collected. Use the SET:M5 input message to add the package to the package list so data will be collected. Wait for the next five minute collection period and re-enter the request.
    - TG UNASSIGNED = The request has been denied. The trunk group requested is not on the NM schedule, and is not included in the measurement collection. Use the ASGN:NMSCH input message to add the trunk group to the NM schedule. Wait for the next five minute collection period and re-enter the request.

PF = Printout follows. Followed by the OP:M5 output message. May also include:
    - DATA SUSPECT = Measurement data may not be accurate or complete.

RL = Retry later. May also include:
CONFLICTING REQUEST = A similar request is being processed utilizing necessary resources.
LOCKED OUT = Measurement data is in the process of being collected.
RESOURCE SHORTAGE = The necessary resources are not available.

5. REFERENCES

Input Message(s):

ASGN:NMNODES
ASGN:NMSCH
CLR:M5
CLR:NMNODES
CLR:NMSCH
OP:M5
OP:NMNODES
OP:NMSCH
SET:M5
STP:NMOP

Output Message(s):

OP:M5-CCS
OP:M5PKG-ASPTF
OP:M5PKG-BNP
OP:M5PKG-CCSP
OP:M5PKG-CGAP
OP:M5PKG-CLCT
OP:M5PKG-CLDIR
OP:M5PKG-DLYR
OP:M5PKG-IECSST
OP:M5PKG-IECSTG
OP:M5PKG-IMA
OP:M5PKG-LN
OP:M5PKG-LNCU
OP:M5PKG-LNNODE
OP:M5PKG-MLNC
OP:M5PKG-NS
OP:M5PKG-OVRLD
OP:M5PKG-RRC
OP:M5PKG-SDN
OP:M5PKG-SVC
OP:M5PKG-TGFLAG
OP:M5PKG-TGMEAS
OP:M5PKG-WBTGME

Other Manual(s):

235-070-100  Switch Administration Guidelines
OP:M5-B

Software Release: 5E15 only
Command Group: NMOC
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Requests a specified package from the five-minute (M5) surveillance data.

Note: For offices that have a direct link to the remote network management center, the network management (NM) trunk group schedule can be as large as 2000. Requesting the TGMEAS package may cause a large amount of data to be printed on the read-only printer (ROP).

WARNING: To accommodate up to 2000 trunk groups, more than 100 messages will be printed on the ROP.

For the TGMEAS and TGFLAG packages, the printing of the reports can be stopped with the use of the STP:NMOP input message. Specifying the "TG=" parameter in the input message will print the report for a specific trunk group.

2. FORMAT

OP:M5,PKG=a[,TG=b][,NODES=c-d];

3. EXPLANATION OF MESSAGE

\[ a \]
= Package. Valid value(s):

- ASPTF = Advanced services platform toll free counts.
- BICCMEAS = Bearer independent call control measurements.
- BNP = Basic number portability measurements.
- CCS = Common channel signaling general service measurements.
- CCSP = Common channel signaling special service measurements.
- CGAP = Code control.
- CLCT = Network management control counts.
- CLDIR = Call direction.
- DLYR = Delayed readiness.
- EON5 = End office nodal phase 5.
- GETSHPC = Government emergency telecommunications service high probability of call completion.
- HPCBICC = High probability of call completion BICC group.
- HPCTG = High probability of call completion trunk group.
- IECSST = Inter-exchange carrier start signal timeout counts.
- IECSTG = Inter-exchange carrier shared trunk group counts.
- IMA = Additional ineffective machine attempts.
- LN = Leased network action point.
- LNCU = Leased network office-wide measurements for critical users.
- LNNODE = Leased network node-to-node measurements.
- MLNC = Failure to match and no circuit.
- NS = Number services.
OVRLD = Overload or congestion.
RRC = Manual reroute trunk group controls.
SDN = Software-defined network.
SVC = Critical service circuits.
TGFLAG = Trunk group flags.
TGMEAS = Basic trunk group.
WBTGMEAS = Wideband trunk group.

b = Trunk group number. This parameter is only specified with the TGMEAS or TGFLAG packages. For the TGMEAS package, this trunk group must be on the NM trunk group schedule. The default is all trunk groups on the NM trunk group schedule. If the trunk group is not on the NM trunk group schedule, use the ASGN:NMSCH input message to assign it. For the TGFLAG package, this trunk group does not have to be on the NM trunk group schedule.

c = CLLI code.

d = Voice/data indicator. Valid value(s):
D = Data indicator.
V = Voice indicator.

Note: The parameters 'c' and 'd' indicate a node and are only specified with the LNNODE package. The default is all nodes on the NM node schedule. If the node requested is not on the NM node schedule, use the ASGN:NMNODES input message to assign it.

4. SYSTEM RESPONSE

NG = No good. May also include:
- DATA NOT COLLECTED = The request has been denied. The trunk group or node requested has been scheduled, but the data has not yet been collected.
- FEATURE NOT AVAILABLE = The request has been denied. The requested feature is not available.
- INVALID REQUEST = The request has been denied. This office is not equipped to process the request entered.
- NODE UNASSIGNED = The request has been denied. The node requested is not on the NM node schedule, and is not included in the measurement collection. Use the ASGN:NMNODES input message to add the node to the NM node schedule. Wait for the next five-minute collection period and re-enter the request.
- PACKAGE UNASSIGNED = The request has been denied. The data for the package requested is not currently being collected. Use the SET:M5 input message to add the package to the package list so data will be collected. Wait for the next five minute collection period and re-enter the request.
- TG UNASSIGNED = The request has been denied. The trunk group requested is not on the NM schedule, and is not included in the measurement collection. Use the ASGN:NMSCH input message to add the trunk group to the NM schedule. Wait for the next five minute collection period and re-enter the request.

PF = Printout follows. Followed by the OP:M5 output message. May also include:
- DATA SUSPECT = Measurement data may not be accurate or complete.
RL = Retry later. May also include:
- CONFLICTING REQUEST = A similar request is being processed utilizing necessary resources.
- LOCKED OUT = Measurement data is in the process of being collected.
- RESOURCE SHORTAGE = The necessary resources are not available.

5. REFERENCES

Input Message(s):

ASGN:NMNODES
ASGN:NMSCH
CLR:M5
CLR:NMNODES
CLR:NMSCH
OP:M5
OP:NMNODES
OP:NMSCH
SET:M5
STP:NMOP

Output Message(s):

OP:M5-CCS
OP:M5PKG-ASPTF
OP:M5PKG-BICCMCE
OP:M5PKG-BNP
OP:M5PKG-CCSP
OP:M5PKG-CGAP
OP:M5PKG-CLCT
OP:M5PKG-CLDIR
OP:M5PKG-DLYR
OP:M5PKG-EON5
OP:M5PKG-GETSHP
OP:M5PKG-HPCBIC
OP:M5PKG-HPCTG
OP:M5PKG-IECSST
OP:M5PKG-IECSTG
OP:M5PKG-IMA
OP:M5PKG-LN
OP:M5PKG-LNCU
OP:M5PKG-LNNODE
OP:M5PKG-MLNC
OP:M5PKG-NS
OP:M5PKG-OVRLD
OP:M5PKG-RRC
OP:M5PKG-SDN
OP:M5PKG-SVC
OP:M5PKG-TGFLAG
OP:M5PKG-TGMEAS
OP:M5PKG-WBTGME
Other Manual(s):
235-070-100  Switch Administration Guidelines
1. PURPOSE

Requests a specified package from the five-minute (M5) surveillance data.

For offices that have a direct link to the remote network management center, the network management (NM) trunk group schedule can be as large as 2000. Requesting the TGMEAS package may cause a large amount of data to be printed on the ROP.

WARNING: To accommodate up to 2000 trunk groups, more than 100 messages will be printed on the ROP.

For the TGMEAS and TGFLAG packages, the printing of the reports can be stopped with the use of the STP:NMOP input message. Specifying the "TG=" parameter in the input message will print the report for a specific trunk group.

2. FORMAT

OP:M5,PKG=a[,TG=b][,NODES=c-d];

3. EXPLANATION OF MESSAGE

a = Package. Valid value(s):

<table>
<thead>
<tr>
<th>Package</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>ASPTF</td>
<td>Advanced services platform toll free counts.</td>
</tr>
<tr>
<td>BICCMEAS</td>
<td>Bearer independent call control measurements.</td>
</tr>
<tr>
<td>BNP</td>
<td>Basic number portability measurements.</td>
</tr>
<tr>
<td>CCS</td>
<td>Common channel signaling general service measurements.</td>
</tr>
<tr>
<td>CCSP</td>
<td>Common channel signaling special service measurements.</td>
</tr>
<tr>
<td>CGAP</td>
<td>Code control.</td>
</tr>
<tr>
<td>CLCT</td>
<td>Network management control counts.</td>
</tr>
<tr>
<td>CLDIR</td>
<td>Call direction.</td>
</tr>
<tr>
<td>CMIX</td>
<td>Call mix.</td>
</tr>
<tr>
<td>DLYR</td>
<td>Delayed readiness.</td>
</tr>
<tr>
<td>EON5</td>
<td>End office nodal phase 5.</td>
</tr>
<tr>
<td>GETSHPC</td>
<td>Government emergency telecommunications service high probability of call completion.</td>
</tr>
<tr>
<td>HPCBICC</td>
<td>High probability of call completion BICC group.</td>
</tr>
<tr>
<td>HPCTG</td>
<td>High probability of call completion trunk group.</td>
</tr>
<tr>
<td>HTRDDC</td>
<td>Hard to reach measurements.</td>
</tr>
<tr>
<td>ICMP</td>
<td>Internet protocol/internet control message protocol (IP/ICMP) measurements.</td>
</tr>
<tr>
<td>IECSSST</td>
<td>Inter-exchange carrier start signal timeout counts.</td>
</tr>
<tr>
<td>IECSTG</td>
<td>Inter-exchange carrier shared trunk group counts.</td>
</tr>
<tr>
<td>IMA</td>
<td>Additional ineffective machine attempts.</td>
</tr>
<tr>
<td>LN</td>
<td>Leased network action point.</td>
</tr>
<tr>
<td>LNCU</td>
<td>Leased network office-wide measurements for critical users.</td>
</tr>
<tr>
<td>LNNODE</td>
<td>Leased network node-to-node measurements.</td>
</tr>
</tbody>
</table>
MLNC = Failure to match and no circuit.
NS = Number services.
OVRLD = Overload or congestion.
PKTGRP = Packet group measurements.
RRC = Manual reroute trunk group controls.
SCTP = Stream control transmission protocol measurements.
SDN = Software-defined network.
SIPT = Session initiated protocol for telephony measurements.
SL = Signaling link.
SVC = Critical service circuits.
TGFLAG = Trunk group flags.
TGMEAS = Basic trunk group.
WBTGMEAS = Wideband trunk group.

b = Trunk group number. This parameter is only specified with the TGMEAS or TGFLAG packages. For the TGMEAS package, this trunk group must be on the NM trunk group schedule. The default is all trunk groups on the NM trunk group schedule. If the trunk group is not on the NM trunk group schedule, use the ASGN:NMSCH input message to assign it. For the TGFLAG package, this trunk group does not have to be on the NM trunk group schedule.

c = CLLI code.

d = Voice/data indicator. Valid value(s):
D = Data indicator.
V = Voice indicator.

The parameters 'c' and 'd' indicate a node and are only specified with the LNNODE package. The default is all nodes on the NM node schedule. If the node requested is not on the NM node schedule, use the ASGN:NMNODES input message to assign it.

4. SYSTEM RESPONSE

NG = No good. May also include:
- DATA NOT COLLECTED = The request has been denied. The trunk group or node requested has been scheduled, but the data has not yet been collected.
- FEATURE NOT AVAILABLE = The request has been denied. The requested feature is not available.
- INVALID REQUEST = The request has been denied. This office is not equipped to process the request entered.
- NODE UNASSIGNED = The request has been denied. The node requested is not on the NM node schedule, and is not included in the measurement collection. Use the ASGN:NMNODES input message to add the node to the NM node schedule. Wait for the next five-minute collection period and re-enter the request.
- PACKAGE UNASSIGNED = The request has been denied. The data for the package requested is not currently being collected. Use the SET:M5 input message to add the package to the package list so data will be collected. Wait for the next five minute collection period and re-enter the request.
- TG UNASSIGNED = The request has been denied. The trunk group requested is not on the NM schedule, and is not included in the measurement collection. Use the ASGN:NMSCH input message to add the trunk group to the NM schedule. Wait for the next five minute collection period and re-enter the request.
PF = Printout follows. Followed by the OP:M5 output message.

PF = Printout follows. May also include:
- DATA SUSPECT = Measurement data may not be accurate or complete.

RL = Retry later. May also include:
- CONFLICTING REQUEST = A similar request is being processed utilizing necessary resources.
- LOCKED OUT = Measurement data is in the process of being collected.
- RESOURCE SHORTAGE = The necessary resources are not available.

5. REFERENCES

Input Message(s):
ASGN:NMNODES
ASGN:NMSCH
CLR:M5
CLR:NMNODES
CLR:NMSCH
OP:M5
OP:NMNODES
OP:NMSCH
SET:M5
STP:NMOP

Output Message(s):
OP:M5-CCS
OP:M5PKG-ASPTF
OP:M5PKG-BICCMCE
OP:M5PKG-BNP
OP:M5PKG-CCSP
OP:M5PKG-CGAP
OP:M5PKG-CLCT
OP:M5PKG-CLDIR
OP:M5PKG-CMIX
OP:M5PKG-DLYR
OP:M5PKG-EON5
OP:M5PKG-GETSHP
OP:M5PKG-HPCBIC
OP:M5PKG-HPCTG
OP:M5PKG-IECSST
OP:M5PKG-IECSTG
OP:M5PKG-IMA
OP:M5PKG-LN
OP:M5PKG-LNCU
OP:M5PKG-LNNODE
OP:M5PKG-MLNC
OP:M5PKG-NS
OP:M5PKG-OVRLD
OP:M5PKG-RRC
OP: M5PKG-SDN
OP: M5PKG-SL
OP: M5PKG-SVC
OP: M5PKG-TGFLAG
OP: M5PKG-TGMEAS
OP: M5PKG-WBTGME

Other Manual(s):
235-070-100  Switch Administration Guidelines
OP:M5PKG

Software Release: 5E14 and later
Command Group: NMOC
Application: 5
Type: Input

1. PURPOSE

Requests the five-minute surveillance packages (PKG) assigned for both the remote network management system (RNMS) (the primary channel) and on-site channel (the backup channel).

2. FORMAT

OP:M5PKG;

3. EXPLANATION OF MESSAGE

No variables.

4. SYSTEM RESPONSE

PF = Printout follows. Followed by the OP:M5PKG output message.

5. REFERENCES

Input Message(s):

CLR:M5
OP:M5
SET:M5

Output Message(s):

OP:M5PKG

Other Manual(s):
235-070-100  Administration and Engineering Guidelines

MCC Display Page(s):

130 (NM EXCEPTION)
109 (OVERLOAD)
OP:MDII

Software Release: 5E14 and later
Command Group: MAINT
Application: 5
Type: Input

1. PURPOSE

Requests a list of all of the trunk groups and machine-detected interoffice irregularities (MDIIs) that are being suppressed by a suppression MDII.

2. FORMAT

OP:MDII;

3. EXPLANATION OF MESSAGE

No Variables.

4. SYSTEM RESPONSE

NA = No acknowledgement. Request has not been acknowledged. It is probable that the request has been lost.

PF = Printout follows. Request has been accepted and is followed by the OP:MDII output message identifying the results of the request.

5. REFERENCES

Output Message(s):

OP:MDII

Input Appendix(es):

APP:RANGES

Output Appendix(es):

APP:MDII

Other Manual(s):

235-070-100 Administration and Engineering Guidelines
OP:MEASIC

Software Release: 5E14 and later
Command Group: MEAS
Application: 5
Type: Input

1. PURPOSE

Requests the output of the list of measured carriers. There is a system imposed limit of 200 carriers for which measurements are accumulated. The output of this input message is to facilitate the management of the measured carriers.

2. FORMAT

OP:MEASIC;

3. EXPLANATION OF MESSAGE

No variables.

4. SYSTEM RESPONSE

PF = Printing of the measured carrier list will follow.

5. REFERENCES

Input Message(s):

ALW:TRFC30
INH:TRFC30
OP:M5
OP:MEASTAT
OP:ST-TRFC30
OP:PLNT24
OP:PLNTMO

Output Message(s):

OP:MEASIC
OP:MEASTAT-CLCT
OP:MEASTAT-PRNT
OP:ST-TRFC30

Input Appendix(es):

APP:TRFC-SECTION

Output Appendix(es):

APP:TRFC-SECTION
Other Manual(s):
235-070-100  Administration and Engineering Guidelines
OP:MEASTAT

Software Release: 5E14 and later
Command Group: MEAS
Application: 5
Type: Input

1. PURPOSE
Requests either the collection (CLCT) or the print (PRINT) status of the division of revenue hourly report (DRHR), plant hour (PLNTHR), traffic (TRFC15), and all sections of the traffic (TRFC30) reports.

2. FORMAT
OP:MEASTAT,{CLCT[,SECT=a,START=b]|PRINT};

3. EXPLANATION OF MESSAGE

a = Name of the section to be printed. Refer to the APP:TRFC-SECTION appendix in the Appendixes section of the Input Messages manual for section names.

b = Starting component number to print from.

4. SYSTEM RESPONSE

NG = No good. Valid value(s):
- DATA NOT AVAILABLE AT THIS TIME = Report is being generated and therefore manual requests are locked out, or report has not been generated since an initialization.
- DATA NOT COLLECTED = Data for this section was not collected.
- NOT ALLOWED = Starting component number is higher than maximum available component number for this section.

PF = Printout follows. Followed by either OP:MEASTAT-CLCT or OP:MEASTAT-PRNT output message.

5. REFERENCES

Input Message(s):

- ALW:DRHR
- ALW:PLNTHR
- ALW:TRFC15
- ALW:TRFC30
- INH:DRHR
- INH:PLNTHR
- INH:TRFC15
- INH:TRFC30

Output Message(s):
Other Manual(s):

235-070-100  Administration and Engineering Guidelines
OP:MEMERRS

Software Release: 5E14 and later
Command Group: MAINT
Application: 5,3B
Type: Input

1. PURPOSE

Requests that an interpreted version of the selected MEMLOG entries be reported. The MEMLOG file entries with
the specified date(s) will be output in a tabulated format.

2. FORMAT

OP:MEMERRS,DATE=a[&&b];

3. EXPLANATION OF MESSAGE

a = Starting date in the form {yy|mmyy|mmddyy} where yy is year number, mm is month number, and
dd is day number. For example 0582 = May 1982, 82 = 1982, or 052782 = May 27, 1982.

b = Ending date in the form {yy|mmyy|mmddyy}. If there is no date given for the ending date, only
those entries with the starting date will be output.

4. SYSTEM RESPONSE

NG = No good. Interpreted version of MEMLOG entries are not available on the 3B21D hardware
platform.

PF = Printout follows. Followed by the OP:MEMERRS output message.

RL = Retry later. Unable to open output file.

5. REFERENCES

Output Message(s):

OP:MEMERRS
REPT:CU

Other Manual(s):
235-105-210 Routine Operations and Maintenance
OP:MEMSIZE

Software Release: 5E14 and later
Command Group: MAINT
Application: 5
Type: Input

1. PURPOSE
Requests a memory forecast report on the amount of processor memory required to retrofit to a subsequent software release.

2. FORMAT

OP:MEMSIZE, TORELEASE=a

3. EXPLANATION OF MESSAGE

a = Release to which the office will retrofit ("5E81", "5E91" etc.).

4. SYSTEM RESPONSE

PF = Printout follows. Followed by the OP:MEMSIZE output message. Processing may take up to 10 minutes.

RL = Retry later. Request was denied, possible reason is because a memory forecasting job is already running.

5. REFERENCES

Input Message(s):
STP:MEMSIZE

Output Message(s):
OP:MEMSIZE

Other Manual(s):
235-070-100 Switch Administration and Engineering Guidelines
235-105-248 Software Release Retrofit
235-118-251 Recent Change Procedures
235-118-25x Recent Change Reference
235-600-400 Audits Manual
**OP:MGDSC**

*Software Release:* 5E14 and later  
*Command Group:* N/A  
*Application:* 5  
*Type:* Input

1. **PURPOSE**

Requests total number of messages that have been discarded (MGDSC) due to brevity control and/or message queue overflow from administrative module (AM) operational kernel process, communication module processor (CMP), or a switching module (SM). A message class name or 'ALL', for all message classes, must be specified.

2. **FORMAT**

```
OP:MGDSC,{AM|CMP=a|SM=b},MSGCLS={c|ALL};
```

3. **EXPLANATION OF MESSAGE**

- **a** = CMP number.  
- **b** = SM number.  
- **c** = Valid message class name.

4. **SYSTEM RESPONSE**

- **NG** = No good. May also include:  
  - **SM IS NOT AVAILABLE** = The request cannot be executed now due to the requested SM is either unavailable or not equipped.  
  - **CMP IS NOT AVAILABLE** = The request cannot be executed now due to the requested CMP is either unavailable or not equipped.

- **PF** = Printout follows. The OP:MGDSC output message follows providing information of the request.

5. **REFERENCES**

**Input Message(s):**

- CLR:MGDSC  
- OP:LPS

**Output Message(s):**

- OP:MGDSC  
- OP:LPS
OP:MHD-CFG

Software Release: 5E14 and later
Command Group: AM
Application: 5
Type: Input

1. PURPOSE

Requests the current configuration of the moving head disks (MHDs) and the status of the automatic MHD configuration (CFG) feature.

2. FORMAT

OP:MHD:CFG;

3. EXPLANATION OF MESSAGE

No variables.

4. SYSTEM RESPONSE

PF = Printout follows. Followed by the OP:MHD output message.

5. REFERENCES

Input Message(s):

   ALW:AUTOCFG  
   INH:AUTOCFG  
   SW:MHD

Output Message(s):

   OP:MHD  
   REPT:MHD-CONFIG

Other Manual(s):

Where (x) is the release-specific version of the specified manual.

235-600-30x ECD/SG Data Base
235-105-210 Routine Operations and Maintenance
OP:MHD-INFO

Software Release: 5E14 and later
Command Group: AM
Application: 5,3B
Type: Input

1. PURPOSE

Requests information regarding the specified moving head disk (MHD). Includes the following information.
- Unit name and number of disk file controller (DFC).
- Unit name and number of the SCSI bus (SBUS) on which the specified MHD is connected.
- Device ID.
- Physical port.
- Major status.
- Equipage.
- Number of tracks.
- Validity of the volume table of contents (VTOC).
- Unit reserved.
- Usability.
- Unit essential.
- Unit’s mate.

2. FORMAT

OP:MHD=a:INFO;

3. EXPLANATION OF MESSAGE

a = MHD member number.

4. SYSTEM RESPONSE

PF = Printout follows. Followed by the OP:MHD-INFO output message.

5. REFERENCES

Input Message(s):

OP:DFC-INFO
OP:MHD-INFO

Output Message(s):

OP:MHD-INFO
OP:MON-CTL

Software Release: 5E14 and later
Command Group: SFTUTIL
Application: 5
Type: Input

1. PURPOSE

Requests that the control information of the monitor is output to the receive-only printer (ROP) or a file.

2. FORMAT

OP:MON,CTL, {AM|SM=a |CMP=b-c}, WTD, {ROP |FN="d"};

3. EXPLANATION OF MESSAGE

Note: Refer to the Acronym section of the Input Messages manual for the full expansion of acronyms shown in the format.

WTD = "What to do" or "What to dump" keyword.

a = Switching module (SM) number.

b = Message switch side (0 or 1).

c = Communications module processor (CMP) number.

d = Pathname of UNIX® RTR operating system file name (FN). Quotation marks are required.

4. SYSTEM RESPONSE

NG = No good. Error in format.

PF = Printout follows. Followed by the OP:MON-CTL output message.

RL = Retry later. System resource shortage.

5. REFERENCES

Input Message(s):

OP:MON-DSP
OP:MON-PID

Output Message(s):

OP:MON-CTL
OP:MON-DSP
OP:MON-PID
**OP:MON-DSP-A**

**Software Release:** 5E14 only  
**Command Group:** SFTUTIL  
**Application:** 5  
**Type:** Input

1. **PURPOSE**

Requests that the contents of the dispatch array area of the monitor buffer or the contents of the entire monitor buffer be output to the receive-only printer (ROP) or a file.

The OP:MON-DSP message is used to dump data from the monitor buffer to the ROP or a file. If the specified option is dump first portion (DPF), dump range (DPR), or dump last portion (DPL), then the data is taken from the dispatch array area of the monitor buffer (format 1). If the option is dump all (DPA) then the entire monitor buffer is dumped into the specified file name (format 2).

Note: Excessive ROP may be generated by the response of this message.

2. **FORMAT**

[1] \[\text{OP:MON,DSP,\{AM|SM=a\mid CMP=b-c\},\{DPF=d\mid DPR=e-f\mid DPL=g\},\{ROP|FN="h"\};}\]

[2] \[\text{OP:MON,DSP,\{AM|SM=a\mid CMP=b-c\},DPA,FN="h";}\]

3. **EXPLANATION OF MESSAGE**

Note: Refer to the Acronym section of the Input Messages manual for the full expansion of acronyms shown in the format.

- **DSP** = Dispatch area of monitor buffer.
- **a** = Switching module (SM) number.
- **b** = Message switch side (0 or 1).
- **c** = Communications module processor (CMP) number.
- **d** = Number of words to be dumped from the beginning of the dispatch area of the monitor buffer.
- **e** = Start word index for dumping a range of words from the dispatch area of the monitor buffer.
- **f** = End word index for dumping a range of words from the dispatch area of the monitor buffer.
- **g** = Number of words to be dumped from the end of the dispatch area of the monitor buffer.
- **h** = Full pathname to *UNIX®* RTR operating system output file.

4. **SYSTEM RESPONSE**

- **NG** = No good. Error in format.
- **PF** = Printout follows. Followed by the OP:MON-DSP output message.
RL = Retry later. System resource shortage.

5. REFERENCES

Input Message(s):

OP: MON-CTL
OP: MON-PID

Output Message(s):

OP: MON-CTL
OP: MON-DSP
OP: MON-PID
OP:MON-DSP-B

Software Release: 5E15 and later
Command Group: SFTUTIL
Application: 5
Type: Input

1. PURPOSE

Requests that the contents of the dispatch array area of the monitor buffer or the contents of the entire monitor buffer be output to the read-only printer (ROP) or a file.

The OP:MON-DSP message is used to dump data from the monitor buffer to the ROP or a file. If the specified option is dump first portion (DPF), dump range (DPR), dump last portion (DPL), or dump used portion (DPU), then the data is taken from the dispatch array area of the monitor buffer (format 1). If the option is dump all (DPA) then the entire monitor buffer is dumped into the specified file name (format 2).

Note: Excessive ROP may be generated by the response of this message.

2. FORMAT

[1] OP:MON,DSP,{AM\textbar SM=a \textbar CMP=b-c},{DPF=d \textbar DPR=e-f \textbar DPL=g \textbar DPU},{ROP \textbar FN="h"};

[2] OP:MON,DSP,{AM\textbar SM=a \textbar CMP=b-c},DPA,FN="h";

3. EXPLANATION OF MESSAGE

Note: Refer to the Acronym section of the Input Messages manual for the full expansion of acronyms shown in the format.

DSP = Dispatch area of monitor buffer.
a = Switching module (SM) number.
b = Message switch side (0 or 1).
c = Communications module processor (CMP) number.
d = Number of words to be dumped from the beginning of the dispatch area of the monitor buffer.
e = Start word index for dumping a range of words from the dispatch area of the monitor buffer.
f = End word index for dumping a range of words from the dispatch area of the monitor buffer.
g = Number of words to be dumped from the end of the dispatch area of the monitor buffer.
h = Full pathname to UNIX® RTR operating system output file.

4. SYSTEM RESPONSE

NG = No good. Error in format.
PF = Printout follows. Followed by the OP:MON-DSP output message.
RL = Retry later. System resource shortage.
5. REFERENCES

Input Message(s):

OP: MON-CTL
OP: MON-PID

Output Message(s):

OP: MON-CTL
OP: MON-DSP
OP: MON-PID
OP:MON-PID

Software Release: 5E14 and later
Command Group: SFTUTIL
Application: 5
Type: Input

1. PURPOSE

Requests that the count/time data on a specific program ID or all program IDs, or output count/time data on the
operating system be output to either the receive-only printer (ROP) or a file.

2. FORMAT

OP:MON,PID,{AM|SM=a|CMP=b-c},{PRS|PRT} [=d],{ROP|FN=e};

3. EXPLANATION OF MESSAGE

Note: Refer to the Acronym section of the Input Messages manual for the full expansion of acronyms shown in the format.

ALL = All program IDs or operating system data (default).
PRS = Counts of process real time usage.
PRT = Counts of system real time usage.
a = Switching module (SM) number.
b = Message switch side (0 or 1).
c = Communications module processor (CMP) number.
d = Specific program ID(0-259 OKP -- 0-649 SM -- 0-149 CMP)
e = Filename (FN) that data is dumped into.

4. SYSTEM RESPONSE

NG = No good. Error in format.
PF = Printout follows. Followed by OP:MON-PID-AM, OP:MON-PID-CMP, or the OP:MON-PID-SM
output message depending upon input options.
RL = Retry later. System resource shortage.

5. REFERENCES

Input Message(s):

OP:MON-CTL
OP:MON-DSP
Output Message(s):

OP: MON-CTL
OP: MON-DSP
OP: MON-PID-AM
OP: MON-PID-CMP
OP: MON-PID-SM
OP:MSUSP
Software Release: 5E14 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE
Requests the output of the status of the scan points (SP) on a metallic service unit (MSU) scan board.

2. FORMAT
OP:MSUSP=a-b-c-d;

3. EXPLANATION OF MESSAGE

a = Switching module number.
b = MSU number.
c = Service group number.
d = Scan board number.

4. SYSTEM RESPONSE

NG = No good. The message form is valid, but the request conflicts with current status.
PF = Printout follows. Followed by the OP:MSUSP output message.
RL = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES
Output Message(s):

OP : MSUSP

MCC Display Page(s):

(MSU SERVICE GROUP)
**OP: MT-INFO**

**Software Release:** 5E14 and later  
**Command Group:** AM  
**Application:** 3B  
**Type:** Input

1. **PURPOSE**

Requests the following information regarding the specified small computer system interface (SCSI) magnetic tape (MT) device:
- DFC member number and major status.
- DFC microcode (firmware/pumpcode) version.
- SCSI bus (SBUS) member number, device ID, and major status.
- Unit name and member number.
- Device type.
- Device ID.
- Major status.
- Unit reserved.
- Device firmware revision level.

2. **FORMAT**

   OP:MT=a:INFO;

3. **EXPLANATION OF MESSAGE**

   a = MT member number (0-255).

4. **SYSTEM RESPONSE**

   PF = Printout follows. Followed by the OP:MT-INFO output message.

5. **REFERENCES**

   **Input Message(s):**
   
   OP:DFC-INFO

   **Output Message(s):**
   
   OP:MT-INFO
51. OP:N
OP:NAILUP-A
Software Release: 5E14 - 5E16(1)
Command Group: SM
Application: 5
Type: Input

1. PURPOSE
Requests a display of all specified nail-up connections nailed up using RC/V View 7.11 (NAIL-UP AND HAIRPIN SPECIFICATION) for a given SM, unit, facility, or equipment number.

Format 1 requests that nail-up connections on a specific unit, facility, or equipment number be displayed.

Format 2 requests that the number of nail-up connections on a switching module (SM) be displayed.

2. FORMAT

[1] OP:NAILUP,a;


3. EXPLANATION OF MESSAGE

NOTE: Refer to the Acronym section of the Input Messages manual for the full expansion of acronyms shown in the format.

QUAN = Display the number of nailup ports only.

a = Unit, facility or equipment number. Valid value(s):
DEN=b-c-d-j;
DFI=b-c-d;
DS1=b-y-z-a1-b1-v-w;
DS1SFAC=b-r-s-t-u-v-w;
IFAC=b-n-o;
ILEN=b-n-m-q;
INEN=b-r-m-p;
NEN=b-r-s-t-u-v-w-x;
SDFI=b-e-f;
SLEN=b-e-l-p;
TEN=b-g-h-i-k;
TUCHBD=b-g-h-i;

b = SM number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

c = Digital line and trunk unit (DLTU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

d = DFI number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
e = DCLU number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

f = SDFI number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

g = Trunk unit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

h = Service group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

i = Channel board number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

j = Channel number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

k = Circuit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

l = Remote terminal (RT) number for the DCLU. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

m = RT number or IDCU digital signal level 1 (DS1) serving PUB43801 number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

n = IDCU number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

o = IDCU facility number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

p = RT line number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

q = RT line number or PUB43801 channel number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

r = DNU-S number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

s = Data group (DG) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

t = SONET termination equipment (STE) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

u = Synchronous transport signal (STS) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

v = Virtual tributary group (VTG) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

w = Virtual tributary member (VTM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
x = Digital signal level 0 (DS0) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

NG = No good. Valid value(s):
- SM DOES NOT EXIST = The message was not accepted because the SM does not exist.
- SM UNEQUIPPED = The message was not accepted because the SM is unequipped.
- UNIT DOES NOT EXIST = The message was not accepted because the trunk unit does not exist or the target equipment is not equipped.

PF = Printout follows. Followed by the OP:NAILUP output message.

5. REFERENCES

Output Message(s):

OP:NAILUP

Input Appendix(es):

APP:RANGES

Other Manual(s):
235-190-115 Local and Toll System Features

RC/V View(s):
7.11 NAIL-UP AND HAIRPIN SPECIFICATION
OP:NAILUP-B
Software Release: 5E16(2) and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Requests a display of all specified nail-up connections nailed up using RC/V View 7.11 (NAIL-UP AND HAIRPIN SPECIFICATION) for a given SM, unit, facility, or equipment number.

Format 1 requests that nail-up connections on a specific unit, facility, or equipment number be displayed. Format 2 requests that the number of nail-up connections on a switching module (SM) be displayed.

2. FORMAT

[1] OP:NAILUP,a;


3. EXPLANATION OF MESSAGE

NOTE: Refer to the Acronym section of the Input Messages manual for the full expansion of acronyms shown in the format.

QUAN = Display the number of nailup ports only.

a = Unit, facility or equipment number. Valid value(s):
   
   DEN=b-c-d-j;
   DFI=b-c-d;
   DS1=b-y-z-a1-b1-v-w;
   DS1SFAC=b-r-s-t-u-v-w;
   IFAC=b-n-o;
   ILEN=b-n-m-q;
   INEN=b-r-m-p;
   NEN=b-r-s-t-u-v-w-x;
   SDFI=b-e-f;
   OIUE=b-y-z-a1-b1-v-w-x;
   SLEN=b-e-l-p;
   TEN=b-g-h-i-k;
   TUCHBD=b-g-h-i;

b = SM number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

c = Digital line and trunk unit (DLTU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

d = DFI number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
- DCLU number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
- SDFI number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
- Trunk unit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
- Service group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
- Channel board number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
- Channel number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
- Circuit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
- Remote terminal (RT) number for the DCLU. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
- RT number or IDCU digital signal level 1 (DS1) serving PUB43801 number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
- IDCU number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
- IDCU facility number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
- RT line number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
- RT line number or PUB43801 channel number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
- DNU-S number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
- Data group (DG) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
- SONET termination equipment (STE) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
- Synchronous transport signal (STS) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
- Virtual tributary group (VTG) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
- Virtual tributary member (VTM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
x = Digital signal level 0 (DS0) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

y = Optical interface unit (OIU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

z = Protection group (PG) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

a¹ = Optical carrier level 3 (OC3) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

b¹ = Synchronous transport signal level 1 (STS1) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

NG = No good. Valid value(s):
- SM DOES NOT EXIST = The message was not accepted because the SM does not exist.
- SM UNEQUIPPED = The message was not accepted because the SM is unequipped.
- UNIT DOES NOT EXIST = The message was not accepted because the trunk unit does not exist or the target equipment is not equipped.

PF = Printout follows. Followed by the OP:NAILUP output message.

5. REFERENCES

Output Message(s):
OP:NAILUP

Input Appendix(es):
APP:RANGES

Other Manual(s):
235-190-115 Local and Toll System Features

RC/V View(s):
7.11 NAIL-UP AND HAIRPIN SPECIFICATION
1. PURPOSE

Requests the output of the active user datagram protocol (UDP) ports for a specific optical interface unit (OIU) optical facility interface (OFI) protection group (PG).

WARNING: This message could potentially generate a lot of output. Because of this only one instance of the command is allowed to run per SM at a time.

2. FORMAT

OP:NETSTAT,OFI=a-b-c-d

3. EXPLANATION OF MESSAGE

a = Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

b = OIU number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

c = PG number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

d = Side number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

PF = Printout follows. The request has been accepted. Followed by the OP NETSTAT output message.

RL = Retry later. The request has been denied, probably due to system load.

5. REFERENCES

Output Message(s):

OP:NETSTAT

Input Appendix(es):

APP: RANGES
OP:NMNODES
Software Release: 5E14 and later
Command Group: NMOC
Application: 5
Type: Input

1. PURPOSE

Requests a list of all nodes on the five-minute network management node schedule (NMNODES).

2. FORMAT

OP:NMNODES;

3. EXPLANATION OF MESSAGE

No variables.

4. SYSTEM RESPONSE

PF = Printout follows. Followed by the OP:NMNODES output message.

RL = Retry later. May also include:
- RESOURCE SHORTAGE = The request could not be accepted because the necessary resources are not available.

5. REFERENCES

Input Message(s):

ASGN:NMNODES
CLR:NMNODES

Output Message(s):

OP:NMNODES

Other Manual(s):
235-070-100 Administration and Engineering Guidelines
235-190-115 Local and Toll System Features

MCC Display Page(s):
130 (NM EXCEPTION)
OP:NMOUT
Software Release: 5E14 and later
Command Group: NMOC
Application: 5
Type: Input

1. PURPOSE
Requests a list of the current set of network management (NM) output message inhibits on the engineering and administrative data acquisition system (EADAS) stimulated output messages.

2. FORMAT
OP:NMOUT;

3. EXPLANATION OF MESSAGE
No variables.

4. SYSTEM RESPONSE
PF = Printout follows. Followed by the OP:NMOUT output message.

5. REFERENCES
Input Message(s):
    ALW:NMOUT
    INH:NMOUT

Output Message(s):
    OP:NMOUT

Other Manual(s):
    235-190-115  Local and Toll System Features

MCC Display Page(s):
    130 (NM EXCEPTION)
    109 (OVERLOAD)
OP:NMPGE

Software Release: 5E14 and later
Command Group: NMOC
Application: 5
Type: Input

1. PURPOSE
Requests a list of the current values on the Master Control Center (MCC) network management (NM) exception page (NMPGE).

2. FORMAT

OP:NMPGE;

3. EXPLANATION OF MESSAGE
No variables.

4. SYSTEM RESPONSE

\[ PF \] = Printout follows. Followed by the OP:NMPGE output message.

5. REFERENCES
Input Message(s):

OP: CGAP
OP: DOC
OP: SILC
OP: TGC
OP: TR
OP: SSTR

Output Message(s):

OP: NMPGE

Other Manual(s):
235-190-119  Local and Toll System Features

MCC Display Page(s):

130 (NM EXCEPTION)
109 (OVERLOAD)
OP:NMSCH

Software Release: 5E14 and later
Command Group: NMOC
Application: 5
Type: Input

1. PURPOSE

Requests a list of all trunk groups on the network management (NM) trunk group schedule. The NM trunk group schedule is a list of trunk groups of interest to network managers.

Note: For offices that have a direct link to the Remote Network Management Center, the trunk group schedule can be as large as 2000. This request may cause a large amount of data to be printed on the receive-only printer (ROP). The printing of this report can be stopped with the use of the STP:NMOP input message.

2. FORMAT

OP:NMSCH;

3. EXPLANATION OF MESSAGE

No variables.

4. SYSTEM RESPONSE

PF = Printout follows. Followed by the OP:NMSCH output message.

RL = Retry later. May also include:
- CONFLICTING REQUEST = A similar request is being processed utilizing necessary resources.
- RESOURCE SHORTAGE = The necessary resources are not available.

5. REFERENCES

Input Message(s):

ASGN:NMSCH
CLR:NMSCH
STP:NMOP

Output Message(s):

OP:NMSCH

Other Manual(s):
235-190-101 Business and Residence Modular Features

MCC Display Page(s):
130 (NM EXCEPTION)
109 (OVERLOAD)
OP:NMTHD
Software Release: 5E14 and later
Command Group: NMOC
Application: 5
Type: Input

1. PURPOSE

Requests a list of all network management (NM) threshold (NMTHD) values for maintenance usage, connections per circuit per hour (CCH), and attempts per circuit per hour (ACH) for trunk group indicators in the TRUNK block. This message is valid only for defense switched network (DSN) switches.

2. FORMAT

OP:NMTHD;

3. EXPLANATION OF MESSAGE


4. SYSTEM RESPONSE

PF = Printout follows. Followed by the OP:NMTHD output message.

5. REFERENCES

Input Message(s):
SET:NMTHD

Output Message(s):
OP:NMTHD

Other Manual(s):
235-900-113 Product Specification

MCC Display Page(s):
109 (DSN NM EXCEPTION)
130 (OVERLOAD)
OP:NPMEM

Software Release: 5E14 and later
Command Group: CCS
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Requests a report of the specified node processor (NP) or attached processor (AP) memory or port locations, and sends the output to a file or to the ROP or both.

WARNING: Due to the potential destructive nature of reading certain input/output (I/O) ports, do not read I/O ports on an ACTIVE node. The use of OP:NPMEM should be avoided when the NP under test is in the isolated segment, and other maintenance activity is occurring in the isolated segment. This interaction of OP:NPMEM with maintenance could have adverse affects on maintenance and the active segment of the common network interface (CNI) ring.

2. FORMAT

OP:NPMEM=[ROP | FILE | FILEROP | RAW3B | RAW80] {,RPCNa=0 | ,LNb=c} {,MADDR | :BPORT | :APADDR}=d {,NBYTES | :NPORTS}=e [:{WTIME=f | UCL | WTIME=f,UCL}];

3. EXPLANATION OF MESSAGE

ROP

= Print the output at the read only printer. This is the default.

FILE

= Place the output into a file.

NOTE: When this argument is specified, the input message doesn't echo on the read only printer.

FILEROP

= Print the output at the read only printer and place the output into a file.

RAW3B

= Place the output into a file.

NOTE: When this argument is specified, the content of the file will have both binary and ASCII data with the byte ordering for the binary portion being like that of a M68000 family of processors.

RAW80

= Place the output into a file.

NOTE: When this argument is specified, the content of the file will have both binary and ASCII data with the byte ordering for the binary portion being like that of an I80 family of processors.

RPCN

= Ring Peripheral Controller Node request. When FILE or FILEROP is the argument to the NPMEM keyword, the file produced will be named with the D.RPCNa_b convention.
RAW3B or RAW80 is the argument to the NPMEM keyword, the file produced will be named with the DR.RPCNa_b convention.

LN = Link node request. When FILE or FILEROP is the argument to the NPMEM keyword, the file produced will be named with the D.LNa_b convention. When RAW3B or RAW80 is the argument to the NPMEM keyword, the file produced will be named with the DR.LNa_b convention.

MADDR = Read NP memory address.

BPORT = Read NP byte port number.

APADDR = Read AP memory address.

NBYTES = Dump memory.

NPORTS = Dump consecutive ports.

WTIME = Waiting time allowed for this command.

UCL = Unconditional request.

WARNING: When this option is specified, there is a risk of causing RING TRANSPORT ERRORS. This option is intended for use only in emergency situations where a node is marked faulty but believed to be otherwise.

a = The ring node (RN) group number for an RPCN. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

b = The ring node (RN) group number for an LN. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

c = The RN member number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

d = The start address for memory or port to be dumped. For a node processor memory or port request, the start address is specified as a twenty bit address: 16 bits virtual address (bits 0-15) plus a 4 bit segment (bits 16-19) for memory dumps, and a don't care segment for port dumps. For attached processor memory dumps, the start address is specified as a 32-bit physical address when the node is not in the ACTIVE state, and a 32-bit virtual address for ACTIVE nodes.

e = Number of consecutive bytes to dump. The total number of bytes that can be obtained is 63488 for attached processors that are not active. A node in an isolated segment of the ring can only dump a maximum of 432 bytes for the ROP option. If these restrictions are satisfied, a request can obtain from 1 to 1024 bytes for ROP and from 1 to the total memory size available in the node for FILE, FILEROP, RAW3B, or RAW80.

f = Wait time limit for the duration of the data dump specified in minutes. Range is 1-60. When specified wait time expires, this command will be terminated. The default value for the wait time is 3 minutes.

All desired data should be retrieved from the node processor before attempting to read memory back from an inactive attached processor since the read of the attached processor memory can destroy memory addresses X’80000 to X’90000 in the NP.
The memory or port specified is uploaded and the OP:NPMEM output message is generated. The data read will be segmented in 464 bytes or less. Each segment read will be blocked in 464 bytes or less for ROP dumps. Each block will be read in one time interval providing a static view (snapshot) of the block of memory.

Directory "/etc/log/" will be used as the default directory for file placement when the FILE, FILEROP, RAW3B or RAW80 argument is used. Users can direct the output file to any location by creating the file "npmempath" in directory "/no5text/ims/npfile/". The "npmempath" file can then contain the path to the directory where the file is to be placed.

4. SYSTEM RESPONSE

PF = Printout follows. Followed by the OP:NPMEM output message.

5. REFERENCES

Output Message(s):

OP : NPMEM

MCC Display Page(s):

1520 (RING NODE STATUS PAGE)
52. OP:O
OP:ODD-AM-SM

Software Release: 5E14 and later
Command Group: ODD
Application: 5
Type: Input

1. PURPOSE

Requests a report of the office-dependent data (ODD) availability in the administrative module (AM), switching module(s) (SMs), and communication module processor CMP(s). Depending on the information required, one processor or any combination of the three may be requested.

This input message can be used to manually clear or set the ODDWARN MCC processor status lamp(s) on the 116, 1800,x, 1850, and/or 1851 MCC page(s) depending on the current amount of ODD usage.

2. FORMAT

[1] OP:ODD, {AM|SM=a[&&b]|CMP=a[&&b]|AM[,CMP=a[&&b][,SM=a[&&b]]]};

3. EXPLANATION OF MESSAGE

AM = Requests the ODD availability report in the administrative module.
   a = SM or CMP number or the lower limit of the range whose availability report is requested.
   b = Upper limit of the range of SM or CMP number specified whose availability report is requested.

4. SYSTEM RESPONSE

NG = No good. The input request is not valid.
PF = Printout follows. Followed by the OP:ODD output message.

5. REFERENCES

Input Message(s):
   OP:ODDWARN

Output Message(s):
   OP:ODD
   OP:ODDWARN

Other Manual(s):
235-105-220 Corrective Maintenance
OP:ODDWARN

Software Release: 5E14 and later
Command Group: ODD
Application: 5
Type: Input

1. PURPOSE

Requests a report of office dependent-data (ODD) warning information in the specified processors. Two ODD warning conditions are reported as either normal or abnormal: the status of used ODD and the status of generated key (GK) or hashed relations in overflow after automatic reorganization. A hashed relation is one whose access method is DBACC_HASH. A GK relation is one whose access method is DBACC_GK.

Depending on the information required, one processor or any combination of the administration module (AM), communication module processors (CMPs), or switching modules (SMs) may be requested. At least one processor must be specified. ODD warning information will appear for every operational processor specified.

2. FORMAT

OP:ODDWARN{{[,SM=a[&b]][,CMP=c-d][,AM]}};

3. EXPLANATION OF MESSAGE

Note: Refer to the Acronym section of the Input Messages manual for the full expansion of acronyms shown in the format.

a = SM number or the lower limit of a range of SM numbers.
b = Upper limit of a range of SM numbers.
c = Message switch side of the communication module (CM) with the desired CMP. (0,1)
d = CMP number or peripheral control number.

4. SYSTEM RESPONSE

NG = No good. The request has been denied. May also include:
- INVALID CMP PROCESSOR SPECIFIED = The requested CMP processor was not operational.
- NO VALID PROCESSOR SPECIFIED = No requested processor was operational. At least one requested processor must be operational.

PF = Printout follows. The request was accepted because at least one operational processor was specified. Followed by the OP:ODDWARN output message for each operational processor requested.

5. REFERENCES

Output Message(s):

OP:ODDWARN
Other Manual(s):
235-105-110  System Maintenance Requirements and Tools
235-105-210  Routine Operations and Maintenance
235-105-220  Corrective Maintenance
OP:OFFNORM-CM

Software Release: 5E14 and later
Command Group: CM
Application: 5
Type: Input

1. PURPOSE

Requests a list of all off-normal circuits in communication modules (CM). Circuits that are in forced active states or are in service but have hardware checks (HDWCHK) inhibited are considered off-normal.

2. FORMAT

OP:OFFNORM,CM;

3. EXPLANATION OF MESSAGE

No variables.

4. SYSTEM RESPONSE

NG = No good. The request has been denied. The message syntax is valid, but the request could not be processed. Refer to the APP:CM-IM-REASON appendix in the Appendixes section of the Input Messages manual for a list of possible reasons for denying the request.

PF = Printout follows. Followed by the OP:OFFNORM output message.

5. REFERENCES

Output Message(s):

OP:OFFNORM

Input Appendix(es):

APP:CM-IM-REASON

Other Manual(s):

235-105-220 Corrective Maintenance
235-105-250 System Recovery Procedures
OP:OFFNORM-IS

Software Release: 5E14 and later
Command Group: TRKLN
Application: 5
Type: Input

1. PURPOSE

Outputs a report of off-normal inter-SM (switching module) nailups (ISMNAILs) used for packet transport between SMs. "Off-normal" is to be equated with any nailup, which is not IS (in-service), and for which maintenance personnel action could affect the restoration of that ISMNAIIL. The request allows data to be provided for a single SM or a contiguous range of SMs.

2. FORMAT

OP:OFFNORM,ISMNAIL,SM=a[&b];

3. EXPLANATION OF MESSAGE

a = SM number or the lower limit of a range of SM numbers.

b = Upper limit of a range of SM numbers.

4. SYSTEM RESPONSE

PF = Printout follows. The request has been accepted and is followed by the OP:OFFNORM-IS output message.

RL = Retry later. The request cannot be executed immediately because the automatic task administrator (ATA) cannot currently schedule a new task, or an OP:LIST-ISMNAIL or another OP:OFFNORM-IS request is in progress (no more than one task of this type may be executed at any given time); retry later, when system load is reduced.

5. REFERENCES

Input Message(s):

STP:ISMNAIL
OP:LIST-ISMNAIL

Output Message(s):

OP:OFFNORM-IS
1. PURPOSE

Requests a list of all off-normal primary rate interface (PRI) integrated services digital network (ISDN) D-channels. Only the status of D-channels are listed. B-channels are not included in this report. An off-normal condition is in effect when a D-channel for a PRI group is out-of-service (OOS).

2. FORMAT

OP:OFFNORM, PRIGRP;

3. EXPLANATION OF MESSAGE

No variables.

4. SYSTEM RESPONSE

PF = Printout follows. The request has been accepted and is followed by the OP:OFFNORM-PRI output message.

RL = Retry later. May also include:
    - FAILED TO CREATE PROCESS
    - TOO MANY PROCESSES ACTIVE

5. REFERENCES

Output Message(s):

OP:OFFNORM-PRI

Other Manual(s):
235-105-110 System Maintenance Requirements and Tools

MCC Display Page(s):

107 (CIRCUIT LIMIT)
OP:OFFNORM-QPHN

Software Release: 5E15 and later
Command Group: CCS
Application: 5
Type: Input

1. PURPOSE

Requests status for all offnormal quad-link packet switch protocol handler links (QPHLNKs) on a host global switching module (HOST GSM). This type of request is useful in determining the overall "health" of QPH operation on a HOST GSM, as part of corrective maintenance activities (or periodic offnormal reports).

2. FORMAT

OP:OFFNORM,QPHNET[,GSM=a|ALL];

3. EXPLANATION OF MESSAGE

ALL = Report status of all offnormal QPHLNKs on all GS Ms in the office with QPHs equipped.

a = GSM number. If no SM number is specified and only one CCS GSM exists in the office, that GSM will be defaulted.

4. SYSTEM RESPONSE

PF = The request has been accepted. An OP:OFFNORM,QPHNET output message will follow.
RL - GSM NOT AVAILABLE = This response indicates that the input GSM is not available, because it is isolated or undergoing an initialization. Retry later.
NG - SM UNEQUIPPED = This response indicates that the input GSM is not an equipped SM.
NG - NOT A GSM = This response indicates that the input GSM is not a provisioned GSM.
NG - NO GSM PROVISIONED = No GSM was specified or ALL option was input, and there are no GSMS provisioned in the office.
NG - GSM MUST BE SPECIFIED = No GSM was specified, and there is more than one GSM provisioned in the office.
RL - CURRENTLY IN PROGRESS = Only one OP:OFFNORM,QPHNET,ALL request can be processed at a time. Retry later.

5. REFERENCES

Output Message(s):

OP:OFFNORM,QPHNET

Other Manual(s):
235-200-116 5ESS Switch Signaling Gateway Common Channel Signaling

MCC Display Page(s):

1540 (GSM CMT STATUS)
OP:OFFNORM-SM

Software Release: 5E14 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Requests a list of all off-normal circuits in switching modules (SM).

2. FORMAT

OP:OFFNORM, SM=a[&b] [,NOPRINT];

3. EXPLANATION OF MESSAGE

NOPRINT = No print. This option prevents the printing of the OP:OFFNORM-SM output response for those SMs that have no OFFNORM units. Selecting this option also condenses the OP:OFFNORM-SM report for SMs that have master inhibits applied for the hardware error checks. When this option is selected, the report will simply indicate that the SM has master inhibits applied for the hardware error checks without listing all the off-normal circuits in the SM.

Note: If a large amount of records are requested, then some records may not be printed on the receive-only printer (ROP) due to the finite queuing capability.

a = SM number or lower limit for a range of SM numbers.
b = Upper limit for a range of SM numbers.

4. SYSTEM RESPONSE

NG = No good. The message syntax is valid, but the request conflicts with current system or equipment status. May also include:
- SM DOES NOT EXIST = The message syntax is valid, but the requested SM is not in the system.
- SM UNEQUIPPED = The message syntax is valid, but the requested SM is unequipped. In case of a range request, all SMs are unequipped.

PF = Printout follows. Followed by the OP:OFFNORM-SM output message.

RL = Retry later. The request cannot be executed now. A lack of system resources has resulted in loss of communication to the requested SM.

5. REFERENCES

Output Message(s):

OP:OFFNORM-SM
OP:OFL

Software Release: 5E14 and later
Command Group: AM
Application: 5,3B
Type: Input

1. PURPOSE

Requests a list of all currently off-line administrative module (AM) hardware units. This format provides a list of all off-line units of a particular type.

2. FORMAT

\[ \text{OP:OFL}[:\text{DATA}, \langle a(=b)[,c=d]\rangle]; \]

3. EXPLANATION OF MESSAGE

- \(a\) = Unit name. Refer to the APP:MEM-NUM-UNIT appendix in the Appendixes section of the Input Messages manual for AM unit names.
- \(b\) = Unit number. Refer to the APP:MEM-NUM-UNIT appendix in the Appendixes section of the Input Messages manual.
- \(c\) = Subunit name, if 'a' = CU. Refer to the APP:MEM-NUM-CU appendix in the Appendixes section of the Input Messages manual for AM control unit (CU) subunit names.
- \(d\) = Subunit number. Refer to the APP:MEM-NUM-CU appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

- \(\text{PF}\) = Printout follows. Followed by the OP:OFL output message.
- \(\text{RL}\) = Retry later.
- \(\text{?D}\) = Data field error.

5. REFERENCES

Input Message(s):

- OP:CFGSTAT

Output Message(s):

- OP:CFGSTAT
- OP:OFL

Input Appendix(es):
OP:OFR-CAT

Software Release: 5E14 and later
Command Group: RCV
Application: 5
Type: Input

1. PURPOSE

Requests the printing of all categories or one category of office record forms.

2. FORMAT

OP:OFR:CAT=a[,OPT=b][,FORMAT=c][,DEVICE=d];

3. EXPLANATION OF MESSAGE

a = Category to be printed.

Valid value(s) for the switch:
ADMIN = Administrative forms.
ALL = All categories, all forms.
APPROC = Applications processor forms.
BRCSFD = Business and residential customer services (BRCS) feature definition forms.
CONFIG = Configuration forms.
DARC = Digit analysis, screening, routing and charging forms.
EQUIP = Equipment forms.
LASS = Local area signaling service forms.
LINE = Line forms.
OSPS = Operator Services Position System forms.
PKT = Packet switching forms.
TRUNK = Trunk forms.

Valid value(s) for wireless centrex:
WCTX = Wireless centrex forms. This is the only category valid for Wireless Centrex offices.

b = Printing option. Valid value(s):
DELAY = Delay printing until the time set by the IN:OFR-PARM input message.

c = Format of office record option. Valid value(s):
RAW = Office record output is in RAW format. Each row of output in a "RAW" formatted office record is an instance of the Recent Change view associated with the form type being processed. Each row contains tab separated values associated with the fields defined for the particular Recent Change view. When using this format the output is machine readable and can be post processed more easily than the default formatting of office records. Office records that are to be raw formatted are scheduled in either of the two following ways: OP:OFR:CAT=XXX,FORMAT=RAW OP:OFR:FORM=XXX,FORMAT=RAW

d = Device/file string of up to 9 characters.
Device | Use
--- | ---
"FILE" | OFR.E(reqid) and OFR.O(reqid) are error and output files respectively in the RCLOG partition.
"FIL_FRMID" | (formid).E and (formid).O are error and output files respectively in the RCLOG partition. These files are created in pairs per formid. The term formid has the same meaning as form type. For example, for form type (or formid) 5050, files 5050.E and 5050.O would be created.
"mt00" | High density tape device, IOP 0 rewind after I/O.
"mt04" | High density tape device, IOP 0 do not rewind after I/O.
"mt08" | Low density tape device, IOP 0 rewind after I/O.
"mt0c" | Low density tape device, IOP 0 do not rewind after I/O.
"mt18" | Low density tape device, IOP 1 rewind after I/O.
"mt1c" | Low density tape device, IOP 1 do not rewind after I/O.
"null" | A dummy port used for error checking
"report" | A file in the RCLOG partition (appends)
"ttyR" | Office records printer
"ttyT" | Traffic printer
"ttyU" | Belt line B
"ttyn" | SLC™96
"ttyj" | Supplemental trunk/line work station, first
"ttyk" | Supplemental trunk/line work station, sixth
"ttym" | Supplemental trunk/line work station, first
"ttym" | Supplemental trunk/line work station, second
"ttyo" | Supplemental trunk/line work station, third
"ttyp" | Recent change and verify/Reserved Service Bureau
"ttyq" | Recent change and verify/Network Administration Center
"ttyr" | Automatic line insulation test/Reserved Service Bureau
"ttys" | Magnetic tape controller
"ttyt" | Magnetic tape controller
"ttyu" | Belt line A
"ttyv" | Local recent change and verify
"ttyw" | Remote recent change and verify
"ttyx" | Master Control Center/ Switching Control Center System
"ttyy" | Master Control Center/ Switching Control Center System
"ttyz" | Master Control Center/ Switching Control Center System

Note: FILE option is used primarily by an Operational Support System (OSS) to request office records and store the output in files.

4. SYSTEM RESPONSE

PF = Printout follows. Followed by the OP:OFR-CAT output message.

Note: A request identification number is printed in the OP:OFR-CAT output message. This number is used in the STP:OFR input message to stop the printing of office records.

5. REFERENCES

Input Message(s):

```
ABT:OFR
IN:OFR-PARM
OP:OFR-STATUS
STP:OFR
```

Output Message(s):

```
OP:OFR-CAT
OP:OFR-ERROR
```
Other Manual(s):

Where (x) is the release-specific version of the specified manual.

235-080-100  Translation Guide (TG-5)
235-118-251  Recent Change Procedures
235-118-25x  Recent Change Reference
OP:OFR-FORM-A

Software Release: 5E14 only
Command Group: RCV
Application: 5
Type: Input

1. PURPOSE

Requests printing of an office record form.

2. FORMAT

OP:OFR:FORM=a[,b=c[-d]][,OPT=e][,FORMAT=f][,DEVICE=g];

3. EXPLANATION OF MESSAGE

a = Form type. Refer to variable ‘a’ for the form types that can be requested.

b = Key ID associated with the form type used for optional ranging. Refer to variable ‘d’ for additional Key ID.
Note: A key ID is required for form 56151.
Note: A "*" in the key ID field represents a secondary key. To request the form with this key, the other key ID associated with this form is required to be entered.

c = Optional key ID number, or the lower limit of a range of key ID numbers.

d = Optional key ID number, or the upper limit of a range of key ID numbers. Refer to the APP:KEY-ID appendix in the Appendixes section of the Input Messages manual.

e = Printing option. Valid value(s):
DELAY = Delay printing until the time set by the IN:OFR-PARM input message.

f = Format of office record option. Valid value(s):
RAW = Office record output is in RAW format. Each row of output in a "RAW" formatted office record is an instance of the Recent Change view associated with the form type being processed. Each row contains tab separated values associated with the fields defined for the particular Recent Change view. When using this format the output is machine readable and can be post processed more easily than the default formatting of office records.

Office records that are to be raw formatted are scheduled in either of the two following ways:

OP:OFR:CAT=XXX,FORMAT=RAW
OP:OFR:FORM=XXX,FORMAT=RAW

g = Device/file string of up to 9 characters.

<table>
<thead>
<tr>
<th>Device</th>
<th>Use</th>
</tr>
</thead>
<tbody>
<tr>
<td>&quot;FILE&quot;</td>
<td>OFR.E(reqid) and OFR.O(reqid) are error and output files respectively in the RCLOG partition. Refer to the following note.</td>
</tr>
<tr>
<td>&quot;FIL_FRMID&quot;</td>
<td>(formid).E and (formid).O are error and output files respectively in the RCLOG partition. These files are</td>
</tr>
</tbody>
</table>
created in pairs per formid. The term formid has the same meaning as form type. For example, for form type (or formid) 5050, files 5050.E and 5050.O would be created.

<table>
<thead>
<tr>
<th>Formid</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>&quot;mt00&quot;</td>
<td>High density tape device, IOP 0 rewind after I/O.</td>
</tr>
<tr>
<td>&quot;mt04&quot;</td>
<td>High density tape device, IOP 0 do not rewind after I/O.</td>
</tr>
<tr>
<td>&quot;mt08&quot;</td>
<td>Low density tape device, IOP 0 rewind after I/O.</td>
</tr>
<tr>
<td>&quot;mt0c&quot;</td>
<td>Low density tape device, IOP 0 do not rewind after I/O.</td>
</tr>
<tr>
<td>&quot;mt18&quot;</td>
<td>Low density tape device, IOP 1 rewind after I/O.</td>
</tr>
<tr>
<td>&quot;mt1c&quot;</td>
<td>Low density tape device, IOP 1 do not rewind after I/O.</td>
</tr>
<tr>
<td>&quot;null&quot;</td>
<td>A dummy port used for error checking.</td>
</tr>
<tr>
<td>&quot;report&quot;</td>
<td>A file in the RCLOG partition (appends).</td>
</tr>
<tr>
<td>&quot;mt0c&quot;</td>
<td>&quot;mt0c&quot; High density tape device, IOP 0 do not rewind after I/O.</td>
</tr>
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<td>&quot;mt1c&quot; Low density tape device, IOP 1 do not rewind after I/O.</td>
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<td>&quot;report&quot; A file in the RCLOG partition (appends).</td>
</tr>
<tr>
<td>&quot;ttyC&quot;</td>
<td>STLWS7 DEVICE TYPE=TTY28 (x22) BAUD RATE=4800</td>
</tr>
<tr>
<td>&quot;ttyD&quot;</td>
<td>STLWS8 DEVICE TYPE=TTY29 (x23) BAUD RATE=4800</td>
</tr>
<tr>
<td>&quot;ttyE&quot;</td>
<td>STLWS9 DEVICE TYPE=TTY30 (x24) BAUD RATE=4800</td>
</tr>
<tr>
<td>&quot;ttyF&quot;</td>
<td>STLWS10 DEVICE TYPE=TTY31 (x25) BAUD RATE=4800</td>
</tr>
<tr>
<td>&quot;ttyG&quot;</td>
<td>STLWS11 DEVICE TYPE=TTY32 (x26) BAUD RATE=4800</td>
</tr>
<tr>
<td>&quot;ttyH&quot;</td>
<td>STLWS12 DEVICE TYPE=TTY33 (x27) BAUD RATE=4800</td>
</tr>
<tr>
<td>&quot;ttyI&quot;</td>
<td>STLWS13 DEVICE TYPE=TTY34 (x28) BAUD RATE=4800</td>
</tr>
<tr>
<td>&quot;ttyR&quot;</td>
<td>Office records printer.</td>
</tr>
<tr>
<td>&quot;ttyT&quot;</td>
<td>Traffic printer.</td>
</tr>
<tr>
<td>&quot;ttyU&quot;</td>
<td>Belt line B.</td>
</tr>
<tr>
<td>&quot;ttyV&quot;</td>
<td>Supplemental trunk/line work station, fifth.</td>
</tr>
<tr>
<td>&quot;ttyY&quot;</td>
<td>Supplemental trunk/line work station, sixth.</td>
</tr>
<tr>
<td>&quot;ttyW&quot;</td>
<td>Supplemental trunk/line work station, second.</td>
</tr>
<tr>
<td>&quot;ttyX&quot;</td>
<td>Supplemental trunk/line work station, third.</td>
</tr>
<tr>
<td>&quot;ttyO&quot;</td>
<td>Supplemental trunk/line work station, fourth.</td>
</tr>
<tr>
<td>&quot;ttyP&quot;</td>
<td>Recent change and verify/Reserved Service Bureau.</td>
</tr>
<tr>
<td>&quot;ttyQ&quot;</td>
<td>Recent change and verify/Network Administration Center.</td>
</tr>
<tr>
<td>&quot;ttyR&quot;</td>
<td>Automatic line insulation test/reserved service bureau.</td>
</tr>
<tr>
<td>&quot;ttyS&quot;</td>
<td>Magnetic tape controller.</td>
</tr>
<tr>
<td>&quot;ttyT&quot;</td>
<td>Magnetic tape controller.</td>
</tr>
<tr>
<td>&quot;ttyU&quot;</td>
<td>Belt line A.</td>
</tr>
<tr>
<td>&quot;ttyV&quot;</td>
<td>Local recent change and verify.</td>
</tr>
<tr>
<td>&quot;ttyW&quot;</td>
<td>Remote recent change and verify.</td>
</tr>
<tr>
<td>&quot;ttyX&quot;</td>
<td>Master Control Center/ Switching Control Center System.</td>
</tr>
<tr>
<td>&quot;ttyY&quot;</td>
<td>Master Control Center/ Switching Control Center System.</td>
</tr>
<tr>
<td>&quot;ttyZ&quot;</td>
<td>Master Control Center/ Switching Control Center System.</td>
</tr>
</tbody>
</table>

Note: FILE option is used primarily by an Operational Support System (OSS) to request office records and store the output in files.

### 4. SYSTEM RESPONSE

PF = Printout follows. Followed by the OP:OFR-FORM output message.

Note: A request identification number is printed in the OP:OFR-FORM output message. This number is used in the STP:OFR input message to stop the printing of office records.

### 5. REFERENCES

Input Message(s):

- ABT:OFR
- IN:OFR-PARM
- OP:OFR-STATUS
- STP:OFR
Output Message(s):

OP: OFR-ERROR
OP: OFR-FORM

Input Appendix(es):

APP: KEY-ID

Other Manual(s):

Where (x) is the release-specific version of the specified manual.
235-080-100   Translation Guide (TG-5)
235-118-251   Recent Change Procedures
235-118-25x   Recent Change Reference
OP:OFR-FORM-B

**Software Release:** 5E15 and later  
**Command Group:** RCV  
**Application:** 5  
**Type:** Input

1. **PURPOSE**  
Requests printing of an office record form.

2. **FORMAT**

   OP:OFR:FORM=a[,b=c[-d]][,OPT=e][,FORMAT=f][,DEVICE=g];

3. **EXPLANATION OF MESSAGE**

   **a** = Form type. Refer to variable ‘d’ for the form types that can be requested.

   **b** = Key ID associated with the form type used for optional ranging. Refer to variable ‘d’ for additional Key ID.
   
   Note: A key ID is required for form 56151.
   
   Note: A "*" in the key ID field represents a secondary key. To request the form with this key, the other key ID associated with this form is required to be entered.

   **c** = Optional key ID number, or the lower limit of a range of key ID numbers.

   **d** = Optional key ID number, or the upper limit of a range of key ID numbers. Refer to the APP:KEY-ID appendix in the Appendixes section of the Input Messages manual.

   **e** = Printing option. Valid value(s):
   
   DELAY = Delay printing until the time set by the IN:OFR-PARM input message.

   **f** = Format of office record option. Valid value(s):
   
   RAW = Office record output is in RAW format. Each row of output in a "RAW" formatted office record is an instance of the Recent Change view associated with the form type being processed. Each row contains tab separated values associated with the fields defined for the particular Recent Change view. When using this format the output is machine readable and can be post processed more easily than the default formatting of office records.

   Office records that are to be raw formatted are scheduled in either of the two following ways:
   
   OP:OFR:CAT=XXX,FORMAT=RAW
   
   OP:OFR:FORM=XXX,FORMAT=RAW

   **g** = Device/file string of up to 9 characters.

<table>
<thead>
<tr>
<th>Device</th>
<th>Use</th>
</tr>
</thead>
<tbody>
<tr>
<td>&quot;FILE*&quot;</td>
<td>OFR.E(reqid) and OFR.O(reqid) are error and output files respectively in the RCLOG partition. Refer to the following note.</td>
</tr>
<tr>
<td>&quot;FIL_FRMID&quot;</td>
<td>(formid).E and (formid).O are error and output files respectively in the RCLOG partition. These files are</td>
</tr>
</tbody>
</table>
created in pairs per formid. The term formid has the same meaning as form type. For example, for form type (or formid) 5050, files 5050.E and 5050.O would be created.

<table>
<thead>
<tr>
<th>Formid</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>&quot;mt00&quot;</td>
<td>High density tape device, IOP 0 rewind after I/O.</td>
</tr>
<tr>
<td>&quot;mt04&quot;</td>
<td>High density tape device, IOP 0 do not rewind after I/O.</td>
</tr>
<tr>
<td>&quot;mt08&quot;</td>
<td>Low density tape device, IOP 0 rewind after I/O.</td>
</tr>
<tr>
<td>&quot;mt0c&quot;</td>
<td>Low density tape device, IOP 0 do not rewind after I/O.</td>
</tr>
<tr>
<td>&quot;mt18&quot;</td>
<td>Low density tape device, IOP 1 rewind after I/O.</td>
</tr>
<tr>
<td>&quot;mt1c&quot;</td>
<td>Low density tape device, IOP 1 do not rewind after I/O.</td>
</tr>
<tr>
<td>&quot;null&quot;</td>
<td>A dummy port used for error checking.</td>
</tr>
<tr>
<td>&quot;report&quot;</td>
<td>A file in the RCLOG partition (appends).</td>
</tr>
<tr>
<td>&quot;ttyC&quot;</td>
<td>STLWS7 DEVICE TYPE=TTY28 (x22) BAUD RATE=4800</td>
</tr>
<tr>
<td>&quot;ttyD&quot;</td>
<td>STLWS8 DEVICE TYPE=TTY29 (x23) BAUD RATE=4800</td>
</tr>
<tr>
<td>&quot;ttyE&quot;</td>
<td>STLWS9 DEVICE TYPE=TTY30 (x24) BAUD RATE=4800</td>
</tr>
<tr>
<td>&quot;ttyF&quot;</td>
<td>STLWS10 DEVICE TYPE=TTY31 (x25) BAUD RATE=4800</td>
</tr>
<tr>
<td>&quot;ttyG&quot;</td>
<td>STLWS11 DEVICE TYPE=TTY32 (x26) BAUD RATE=4800</td>
</tr>
<tr>
<td>&quot;ttyH&quot;</td>
<td>STLWS12 DEVICE TYPE=TTY33 (x27) BAUD RATE=4800</td>
</tr>
<tr>
<td>&quot;ttyl&quot;</td>
<td>STLWS13 DEVICE TYPE=TTY34 (x28) BAUD RATE=4800</td>
</tr>
<tr>
<td>&quot;ttyR&quot;</td>
<td>Office records printer.</td>
</tr>
<tr>
<td>&quot;ttyT&quot;</td>
<td>Traffic printer.</td>
</tr>
<tr>
<td>&quot;ttyU&quot;</td>
<td>Belt line B.</td>
</tr>
<tr>
<td>&quot;ttyY&quot;</td>
<td>STLWS14 DEVICE TYPE=TTY50 (x32) BAUD RATE=4800</td>
</tr>
<tr>
<td>&quot;ttyn&quot;</td>
<td>&quot;SLC®96</td>
</tr>
<tr>
<td>&quot;ttyj&quot;</td>
<td>Supplemental trunk/line work station, fifth.</td>
</tr>
<tr>
<td>&quot;ttyk&quot;</td>
<td>Supplemental trunk/line work station, sixth.</td>
</tr>
<tr>
<td>&quot;ttym&quot;</td>
<td>Supplemental trunk/line work station, second.</td>
</tr>
<tr>
<td>&quot;ttyy&quot;</td>
<td>Supplemental trunk/line work station, third.</td>
</tr>
<tr>
<td>&quot;ttyo&quot;</td>
<td>Supplemental trunk/line work station, fourth.</td>
</tr>
<tr>
<td>&quot;ttyp&quot;</td>
<td>Recent change and verify/Reserved Service Bureau.</td>
</tr>
<tr>
<td>&quot;ttyq&quot;</td>
<td>Recent change and verify/Network Administration Center.</td>
</tr>
<tr>
<td>&quot;ttyr&quot;</td>
<td>Automatic line insulation test/reserved service bureau.</td>
</tr>
<tr>
<td>&quot;ttys&quot;</td>
<td>Magnetic tape controller.</td>
</tr>
<tr>
<td>&quot;ttyt&quot;</td>
<td>Magnetic tape controller.</td>
</tr>
<tr>
<td>&quot;ttyu&quot;</td>
<td>Belt line A.</td>
</tr>
<tr>
<td>&quot;ttyw&quot;</td>
<td>Local recent change and verify.</td>
</tr>
<tr>
<td>&quot;ttyv&quot;</td>
<td>Remote recent change and verify.</td>
</tr>
<tr>
<td>&quot;ttyx&quot;</td>
<td>Master Control Center/Switching Control Center System.</td>
</tr>
<tr>
<td>&quot;ttyy&quot;</td>
<td>Master Control Center/Switching Control Center System.</td>
</tr>
<tr>
<td>&quot;ttyz&quot;</td>
<td>Master Control Center/Switching Control Center System.</td>
</tr>
</tbody>
</table>

Note: FILE option is used primarily by an Operational Support System (OSS) to request office records and store the output in files.

### 4. SYSTEM RESPONSE

**PF** = Printout follows. Followed by the OP:OFR-FORM output message.

Note: A request identification number is printed in the OP:OFR-FORM output message. This number is used in the STP:OFR input message to stop the printing of office records.

### 5. REFERENCES

Input Message(s):

ABT:OFR
IN:OFR–PARAM
OP:OFR–STATUS
STP:OFR
Output Message(s):

OP: OFR-ERROR
OP: OFR-FORM

Input Appendix(es):

APP: KEY-ID

Other Manual(s):

Where (x) is the release-specific version of the specified manual.
235-080-100 Translation Guide (TG-5)
235-118-251 Recent Change Procedures
235-118-25x Recent Change Reference
OP:OFR-STATUS

Software Release: 5E14 and later
Command Group: RCV
Application: 5
Type: Input

1. PURPOSE

Requests a list of all output requests or all output requests of a specific type that are queued internally by the on-line office records capability and/or lists all the internal operating parameters of the on-line office records capability.

2. FORMAT

OP:OFR:STATUS=a[,REQID=b];

3. EXPLANATION OF MESSAGE

a = Request type. Valid value(s):
COMPLETED = List all completed output requests.
PARM = List the internal operating parameters, refer to the OP:OFR-STATUS output message for more details.
PENDING = List all pending output requests.
PROCESSING = List the processing output request.
REQID = List the specified output request.
SCHED = List all internal output requests.

b = Request identification number of print request, as given in the OP:OFR-CAT or OP:OFR-FORM output messages.

Note: Default prints three messages, SCHED, PARM and KEYS.

4. SYSTEM RESPONSE

PF = Printout follows. The request has been accepted. Followed by one or more OP:OFR-STATUS output messages.

5. REFERENCES

Input Message(s):

ABT:OFR
IN:OFR-PARM
OP:OFR-CAT
OP:OFR-FORM
STP:OFR

Output Message(s):
Other Manual(s):

Where (x) is the release-specific version of the specified manual.

235-118-251   Recent Change Procedures
235-118-25x   Recent Change Reference
OP:OLHB

Software Release: 5E14 and later
Command Group: MAINT
Application: 5
Type: Input

1. PURPOSE

Requests the report of the outgoing line history block (OLHB) information for local area signaling services (LASS).

2. FORMAT

[1]   OP:OLHB,DN=a;

[2]   OP:OLHB,b[,PTY=c];

3. EXPLANATION OF MESSAGE

a   = Ten-digit directory number (DN) of the line.

b   = Valid value(s):

<table>
<thead>
<tr>
<th>ILEN=d-e-f-g</th>
<th>LCEN=d-u-t-j</th>
<th>LCKEN=d-u-i-r-s</th>
<th>LEN=d-h-k-l-m-n</th>
<th>SLEN=d-o-p-q</th>
</tr>
</thead>
</table>

b   = Party. One of the following for an analog ILEN, LEN, LCEN, or SLEN. Refer to the RC/V view 1.6 for the specified office equipment (OE) number. Valid value(s):

0-9   = Multi-party (4, 5, 8, or 10 party lines).
I   = Individual line (default).
R   = 2 party ring.
T   = 2 party tip.

One of the following for an ISDN LCEN, ILEN, or LCKEN. Refer to the RC/V view 23.1 for the specified OE number. Valid value(s):

0-7   = Multi-point.
I,0   = Point-point (default).

d   = Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

e   = IDCU number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

f   = Remote terminal (RT) number or IDCU digital signal level 1 (DS1) serving PUB43801 number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

g   = RT line number or PUB43801 channel. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

h   = Line unit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
Messages manual.

i = Line group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

j = Line card number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

k = Grid number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

l = Switch board number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

m = Switch number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

n = Level number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

o = Digital carrier line unit (DCLU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

p = RT number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

q = RT line number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

r = Line board number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

s = Line circuit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

t = Line group controller number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

u = ISDN line unit (ISLU/ISLU2). Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

NG = No good. Valid value(s):
- INVALID OFFICE EQUIPMENT NUMBER = This request was denied because an invalid office equipment number was entered.
- MUST ENTER TEN NUMERIC DIGITS = This request was denied because ten numeric digits must be entered.

PF = Printout follows. Followed by the OP:OLHB output message.

RL = Retry later. The request has been denied, probably due to system load.
5. REFERENCES

Output Message(s):

OP: OLHB

Input Appendix(es):

APP: RANGES

Other Manual(s):
235-118-243 Recent Change Verify
235-190-130 Local Area Signaling Services Features

RC/V View(s):

1.6 [COMPOSITE LINE (LINE ASSIGNMENT)]
23.1 (DSL USERS)
OP:OMDB

Software Release: 5E14 and later
Command Group: SFTMGT
Application: 5,3B
Type: Input

1. PURPOSE

Requests that the message text, message class, and alarm level from an OMDB entry be output for the given key or keys.

2. FORMAT

OP:OMDB:a: KEY b;

3. EXPLANATION OF MESSAGE

a = Copy of output message database to access. Valid value(s):
   ACT = Active OMDB.
   DISK = OMDB disk file.

b = Message key (or list of keys). Refer to the APP:OMDB-X-REF appendix in the Appendixes section of the Output Messages manual for a list of valid OMDB keys.

4. SYSTEM RESPONSE

NG = No good. May also include:
   - INVALID KEY = A message key is not within the valid range.
   - INVALID OMDB COPY = DISK or ACT not entered for OMDB copy to access.
   - SYNTAX ERROR = Command is not in the correct format.
   - TOO MANY KEYS = Maximum of 32 keys are allowed per input message.

PF = Printout follows. Followed by the OP:OMDB output message.

5. REFERENCES

Input Message(s):

   ACTV:OMDB
   UPD:OMDB

Output Message(s):

   OP:OMDB

Output Appendix(es):

   APP:OMDB-X-REF
Other Manual(s):
235-105-250 System Recovery
OP:OOS

Software Release: 5E14 and later
Command Group: AM
Application: 5,3B
Type: Input

1. PURPOSE

Requests a list of all currently out-of-service (OOS) administrative module (AM) hardware units. This format provides a list of all out-of-service units of a particular type.

2. FORMAT

OP:OOS[, a=b [, c=d ]];

3. EXPLANATION OF MESSAGE

a  = Unit name. Refer to the APP:MEM-NUM-UNIT appendix in the Appendixes section of the Input Messages manual for AM unit names.

b  = Unit number. Refer to the APP:MEM-NUM-UNIT appendix in the Appendixes section of the Input Messages manual.

c  = Subunit name, if 'a' = CU. Refer to the APP:MEM-NUM-CU appendix in the Appendixes section of the Input Messages manual for AM control unit (CU) subunit names.

d  = Subunit number. Refer to the APP:MEM-NUM-CU appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

PF  = Printout follows. Followed by the OP:OOS output message.

RL  = Retry later.

?D  = Data field error.

5. REFERENCES

Input Message(s):

OP:CFGSTAT

Output Message(s):

OP:CFGSTAT
OP:OOS

Input Appendix(es):
APP : MEM–NUM–CU
APP : MEM–NUM–UNIT

MCC Display Page(s):

(COMMON PROCESSOR DISPLAY)
OP:OPUMP

Software Release: 5E14 and later
Command Group: SFTMGT
Application: 5
Type: Input

1. PURPOSE
Requests the offline pump status of a switching module's (SM's) peripheral units. The SM prints out a list of the peripherals that failed the offline pump (refer to the OP:OPUMP output message).

2. FORMAT

OP:OPUMP,SM=a[&b];

3. EXPLANATION OF MESSAGE

a = SM number, or the lower limit of a range of SM numbers.

b = Upper limit of the range of SM numbers.

4. SYSTEM RESPONSE

NG = No good. The request has been denied. The message form is valid, but the SM or range of SMs specified do not exist.

PF = Printout follows. Followed by the OP:OPUMP output message.

5. REFERENCES

Input Message(s):

ST:OPUMP-SM
STP:OPUMP-SM

Output Message(s):

OP:OPUMP
OP:OSPS

Software Release: 5E14 and later
Command Group: TRKLN
Application: 5
Type: Input

1. PURPOSE

Requests a listing of the external database (XDB) multi-line hunt group (MLHG) which corresponds to three input parameters: OPERATOR SERVICE CENTER (OSC 1-32), OPERATOR SERVING TEAM (ST 0-128), and DATABASE (DB 1-7).

2. FORMAT

OP:OSPS,OSC=a,ST=b,DB=c;

3. EXPLANATION OF MESSAGE

a = OSC number.
b = ST number.
c = DB number.

4. SYSTEM RESPONSE

PF = Printout follows. Followed by the OP:OSPS output message.
RL = Retry later. The request has been denied, probably due to system load. The input message OP:JOBSTATUS can be used to determine if the RL was because the maximum number of request jobs is active.

5. REFERENCES

Output Message(s):

OP:OSPS

MCC Display Page(s):

(DATA LINK DSLS)
(DATALINKS)
OP:OUTCLS

Software Release: 5E14 and later
Command Group: MAINT
Application: 5
Type: Input

1. PURPOSE

Requests one or all of the available output classes in the equipment configuration database (ECD) and the device(s) assigned to these output classes.

2. FORMAT

```
OP:OUTCLS=a[:DEST=b];
```

3. EXPLANATION OF MESSAGE

a = Output class. If a single output class is requested, the devices assigned to that output class are displayed. If ALL output classes are requested, the devices assigned to all output classes in the ECD are displayed.

b = Destination class. If a destination is requested, the output message will be sent to the specified output class. Otherwise, the output message will be directed to the maintenance teletype (MTTY).

4. SYSTEM RESPONSE

PF = Printout follows.

5. REFERENCES

Output Message(s):
```
OP:OUTCLS
```

Output Appendix(es):
```
APP:MSGCLS
```

Other Manual(s):
235-190-120 Common Channel Signaling Service Features

MCC Display Page(s):
118 (CNI FRAME AND CCS LINK STATUS)
OP:OVRLD-AM-SM

Software Release: 5E14 and later
Command Group: MAINT
Application: 5
Type: Input

1. PURPOSE

Requests an overload status report. The report is for the administrative module (AM), a switching module (SM), a communications module processor (CMP), a direct link node processor (DLN), or a quad-link packet switch gateway processor (QGP).

2. FORMAT


3. EXPLANATION OF MESSAGE

ALL = Give the status of each module that is currently in overload. If no module is in overload, then no message will be given.

HSM = Give the status of all host SMs in the SM range requested.

LSM = Give the status of all local SMs in the SM range requested.

MATE = Mate CMP.

ORM = Give the status of all optical remote SMs in the SM range requested.

PRIM = Primary CMP.

RSM = Give the status of all remote SMs in the SM range requested.

TRM = Give the status of all two-mile optical remote SMs in the SM range requested.

DRM = Give the status of all distinctive remote SMs in the SM range requested.

a = Switching module (SM) number, or lower limit of a range of SM numbers.

b = Upper limit of a range of SM numbers.

c = Communication module processor (CMP) number.

d = Message switch side number.

e = QGP number.

4. SYSTEM RESPONSE

OK = Good. Valid value(s):
- NO MODULE OVERLOADED = Message received, but there are no modules in overload, and there will be no printed report.
PF = Printout follows. Followed by the OP:OVRLD output message.

5. REFERENCES

Output Message(s):

OP : OVRLD

Other Manual(s):
235-190-115  Local and Toll System Features
**OP:PB**

Software Release: 5E14 and later
Command Group: TRKLN
Application: 5
Type: Input

1. **PURPOSE**

Requests the display of the position busy (PB) and not position busy (NPB) status of each of the trunk line work stations (TLWSs) or centralized trunk test units (CTTUs) that are assigned to receive incoming 101 test calls. From this data, the user can direct the destination of the incoming 101 test line call by using the input messages SET:PB and CLR:PB.

2. **FORMAT**

OP:PB;

3. **EXPLANATION OF MESSAGE**

No variables.

4. **SYSTEM RESPONSE**

NA = No acknowledgement. The request has not been acknowledged. It is probable the request has been lost.

PF = Printout follows. The request has been accepted. Followed by the OP:PB output message displaying the position busy status of the TLWSs or CTTUs.

RL = Retry later. The request has been denied due to system overload.

5. **REFERENCES**

Input Message(s):

- CLR:PB
- SET:PB

Output Message(s):

- OP:PB

Other Manual(s):

Where 'x' is the release-specific version of the document.

- 235-100-125 System Description
- 235-105-110 System Maintenance Requirements and Tools
- 235-105-220 Corrective Maintenance

RC/V View(s):
8.1 (OFFICE PARAMETERS)
14.0 (VERIFY 101 TEST LINE)
OP:PCF

**Software Release:** 5E17(1) and later  
**Command Group:** PCF  
**Application:** 5  
**Type:** Input

**WARNING:** INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. **PURPOSE**

Requests the status of a packet data serving node (PDSN) or all PDSNs on a packet control function (PCF).

Format 1 requests the status for a single PDSN on a PCF.

Format 2 requests the status for all PDSNs on a PCF by optionally specifying the PDSN status. If the PDSN status is not specified, all PDSN statuses will be displayed.

**WARNING:** This input message can potentially output many segments of data which could severely affect operations at the technician control center. The STP:PCF input message can be used to terminate the output from this input message.

2. **FORMAT**

[1] \text{OP:PCF,CHNG=a-b-c-d,PDSNIP=e-f-g-h;}

[2] \text{OP:PCF,CHNG=a-b-c-d[,STATE=i];}

3. **EXPLANATION OF MESSAGE**

\begin{itemize}
\item \textbf{a} = SM number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
\item \textbf{b} = PSU number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
\item \textbf{c} = Shelf number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
\item \textbf{d} = Protocol handler (PH) channel group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
\item \textbf{e} = Internet Protocol address segment (0-255).
\item \textbf{f} = Internet Protocol address segment (0-255).
\item \textbf{g} = Internet Protocol address segment (0-255).
\item \textbf{h} = Internet Protocol address segment (0-255).
\item \textbf{i} = PDSN status. Valid value(s):
\begin{itemize}
\item \textbf{ALL} = The status of PDSN can be any status.
\end{itemize}
\end{itemize}
DEGRADED = The PDSN is in service, but marked degraded.
IS = The PDSN is in service.
OOS = The PDSN is out of service
REMOVED = The PDSN has been degrown in RC/V but still has active sessions.
UNKNOWN = The status of the PDSN is unknown.

4. SYSTEM RESPONSE

PF = Printout follows. Followed by the OP PCF output message.

5. REFERENCES

Input Message(s):

STP:PCF

Output Message(s):

OP:PCF
STP:PCF

Input Appendix(es):

APP:RANGES
OP:PCTF

Software Release: 5E14 and later
Command Group: TRKLN
Application: 5
Type: Input

1. PURPOSE

Requests a list of all per-call test failures (PCTFs) that have occurred in all switching modules (SMs), a range of SMs, or a particular SM since the last time the periodic list was printed. Requests which do not specify a range of SMs will result in all equipped SMs in the system being reported. Only one OP:PCTF request can be active in the system at any moment; any additional requests will be denied. The OP:PCTF request will not clear the SM based PCTF counts; only the periodic report (REPT:PCTF-SUMMARY) will cause the PCTF counts to be cleared (set to zero).

2. FORMAT

OP:PCTF[,SM=a[&b]];  

3. EXPLANATION OF MESSAGE

a = SM number, or lower limit of a range of SM numbers.
b = Upper limit of a range of SM numbers.

4. SYSTEM RESPONSE

PF = Printout follows. The request has been accepted. Followed by the OP:PCTF output message.
RL = Retry later. The request has been denied, probably due to system load.

5. REFERENCES

Input Message(s):

STP:PCTF

Output Message(s):

OP:PCTF
REPT:PCTF-SUMMARY

Other Manual(s):

235-105-220  Corrective Maintenance
1. PURPOSE

Requests the Operating System for Distributed Switching (OSDS) resource monitoring utility to collect and report usage of OSDS message, process, stack, and timer control blocks. Reports will be generated periodically until the utility is disabled by the STP:PERF input message or after two hours have elapsed.

2. FORMAT

OP:PERF, {AM | CMP=a-b | SM=c}, [TIME=d];

3. EXPLANATION OF MESSAGE

AM = Operational kernel process in the administrative module (AM).
a = Message switch side (0 or 1).
b = Communications module processor (CMP) number.
c = Switching module (SM) number.
d = Interval, in minutes, between reports. (1-15, default 15)

4. SYSTEM RESPONSE

NG = No good. The message syntax is valid, but the request conflicts with a previous request, or with current system or equipment status. May also include:
- CMP NOT EQUIPPED = Requested CMP is not equipped.
- INTERNAL ERROR = An internal error has occurred while processing a CMP request.
- PREV REQ INPROG, ISSUE 'STP:PERF,AM' TO CANCEL = Previous request in progress. OSDS resource monitoring is already enabled in the AM.
- PREV REQ INPROG, ISSUE 'STP:PERF,CMP=#-#' TO CANCEL = Previous request in progress. OSDS resource monitoring is already enabled in the requested CMP.
- PREV REQ INPROG, ISSUE 'STP:PERF,SM=###' TO CANCEL = Previous request in progress. OSDS resource monitoring is already enabled in the requested SM.

PF = Printout follows. Followed by the OP:PERF output messages.

RL = Retry later. The request cannot be initiated now due to unavailable system resources. May also include:
- CMP SOFT SWITCH INPG = A CMP soft switch is in progress.
- CMP UNAVAILABLE = Requested CMP is out of service, initializing, or unavailable.

5. REFERENCES

235-600-700 December 2003

Copyright ©2003 Lucent Technologies
Input Message(s):

STP : PERF

Output Message(s):

OP : PERF
OP:PERPH-SM-SUM

Software Release: 5E14 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Requests a summary of peripheral (PERPH) transient errors on switching modules (SMs). Peripheral transient errors are counted by peripheral fault recovery (PFR) but are not normally reported.

Two different types of peripheral transient error summary messages may be requested. The system (SYS) wide SM peripheral error summary message will print the total number of transient peripheral errors which have occurred in the requested SMs.

The system wide SM error summary is printed at 7:00AM, and cleared at 7:00PM, automatically each day. The system wide SM error summary counts can also be cleared by request.

It is possible to request that the system wide peripheral error summary be printed every hour. The hourly printout will be printed every hour from the time at which it was enabled. For example, if the hourly report mechanism is enabled at 18:44 then the first report will be at 19:44. The hourly reports will continue to be printed until the mechanism is disabled.

A more detailed summary of SM transient peripheral errors which lists the transient errors for SMs by unit type (UNIT) can also be requested. The error counts for the UNIT summary message can be cleared (CLR) by request, and are automatically cleared at 7:00 PM each day.

2. FORMAT

OP:PERPH, {SM= a[b], CLR], SUM=[c] | HOURLY= {ON | OFF}};

3. EXPLANATION OF MESSAGE

CLR = Clear unit type error summary information in each specified SM after summary information is printed.
Note: This will not clear out the system wide SM error summary counts.

a = SM number or lower limit of range of SM numbers. Default is all SMs.

b = Upper limit of range of SM numbers.

c = Summary (SUM) type. Valid value(s):
SYS = Request system wide SM transient peripheral error summary
UNIT = Request summary of transient peripheral errors by unit type for each SM indicated (default).

4. SYSTEM RESPONSE

NG = No good. The request has been denied. May also include:
- **ALREADY IN REQUESTED STATE** = The request cannot be honored because the hourly report mechanism is already in the state requested.
- **SM UNEQUIPPED** = The request has been denied. The SM number does not match any equipped SM.

**OK**

= Good. The request has been accepted.

**PF**

= Printout follows. Followed by either the OP:PERPH-SYS-ES (if SUM=SYS) or OP:PERPH-SM-UES (if SUM=UNIT) output message.

**RL**

= Retry later. System resource shortage. May also include:
- **CANNOT CREATE TERMINAL PROCESS** = The request cannot be executed now due to the unavailability of the system resources necessary for creating a terminal process.

### 5. REFERENCES

Output Message(s):

- OP:PERPH-SM-SUM
- OP:PERPH-SM-UES
- OP:PERPH-SYS-ES

Other Manual(s):
235-105-220  *Corrective Maintenance*
OP:PLNT24-A

Software Release: 5E14 - 5E16(2)
Command Group: MEAS
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Requests that the plant report be printed at a time other than the regularly scheduled time.

WARNING: It is recommended that PART24 not be requested during busy hours because this request could generate up to 2000 lines of data.

2. FORMAT

OP:PLNT24:{a|ALL};

3. EXPLANATION OF MESSAGE

ALL = Print all parts of the 24-hour plant report.

a = Name of report part to be printed. Valid value(s):
  PART1 = Service measurements.
  PART2 = Equipment performance.
  PART3 = Performance measurements.
  PART4 [=x] = Remote switching module (RSM) maintenance service and performance, where 'x' is the RSM number(s) (maximum of five numbers, separated by "."). If 'x' is not specified, all RSMs will be printed.
  PART5 = Trunk error analysis.
  PART6 = Interlata carrier measurements.
  PART7 = Network call denial.
  PART8 = RSM cluster measurements.
  PART9 = Integrated services digital network (ISDN) packet switching office totals.
  PART10 = Operator Services Position System (OSPS) processors counts.
  PART11 = ISDN office totals.
  PART13 = OSPS real-time rating query measures.
  PART14 = OSPS facility administration measures.
  PART15 = OSPS measurements.
  PART16 = OSPS interflow measures.
  PART17 = OSPS line information database (LIDB) measures.
  PART18 = OSPS customer account services (CAS).
  PART19 = Action control point (ACP) for software defined network.
  PART21 = Leased network action point.
  PART22 = OSPS intercept measures.
  PART23 = OSPS customer account services release 3 signaling measures.
  PART24 = Machine detected inter-office irregularity (MDII) trunk group measurements.
  PART25 = ISDN user part (ISUP) office totals.
  PART26 = DS1 measurements.
  PART27 = Static proportionate bidding (PB) measurements.
PART28 = OSPS international credit card validation (ICCV) measures by foreign database.
PART29 = OSPS line applications for consumers (LAC) signaling measures.
PART30 = OSPS originating line number screening (OLNS) measures.
PART36 = Signaling link performance.

4. SYSTEM RESPONSE

NG = No good. May also include:
- DATA NOT AVAILABLE = The request was made during the automatic preparation of the report.
- DATA NOT AVAILABLE AT THIS TIME = Report is being generated and, therefore, manual requests are locked out, or the report has not generated since an initialization.
- DATA NOT COLLECTED = Data for this part was not collected.
- FEATURE NOT AVAILABLE = The feature required to process the request is not present in the switch.

PF = Printout follows. The request has been received and is being processed. If the report is available, it will follow. Otherwise, an error message will follow.

5. REFERENCES

Input Message(s):
ALW:PLNT24
INH:PLNT24
OP:ST-PLNT24

Output Message(s):
OP:PLNT24-ND
OP:PLNT24-PT01A
OP:PLNT24-PT01B
OP:PLNT24-PT02A
OP:PLNT24-PT02B
OP:PLNT24-PT03
OP:PLNT24-PT04
OP:PLNT24-PT05
OP:PLNT24-PT06
OP:PLNT24-PT07
OP:PLNT24-PT08
OP:PLNT24-PT09
OP:PLNT24-PT10
OP:PLNT24-PT10B
OP:PLNT24-PT11
OP:PLNT24-PT13
OP:PLNT24-PT14
OP:PLNT24-PT15
OP:PLNT24-PT16
OP:PLNT24-PT17
OP:PLNT24-PT18
OP:PLNT24-PT19
OP:PLNT24-PT21
OP:PLNT24-B

Software Release: 5E17(1) and later
Command Group: MEAS
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Requests that the plant report be printed at a time other than the regularly scheduled time.

WARNING: It is recommended that PART24 not be requested during busy hours because this request could generate up to 2000 lines of data.

2. FORMAT

OP:PLNT24:{a|ALL};

3. EXPLANATION OF MESSAGE

<table>
<thead>
<tr>
<th>ALL</th>
<th>= Print all parts of the 24-hour plant report.</th>
</tr>
</thead>
<tbody>
<tr>
<td>a</td>
<td>= Name of report part to be printed. Valid value(s):</td>
</tr>
<tr>
<td>PART1</td>
<td>= Service measurements.</td>
</tr>
<tr>
<td>PART2</td>
<td>= Equipment performance.</td>
</tr>
<tr>
<td>PART3</td>
<td>= Performance measurements.</td>
</tr>
<tr>
<td>PART4 [=x]</td>
<td>= Remote switching module (RSM) maintenance service and performance, where 'x' is the RSM number(s) (maximum of five numbers, separated by &quot;.&quot;). If 'x' is not specified, all RSMs will be printed.</td>
</tr>
<tr>
<td>PART5</td>
<td>= Trunk error analysis.</td>
</tr>
<tr>
<td>PART6</td>
<td>= Interlata carrier measurements.</td>
</tr>
<tr>
<td>PART7</td>
<td>= Network call denial.</td>
</tr>
<tr>
<td>PART8</td>
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<td>PART9</td>
<td>= Integrated services digital network (ISDN) packet switching office totals.</td>
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<td>PART10</td>
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</tr>
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<td>PART11</td>
<td>= ISDN office totals.</td>
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<td>= OSPS real-time rating query measures.</td>
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PART28 = OSPS international credit card validation (ICCV) measures by foreign database.
PART29 = OSPS line applications for consumers (LAC) signaling measures.
PART30 = OSPS originating line number screening (OLNS) measures.
PART36 = Signaling link performance.
PART37 = ATM quality of service.
PART38 = ATM quality of service for PSU to PSU connection.

4. SYSTEM RESPONSE

NG = No good. May also include:
- DATA NOT AVAILABLE = The request was made during the automatic preparation of the report.
- DATA NOT AVAILABLE AT THIS TIME = Report is being generated and, therefore, manual requests are locked out, or the report has not generated since an initialization.
- DATA NOT COLLECTED = Data for this part was not collected.
- FEATURE NOT AVAILABLE = The feature required to process the request is not present in the switch.

PF = Printout follows. The request has been received and is being processed. If the report is available, it will follow. Otherwise, an error message will follow.

5. REFERENCES

Input Message(s):

ALW:PLNT24
INH:PLNT24
OP:ST-PLNT24

Output Message(s):

OP:PLNT24-ND
OP:PLNT24-PT01A
OP:PLNT24-PT01B
OP:PLNT24-PT02A
OP:PLNT24-PT02B
OP:PLNT24-PT03
OP:PLNT24-PT04
OP:PLNT24-PT05
OP:PLNT24-PT06
OP:PLNT24-PT07
OP:PLNT24-PT08
OP:PLNT24-PT09
OP:PLNT24-PT10
OP:PLNT24-PT10B
OP:PLNT24-PT11
OP:PLNT24-PT13
OP:PLNT24-PT14
OP:PLNT24-PT15
OP:PLNT24-PT16
OP:PLNT24-PT17
OP:PLNT24-PT18
OP:PLNTHR

Software Release: 5E14 and later
Command Group: MEAS
Application: 5
Type: Input

1. PURPOSE
Requests the last complete hourly plant report.

2. FORMAT
OP:PLNTHR;

3. EXPLANATION OF MESSAGE
No variables.

4. SYSTEM RESPONSE

NG = No good. May also include:
   - DATA NOT AVAILABLE AT THIS TIME = Report is being generated and, therefore, manual requests are locked out, or the report has not generated since an initialization.

PF = Printout follows. Followed by the OP:PLNTHR output message.

5. REFERENCES

Input Message(s):
ALW:PLNTHR
INH:PLNTHR

Output Message(s):
OP:PLNTHR-PT01A
OP:PLNTHR-PT02A
OP:PLNTHR-PT02B
OP:PLNTHR-PT03

Other Manual(s):
235-070-100 Administration and Engineering Guidelines
OP:PLNTMO

Software Release: 5E14 and later
Command Group: MEAS
Application: 5
Type: Input

1. PURPOSE

Requests that the monthly plant report be obtained at a time other than the regularly scheduled time. Reports requested at times other than the standard report times will only contain totals accumulated since the previous automatic report.

2. FORMAT

OP:PLNTMO;

3. EXPLANATION OF MESSAGE

No variables.

4. SYSTEM RESPONSE

\[\text{NG} = \text{No good. May also include:}
\]
\[\quad \text{- DATA NOT AVAILABLE AT THIS TIME} = \text{Report is being generated and, therefore, manual}
\]
\[\quad \text{requests are locked out, or the report has not generated since an initialization.}
\]

\[\text{PF} = \text{Printout follows. The request has been received and is being processed. If the monthly plant}
\]
\[\quad \text{report OP:PLNTMO is available, it will follow. Otherwise, an error message will follow.}
\]

5. REFERENCES

Output Message(s):

OP:PLNTMO-PT01A
OP:PLNTMO-PT01B
OP:PLNTMO-PT02A
OP:PLNTMO-PT02B
OP:PLNTMO-PT03
OP:PLNTMO-PT04
OP:PLNTMO-PT05
OP:PLNTMO-PT06
OP:PLNTMO-PT07
OP:PLNTMO-PT08
OP:PLNTMO-PT09
OP:PLNTMO-PT10
OP:PLNTMO-PT10B
OP:PLNTMO-PT11
OP:PLNTMO-PT12
OP:PLNTMO-PT13
OP:PLNTMO-PT14
OP:PLNTMO-PT15
OP:PLNTMO-PT16
OP:PM-PP-MCTSI

Software Release: 5E14 and later
Command Group: SYSRCVY
Application: 5
Type: Input

1. PURPOSE

Requests the output of the port processor's (PP's) postmortem reports saved in the specified module controller time slot interchanger (MCTSI). The postmortem report will be locked in memory for 72 hours, or until it is manually released by the RLS:PM-PP-MCTSI input message. When memory is unlocked, the next autonomous packet switching unit protocol handler (PSUPH) or packet interface (PI) initialization will have its postmortem report saved in the PI of the in-service MCTSI.

The PI's postmortem save area in an out-of-service MCTSI will not be updated when it is returned to service. The manual release of a postmortem report from a single MCTSI allows the save areas to hold different reports. Thus, a time stamp will be supplied in the postmortem report to help determine the time sequence of initialization actions.

2. FORMAT

OP:POSTMORT,PP,MCTSI=a-b;

3. EXPLANATION OF MESSAGE

Note: Refer to the Acronym section of the Input Messages manual for the full expansion of acronyms shown in the format.

a = Switching module (SM) number.

b = MCTSI side number (0 or 1).

4. SYSTEM RESPONSE

IP = In progress. The message was accepted and the output of the postmortem reports is in progress.

NG = No good. The message was not accepted because the SM is isolated or the MCTSI is out of service.

NO = Feature not available. The requested action failed because the feature required to process the request is not present in the module.

5. REFERENCES

Input Message(s):

CHG:PRNTMODE
OP:HISTORY
RLS:PM-PP-MCTSI

Output Message(s):
**OP:PM-SM**

**Software Release:** 5E14 and later  
**Command Group:** SYSRCVY  
**Application:** 5  
**Type:** Input

### 1. PURPOSE

Requests a copy of the specified postmortems from the specified switching module (SM). The postmortem also prints automatically 5 minutes after a recovery unless requested by this input request or released by the RLS:POSTMORT input request. If no specific postmortem type is requested, then by default the online SPP, EVENT, ESCAL, RCVY, and DCF postmortems are dumped.

Execution of this input request will cause any of the output messages listed under REFERENCES.

### 2. FORMAT

\[
\text{OP:POSTMORT,SM=SMaN[,OFL][,SPP][,EVENT][,ESCAL][,RCVY][,DCF]};
\]

### 3. EXPLANATION OF MESSAGE

- **DCF** = Execute defensive check failure postmortem dump.
- **ESCAL** = Execute escalation count postmortem dump.
- **EVENT** = Execute event history postmortem dump.
- **OFL** = Execute a dump of the offline postmortem. If this option is specified alone, offline SPP, event, and escalation histories will be dumped. When OFL is specified, the RCVY or DCF options are not allowed. Default is to dump the online postmortem.
- **RCVY** = Execute recovery output reports postmortem dump.
- **SPP** = Execute SPP history postmortem dump.
- **a** = SM number. Refer to the APP:RANGES appendix in the Appendixes section of the Output Messages manual.

### 4. SYSTEM RESPONSE

- **NG** = No good. The request was not accepted because an illegal SM number was specified. May also include:
  - **OFL AND DCF OR RCVY NOT ALLOWED** = The combination of options OFL with DCF or RCVY is not a legal combination.
  - **OFFLINE DATA NOT AVAILABLE** = The data which resides on the offline side of the switch module has not been set up by SM offline verification. This data only gets set up after an offline pump with the verification option set. An illegal SM number was specified.

- **PF** = Printout follows.

### 5. REFERENCES
Input Message(s):

RLS:POSTMORT

Output Message(s):

INIT:SM-LVL-SUM
REPT:DATA
REPT:EVENTHIST
REPT:SM-HWLVL
REPT:STACK-FRAME
REPT:STACK-TRACE
OP:PM

Software Release: 5E14 and later
Command Group: TRKLN
Application: 5
Type: Input

1. PURPOSE

Requests a list of active protocol monitoring (PM) sessions.

2. FORMAT

OP:PM{,SES=a|ALL}[,PRINT];

3. EXPLANATION OF MESSAGE

Note: Refer to the Acronym section of the Input Messages manual for the full expansion of acronyms shown in the format.

ALL = All active protocol monitoring sessions.
PRINT = Print on the receive-only printer (ROP).

Note: If the request is initiated from the MCC or a STLWS, the output is automatically printed on the ROP. Any other device requires this option for printing output on the ROP.

a = The protocol monitoring session (SES) specified in the EXC:PM output message.

4. SYSTEM RESPONSE

NG = No good. The message was not recognized, or was not acceptable.
PF = Printout follows. The request has been accepted and is in progress. Followed by the OP:PM output message(s).
RL = Retry later. The system is busy.

5. REFERENCES

Input Message(s):

EXC:PM
STP:PM

Output Message(s):

EXC:PM
OP:PM
STP:PM
Input Appendix(es):

APP: RANGES

Other Manual(s):
235-105-110  System Maintenance Requirements and Tools
235-190-130  Local Area Services Features
235-900-301  ISDN Basic Rate Interface Specification
OP:PMCCS
Software Release: 5E14 and later
Command Group: CCS
Application: 5
Type: Input

1. PURPOSE
Requests a list of active CCS protocol monitoring (PM) sessions and provides status of the PM processors.

2. FORMAT
OP:PMCCS{,SES=a|ALL}[,PRINT][,VERBOSE];

3. EXPLANATION OF MESSAGE
Note: Refer to the Acronym section of the Input Messages manual for the full expansion of acronyms shown in the format.

ALL = All active CCS protocol monitoring sessions.
PRINT = Print on the receive-only printer (ROP).
Note: If the request is initiated from the MCC or a STLWS, the output is automatically printed on the ROP. Any other device requires this option for printing output on the ROP.

VERBOSE = Print additional information regarding the status of the processors involved in the PM session.
Lists the SCREENING, RECORDING, ABORTED or OVERLOADED processors for the PM session.

a = The protocol monitoring session (SES) specified in the EXC:PMCCS output message.

4. SYSTEM RESPONSE
NG = No good. The message was not recognized, or was not acceptable.
PF = Printout follows. The request has been accepted and is in progress. Followed by the OP:PMCCS output message(s).
RL = Retry later. The system is busy.

5. REFERENCES
Input Message(s):
   EXC:PMCCS
   STP:PMCCS

Output Message(s):
   EXC:PMCCS
Other Manual(s):
235-105-110  System Maintenance Requirements and Tools
**OP:PMCR**

Software Release: 5E14 and later  
Command Group: MEAS  
Application: 5,3B  
Type: Input

1. **PURPOSE**

Requests the various plant measurements common reports, detailing system performance statistics. By default, the data collected for the previous hour is reported every hour and the data collected for the previous day is reported at midnight.

2. **FORMAT**

   [1]  OP:PMCR,TYPE=STAT[,HOURLY|,DAILY=a|,NOHOURLY|,NODAILY];  
   [2]  OP:PMCR,TYPE=RET,INTVL=b,FORM=c;  
   [3]  OP:PMCR,TYPE=DEM,FORM=c;

3. **EXPLANATION OF MESSAGE**

Each of the three formats (for STAT, RET, and DEM) has its own distinct purpose.

**DAILY**  = Set the option for daily reports to be output once per day.  
**DEM**  = Demand report. Outputs a report of up-to-the-hour data collected for the next daily report (as determined by the STAT format, default is midnight). Demand reports should not be attempted until at least one hour after a valid scheduled daily report has been generated.  
**HOURLY**  = Set the option for hourly reports to be output every hour. Use only with STAT form.  
**NODAILY**  = Sets the option for daily reports not to be output. Use only with STAT format.  
**NOHOURLY**  = Sets the option for hourly reports not to be output. Use only with STAT format.  
**RET**  = Retained report. Outputs a report of the previous daily or hourly data, depending on the interval entered. Requesting a daily retained report should not be attempted until after a scheduled daily report has been generated. Requesting an hourly retained report should not be attempted until after a scheduled hourly report has been generated.  
**STAT**  = Status report. Indicates whether the hourly and/or daily scheduled reports will be output. This form is used to turn the scheduled reports on or off. This form is also used to enable/disable printing of the daily/hourly reports or to change the hour when the daily report is output.  

   a  = The hour ‘a’, 0-23, where the default is 0 (midnight). Use only with STAT format.  
   b  = Report interval. ‘b’ values are HOURLY or DAILY. Used only with RET format, HOURLY outputs the data from the previous hour; DAILY from the previous day.  
   c  = Report form. ‘c’ values are 1 or 2, where form 1 outputs system and equipment performance and 2 outputs more detailed equipment performance.
4. SYSTEM RESPONSE

**PF** = Printout follows. Followed by the REPT:OP-PMCR output message.

5. REFERENCES

Output Message(s):

- **OP:PMCR-ERROR**
- **REPT:OP-PMCR**
1. PURPOSE

Requests a copy of the postmortem for the digital networking unit - synchronous optical network (DNU-S) common controller (DNUSCC), the integrated digital carrier unit (IDCU), the integrated service line unit common controller (ISLUCC) or the transmission multiplexer (TMUX). The postmortem also prints automatically five minutes after a recovery unless requested sooner by this input message.

2. FORMAT

OP:POSTMORT[,HISTORY],{DNUSCC=a-b-c|IDCU=a-d-e|ISLUCC=a-f-c|TMUX=a-b-g-h};

3. EXPLANATION OF MESSAGE

**HISTORY** = Log the events of the DNUSCC, IDCU, ISLUCC or TMUX postmortem.

a  = Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

b  = DNU-S number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

c  = Common controller number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

d  = IDCU number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

e  = Service group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

f  = Integrated services line unit (ISLU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

g  = Data group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

h  = TMUX number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

**NG** = No good. The message was not accepted because the SM is isolated or the equipment does not exist.

**PF** = Printout follows. The OP:PM-DNUSCC for DNU-S output, OP:PM-IDCU for IDCU output, OP:PM-ISLUCC for ISLUCC output or OP:PM-TMUX for TMUX output message follows.
5. REFERENCES

Output Message(s):

OP: PM–DNUSCC
OP: PM–IDCU
OP: PM–ISLUCC
OP: PM–TMUX

Input Appendix(es):

APP: RANGES

Other Manual(s):
235-105-110  System Maintenance Requirements and Tools
OP:POSTMORT-B

Software Release: 5E16(2) and later
Command Group: SYSRCVY
Application: 5
Type: Input

1. PURPOSE

Requests a copy of the postmortem for the digital networking unit - synchronous optical network (DNU-S) common controller (DNUSCC), the integrated digital carrier unit (IDCU), the integrated service line unit common controller (ISLUCC), the transmission multiplexer (TMUX) or the Optical Facility Interface (OFI). The postmortem also prints automatically five minutes after a recovery unless requested sooner by this input message.

2. FORMAT

OP:POSTMORT[,HISTORY],{DNUSCC=a-b-c|IDCU=a-d-e|ISLUCC=a-f-c|OFI=a-i-j-k|... . . .TMUX=a-b-g-h};

3. EXPLANATION OF MESSAGE

   HISTORY = Print event history from the specified DNUSCC, IDCU, ISLUCC, or TMUX postmortem.
   a = Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
   b = DNU-S number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
   c = Common controller number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
   d = IDCU number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
   e = Service group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
   f = Integrated services line unit (ISLU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
   g = Data group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
   h = TMUX number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
   i = Optical interface unit (OIU) number.
   j = OIU protection group number.
   k = OFI side number.

4. SYSTEM RESPONSE
NG = No good. The message was not accepted because the SM is isolated or the equipment does not exist.


5. REFERENCES

Output Message(s):

OP:PM-DNUSCC
OP:PM-IDCU
OP:PM-ISLUCC
OP:PM-TMUX

Input Appendix(es):

APP:RANGES

Other Manual(s):
235-105-110  System Maintenance Requirements and Tools
OP:POSTMORT-CMP

Software Release: 5E14 and later
Command Group: SYSRCVY
Application: 5
Type: Input

1. PURPOSE

Requests a copy of the postmortem for the communication module processor (CMP). The postmortem also prints automatically five minutes after a recovery unless requested by this input request or released by the RLS:POSTMORT input request.

2. FORMAT

OP:POSTMORT,CMP=a,{PRIM|MATE}[,EVENT][,ESCAL][,RCVY][,DCF];

3. EXPLANATION OF MESSAGE

DCF = Execute defensive check failure postmortem dump.
ESCAL = Execute escalation count postmortem dump.
EVENT = Execute event history postmortem dump.
MATE = Mate CMP.
PRIM = Primary CMP.
RCVY = Execute recovery postmortem dump.
a = CMP number. This parameter must be a single number (not a range).

4. SYSTEM RESPONSE

NG = No good. The request was not accepted because an illegal CMP number was specified.
PF = Printout follows. Execution of this input request will cause any of the output messages listed under REFERENCES.

5. REFERENCES

Input Message(s):

RLS:POSTMORT

Output Message(s):

INIT:CMP
REPT:DATA
REPT:STACK-FRAME
REPT:STACK-TRACE
Other Manual(s):
235-105-250  System Recovery Procedures
OP:PSC

Software Release: 5E16(1) and later
Command Group: TRKLN
Application: 5
Type: Input

1. PURPOSE

Requests output of the current day and previous day automatic protection switch count for optical interface unit (OIU) protection groups. The command can requests counts for all OIU protection groups across the entire switch, all OIU protection groups on a switching module (SM), and all protection groups on a single OIU.

Format 1 is used to request protection switch counts for all OIU protection groups across the entire switch.

Format 2 is used to request protection switch counts for all OIU protection groups on an SM or all protection groups on a single OIU.

2. FORMAT

[1] OP:PSC,ALL;

[2] OP:PSC,{SM=a|OIU=a-b};

3. EXPLANATION OF MESSAGE

a = SM number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

b = OIU number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

NG = No good. The input contained an illegal specification.

PF = Printout follows. The request has been accepted and the OP:PSC output message follows.

RL = Retry later. The request has been denied, probably due to system load.

5. REFERENCES

Input Message(s):

OP:FAC

Output Message(s):

OP:FAC
OP:PSC
Input Appendix(es):

APP: RANGES

Other Manual(s):
235-105-220  Corrective Maintenance
OP:PSLT

Software Release: 5E14 and later
Command Group: CCS
Application: 5
Type: Input

1. PURPOSE

Report the status of inhibited or allowed for the periodic signaling link test (PSLT).

2. FORMAT

OP:CCS,PSLT,SM=a,[SET=b][MEMBER=c];

3. EXPLANATION OF MESSAGE

a = CCS global switching module (GSM) number.

b = Link set number (SET). Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

c = Link set member (MEMBER). Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

PF = Printout follows. Followed by the OP:CCS,PSLT output message. Report the status (inhibited or allowed) of the periodic signaling link test (PSLT) for a signaling link(s).

5. REFERENCES

Other Manual(s):
235-190-120 Common Channel Signaling Service Features

Input Appendix(es):

APP:RANGES
**OP:PTRC-A**

**Software Release:** 5E16(1) only  
**Command Group:** TRKLN  
**Application:** 5  
**Type:** Input

1. **PURPOSE**

This input message is used to verify that the specified receiving synchronous transport signal (STS) path terminating equipment (PTE) is connected to the intended transmitting STS PTE.

Format 1 is used for digital networking unit - synchronous optical network (SONET) (DNU-S).

Format 2 is used for optical interface unit (OIU).

2. **FORMAT**

   [1] \[ OP:PTRC,STSFAC=a-b-c-d-e; \]

   [2] \[ OP:PTRC,STS1=a-f-g-h-i; \]

   [3] \[ OP:PTRC,STS3C=a-f-g-h-i; \]

3. **EXPLANATION OF MESSAGE**

   a  = Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

   b  = DNU-S number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

   c  = Data group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

   d  = SONET terminating equipment facility number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

   e  = STS facility number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

   f  = OIU number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

   g  = Protection group (PG) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

   h  = OC3 number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

   i  = STS-1 number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
4. SYSTEM RESPONSE

NG = No good. The input contained an illegal specification.

PF = Printout follows. The request has been accepted and the OP:PTRC output message follows.

RL = Retry later. The request has been denied, probably due to system load.

5. REFERENCES

Output Message(s):

OP : PTRC

Input Appendix(es):

APP : RANGES

Other Manual(s):

235-105-220  Corrective Maintenance

RC/V View(s):

20.12  DIGITAL NETWORKING UNIT SONET FOR STE AND STS (SM2000)
OP:PTRC-B

Software Release: 5E16(2) and later
Command Group: TRKLN
Application: 5
Type: Input

1. PURPOSE

This input message is used to verify that the specified receiving synchronous transport signal (STS) path terminating equipment (PTE) is connected to the intended transmitting STS PTE.

Format 1 is used for digital networking unit - synchronous optical network (SONET) (DNU-S).

Format 2 and 3 are used for optical interface unit (OIU).

2. FORMAT

[1] OP:PTRC,STSFAC=a-b-c-d-e;

[2] OP:PTRC,STS1=a-f-g-h-i;

[3] OP:PTRC,STS3C=a-f-g-j-k;

3. EXPLANATION OF MESSAGE

a = Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

b = DNU-S number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

c = Data group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

d = SONET terminating equipment facility number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

e = STS facility number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

f = OIU number (0-7). Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

g = Protection group (PG) number (0-9). Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

h = OC3 number (1). Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

i = STS-1 number (1-3). Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
j = Optical carrier level 3 concatenated (OC3C) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

k = Synchronous transport signal level 3 concatenated (STS3C) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

NG = No good. The input contained an illegal specification.

PF = Printout follows. The request has been accepted and the OP:PTRC output message follows.

RL = Retry later. The request has been denied, probably due to system load.

5. REFERENCES

Output Message(s):

OP:PTRC

Input Appendix(es):

APP:RANGES

Other Manual(s):

235-105-220 Corrective Maintenance

RC/V View(s):

20.12 DIGITAL NETWORKING UNIT SONET FOR STE AND STS (SM2000)
OP:PTRC-STS FAC

Software Release: 5E14 - 5E15
Command Group: TRKLN
Application: 5
Type: Input

1. PURPOSE

This input message is used to verify that the specified receiving synchronous transport signal (STS) path terminating equipment (PTE) is connected to the intended transmitting STS PTE. This request is used for digital networking unit - synchronous optical network (SONET) (DNU-S).

2. FORMAT

OP:PTRC, STSFAC=a-b-c-d-e;

3. EXPLANATION OF MESSAGE

a = Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

b = DNU-S number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

c = Data group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

d = SONET terminating equipment facility number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

e = STS facility number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

NG = No good. The input contained an illegal specification.

PF = Printout follows. The request has been accepted and the OP:PTRC-STS FAC output message follows.

RL = Retry later. The request has been denied, probably due to system load.

5. REFERENCES

Output Message(s):

OP:PTRC-STS FAC

Input Appendix(es):

APP:RANGES
Other Manual(s):
235-105-220 Corrective Maintenance

RC/V View(s):
20.12 DIGITAL NETWORKING UNIT SONET FOR STE AND STS (SM2000)
54. OP:Q
OP:QNETSTAT

Software Release: 5E14 and later
Command Group: MAINT
Application: 5
Type: Input

1. PURPOSE

Requests a report of the status of quad-link packet switch (QLPS) pipes (QPIPEs), QLPS communication links (QLNKs), and inter-switching module QLNKs (ISMQLNKs) and, optionally, the supporting communication module (CM) hardware.

Format 1 requests a report of the status of all QPIPEs, QLNKs, and ISMQLNKs meeting specified criteria. If no criteria are specified, the status of all out-of-service (OOS) QPIPEs, QLNKs, and ISMQLNKs for both networks will be reported unless the outage is due to a parent unit (family-of-equipment). Output can be restricted (or expanded) by specifying the QLPS network, source and/or destination endpoints, and state qualifiers. If both source and destination are specified, the report will include the status of QPIPEs at both the source and destination, and QLNKs or ISMQLNKs between them. If either source or destination is specified (but not both), the report will include the status of QPIPEs at the specified endpoint, and QLNKs and/or ISMQLNKs to all other endpoints.

Format 2 requests a report of the status of a specific QPIPE, QLNK, or ISMQLNK and the identity and status of all of it's supporting CM hardware.

2. FORMAT

[1] OP:QNETSTAT[,QLPSNW=a][,SRCSM=b|SRCQGP=c-d][,DESTSM=e][,ALL|OOS|NOFE];

[2] OP:QNETSTAT,{MHQPIPE=f-g-h-i|QGPQPIPE=j-k-h-i|QLNK=f-g-h-i-k-j|ISMQLNK=f-g-h-i-l-m};

3. EXPLANATION OF MESSAGE

Note: Refer to the Acronym section of the Input Messages manual for the full expansion of acronyms shown in the format.

ALL = Report status of all equipped QPIPEs, QLNKs, and ISMQLNKs.

NOFE = Report status of OOS QPIPEs, QLNKs, and ISMQLNKs that are not OOS family-of-equipment (FE). This is the default option.

SRCSM = Source SM-2000. Restricts status output to MH QPIPEs, QLNKs, and ISMQLNKs associated with the source SM-2000 and, if specified, a destination SM-2000.

SRCQGP = Source QGP. Restricts status output to QPIPEs and QLNKs associated with the source QGP and, if specified, a destination SM-2000.

a = QLPS network number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.


c = Message switch (MSGS) side of source QGP. Refer to the APP:RANGES appendix in the...
Appendixes section of the Input Messages manual.

d = Source QGP number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

e = Destination SM-2000 number. Restricts status output to QPIPEs, QLNKs, and ISMQLNKs associated with the destination SM-2000 and, if specified, a source QGP or SM-2000. If used with the SRCSM option, the report will include the status of MH QPIPEs for both SM-2000s and the ISMQLNKs between them. If used with the SRCQGP option, the report will include the MH QPIPEs for the destination SM-2000, the QGP QPIPEs for the source QGP, and the QLNKs between the source QGP and destination SM-2000. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

f = Source SM-2000 number associated with the specified MH QPIPE, QLNK, or ISMQLNK. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

g = Source SM-2000's active module controller time slot interchanger (MCTSI) side. The active MCTSI side is reported for informational purposes as part of the MH QPIPE, QLNK, and ISMQLNK identification in output messages. Regardless of the MCTSI side specified, the current active MCTSI will be indicated in the OP QNETSTAT output message.

h = QLPS network associated with the specified QPIPE, QLNK, or ISMQLNK. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

i = Office network and timing complex (ONTC) side associated with the specified QPIPE, QLNK, or ISMQLNK. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

j = MSGS side associated with the specified QGP QPIPE or QLNK. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

k = QGP number associated with the specified QGP QPIPE or QLNK. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

l = Destination SM-2000 number associated with the specified ISMQLNK. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

m = Destination SM-2000's active MCTSI side. Regardless of the MCTSI side specified, the current active MCTSI will be indicated in the OP QNETSTAT output message.

4. SYSTEM RESPONSE

NG = No good. May also include:
- DATA BASE READ FAILURE = A database access to determine whether a specified SM was equipped failed. An assert will fire.
- DESTINATION NOT AN SM2000 = DESTSM is not a SM-2000.
- DYNAMIC DATA READ FAILURE = The dynamic state of a specified unit could not be obtained from the PCD (peripheral configuration database).
- INVALID MSGS SIDE = The MSGS side (as input with the SRCQGP option) is out of range.
- SM UNEQUIPPED = SM is not equipped.
- SOURCE CANNOT BE BOTH QGP AND SM = Both the SRCSM and SRCQGP options were input.
- SOURCE NOT AN SM2000 = SRCSM is not a SM-2000.
UNIT UNEQUIPPED = There are no equipped QLPSs in the office, the specified SRCQGP is not equipped, or the specified QPIPE/QLNK/ISMQLNK is not equipped.

PF = Printout follows. Followed by the OP:QNETSTAT output message.

RL = Retry later. May also include:
- PREVIOUS REQUEST IN PROGRESS = Terminal process already exists for a previous request.

?E = An error occurred while processing the message, but the problem cannot be attributed to a specific field. May also include:
- CANNOT CREATE TERMINAL PROCESS = Attempt to create the terminal process failed. An assert will fire.
- COMMUNICATION ERROR = Deferred maintenance administrator and monitor (DMAM) was unable to communicate with the terminal process.

5. REFERENCES

Output Message(s):

OP:QNETSTAT

Input Appendix(es):

APP:CM-IM-REASON
APP:RANGES

Other Manual(s):
235-105-110 System Maintenance Requirements and Tools
235-105-220 Corrective Maintenance Procedures
235-105-250 System Recovery Procedures

MCC Display Page(s):

115 (CM SUMMARY)
1209 (ONTC 0 & 1)
1240/50 (MSGS 0/1 SUMMARY)
1241/51 (MSGS 0/1 COMMUNITIES 0-1, 8-9)
1380/1 (QLPS NETWORK 0/1 STATUS)
55. OP:R
OP:RCACCESS-A

Software Release: 5E14 only
Command Group: AUTH
Application: 5
Type: Input

1. PURPOSE

Requests verification of permissions for recent change (RC) access from a specified terminal (TTY) associated with the 3B processor or a specified login id (LOGIN) assigned on the administrative services module (ASM).

2. FORMAT

OP:RCACCESS, (LOGIN="a"|TTY="b");

3. EXPLANATION OF MESSAGE

a = Name of a login id assigned on the ASM in the office. Because the login ids may have lower case characters in them it is necessary to surround each id with a pair of quotation marks.

b = Name of a terminal associated with the 3B in the office. Because the terminal names have lower case characters in them it is necessary to surround each name with a pair of quotation marks.

Valid value(s):

<table>
<thead>
<tr>
<th>TTY Number</th>
<th>TTY Name</th>
</tr>
</thead>
<tbody>
<tr>
<td>enter &quot;ttya&quot;</td>
<td>For MCC</td>
</tr>
<tr>
<td>enter &quot;ttyA&quot;</td>
<td>For TTY=26</td>
</tr>
<tr>
<td>(MTTY=0/MTTY=1)</td>
<td>enter &quot;ttyB&quot;</td>
</tr>
<tr>
<td>For TTY=27</td>
<td>(note: &quot;ttyb&quot; is not used)</td>
</tr>
<tr>
<td>enter &quot;ttyC&quot;</td>
<td>For TTY=28</td>
</tr>
<tr>
<td>enter &quot;ttyC&quot;</td>
<td>For TTY=2</td>
</tr>
<tr>
<td>enter &quot;ttyD&quot;</td>
<td>For TTY=29</td>
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<tr>
<td>enter &quot;ttyR&quot;</td>
<td>For TTY=44</td>
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<tr>
<td>enter &quot;ttyS&quot;</td>
<td>For TTY=18</td>
</tr>
<tr>
<td>Enter</td>
<td>TTY</td>
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<tr>
<td>-------</td>
<td>------</td>
</tr>
<tr>
<td>&quot;ttyT&quot;</td>
<td>For TTY=45</td>
</tr>
<tr>
<td>&quot;ttyT&quot;</td>
<td>For TTY=19</td>
</tr>
<tr>
<td>&quot;ttyU&quot;</td>
<td>For TTY=46</td>
</tr>
<tr>
<td>&quot;ttyU&quot;</td>
<td>For TTY=20</td>
</tr>
<tr>
<td>&quot;ttyV&quot;</td>
<td>For TTY=47</td>
</tr>
<tr>
<td>&quot;ttyV&quot;</td>
<td>For TTY=21</td>
</tr>
<tr>
<td>&quot;ttyW&quot;</td>
<td>For TTY=48</td>
</tr>
<tr>
<td>&quot;ttyW&quot;</td>
<td>For TTY=22</td>
</tr>
<tr>
<td>&quot;ttyX&quot;</td>
<td>For TTY=49</td>
</tr>
<tr>
<td>&quot;ttyX&quot;</td>
<td>For SCC ternary</td>
</tr>
<tr>
<td>&quot;ttyY&quot;</td>
<td>For TTY=50</td>
</tr>
<tr>
<td>&quot;ttyY&quot;</td>
<td>For SCC secondary</td>
</tr>
<tr>
<td>&quot;ttyZ&quot;</td>
<td>For TTY=51</td>
</tr>
<tr>
<td>&quot;ttyZ&quot;</td>
<td>For SCC primary</td>
</tr>
</tbody>
</table>

4. SYSTEM RESPONSE

NG = No good. Invalid terminal or login designation.

PF = Printout follows. The request has been received. A printout and a response message will follow.

5. REFERENCES

Input Message(s):

```
SET: RCACCESS
```

Output Message(s):

```
OP: RCACCESS
```

Other Manual(s):

Where ‘x’ is the release-specific version of the document.

235-118-xxx Recent Change Procedures and References Collection
OP:RCACCESS-B
Software Release: 5E15 and later
Command Group: AUTH
Application: 5
Type: Input

1. PURPOSE
Requests verification of permissions for recent change (RC) access from a specified terminal (TTY) associated with
the 3B processor, a specified login id (LOGIN) assigned on the administrative services module (ASM), an Authority
Management Login (AUTHLOGIN), or a Recent Change Security Group (RCSECGRP).

2. FORMAT
OP:RCACCESS, {LOGIN="a"|TTY="b"|AUTHLOGIN="c"|RCSECGRP="d"};

3. EXPLANATION OF MESSAGE

   a = Name of a login id assigned on the ASM in the office. Because the login ids may have lower
case characters in them it is necessary to surround each id with a pair of quotation marks.

   b = Name of a terminal associated with the 3B in the office. Because the terminal names have lower
case characters in them it is necessary to surround each name with a pair of quotation marks.

   c = Name of a login assigned through Authority Management in the office. Because the login ids may
have lower case characters in them, it is necessary to surround each id with a pair of quotation marks. This parameter is associated with a secured feature. Refer to the
SECURED/PROPRIETARY FEATURES portion of the INTRODUCTION section of this manual.

   d = Name of the Recent Change Security Group in the office. Because the RC security group may
have lower case characters in them, it is necessary to surround each group name with a pair of
quotation marks. This parameter is associated with a secured feature. Refer to the
SECURED/PROPRIETARY FEATURES portion of the INTRODUCTION section of this manual.

4. SYSTEM RESPONSE

   NG = No good. Invalid terminal or login designation.

   PF = Printout follows. The request has been received. A printout and a response message will follow.

5. REFERENCES

   Input Message(s):
   SET: RCACCESS

   Output Message(s):
   OP: RCACCESS

Other Manual(s):
Where 'x' is the release-specific version of the document.

235-118-251  Recent Change Procedures
235-118-25x  Recent Change Reference
OP:RCDLY

Software Release: 5E14 and later
Command Group: RCV
Application: 5
Type: Input

1. PURPOSE
Requests that the current telephone activations status of recent change delayed messages (RCDMs) be displayed.

2. FORMAT
OP:RCDLY;

3. EXPLANATION OF MESSAGE
No variables.

4. SYSTEM RESPONSE

PF = Printout follows. Followed by the REPT:RCDLY output message.

5. REFERENCES
Input Message(s):

ALW:RCDLY
INH:RCDLY

Output Message(s):

REPT:RCDLY

Other Manual(s):

Where 'x' is the release-specific version of the document.

235-118-251  Recent Change Procedures
235-118-25x  Recent Change Reference
OP:RCHIST
Software Release: 5E14 and later
Command Group: RCV
Application: 5
Type: Input

1. PURPOSE
Requests the status of a previously entered REPT:RCHIST input message. The input message asked for a report on the history of batch recent changes entered into the delayed release clerk files, or a specific clerk name that was previously entered.

2. FORMAT
OP:RCHIST[,CLERK=a];

3. EXPLANATION OF MESSAGE

a = Clerk name, consisting of no more than eight ASCII characters excluding blanks and special characters.

4. SYSTEM RESPONSE

PF = Printout follows. The request was accepted. Followed by the OP:RCHIST output message.

5. REFERENCES
Input Message(s):
REPT:RCHIST
STP:RCHIST

Output Message(s):
OP:RCHIST
STP:RCHIST

Other Manual(s):
Where ‘x’ is the release-specific version of the document.
235-105-24x Software Release Retrofit
OP:RCRLS

Software Release: 5E14 and later
Command Group: RCV
Application: 5
Type: Input

1. PURPOSE

Requests the status of a previously entered EXC:RCRLS input message.

2. FORMAT

OP:RCRLS[,CLERK=a];

3. EXPLANATION OF MESSAGE

\[ a \quad = \quad \text{Clerk name, consisting of no more than eight ASCII characters excluding blanks and special characters.} \]

4. SYSTEM RESPONSE

PF \quad = \quad \text{Printout follows. The request was accepted. Followed by the OP:RCRLS output message.}

5. REFERENCES

Input Message(s):

EXC:RCRLS
STP:RCRLS

Output Message(s):

EXC:RCRLS
OP:RCRLS
STP:RCRLS

Other Manual(s):

Where ‘x’ is the release-specific version of the document.

235-105-24x \quad \text{Software Release Retrofit}
OP:RCRMV

**Software Release:** 5E14 and later  
**Command Group:** RCV  
**Application:** 5  
**Type:** Input

1. **PURPOSE**

Requests that the status of a previously entered EXC:RCRMV input message be output. This request removes selected recent changes previously entered into the delayed release clerk file.

2. **FORMAT**

OP:RCRMV[,CLERK=a];

3. **EXPLANATION OF MESSAGE**

a = Clerk name, consisting of no more than eight ASCII characters, excluding blanks and special characters.

4. **SYSTEM RESPONSE**

PF = Printout follows. The request was accepted. Followed by the OP:RCRMV output message.

5. **REFERENCES**

**Input Message(s):**

EXC:RCRMV  
STP:RCRMV  

**Output Message(s):**

EXC:RCRMV  
OP:RCRMV  
STP:RCRMV

**Other Manual(s):**

Where ‘x’ is the release-specific version of the document.

235-105-24x  *Software Release Retrofit*
OP:RCSECGRP

Software Release: 5E15 and later
Command Group: AUTH
Application: 5
Type: Input

1. PURPOSE

If the recent change (RC) access for a specified terminal (TTY) associated with the 3B processor, a specified login id (LOGIN) assigned on the administrative services module (ASM), or an Authority Management Login (AUTHLOGIN), this message requests the Recent Change Security Group (RCSECGRP) that it is assigned to. If a RCSECGRP is specified, this message request a list of TTYs, logins and AUTHLOGINS that are assigned to the RCSECGRP. If LIST is specified, this message requests a list of RCSECGRP's in the office. This message is associated with a secured feature (99-5E-7951). Refer to the SECURED/PROPRIETARY FEATURES portion of the INTRODUCTION section of this manual.

2. FORMAT

OP:RCSECGRP,{LOGIN="a"|TTY="b"|AUTHLOGIN="c"|SECGRP="d"|LIST};

3. EXPLANATION OF MESSAGE

a = Name of a login id assigned on the ASM in the office. Because the login ids may have lower case characters in them it is necessary to surround each id with a pair of quotation marks.

b = Name of a terminal associated with the 3B in the office. Because the terminal names have lower case characters in them it is necessary to surround each name with a pair of quotation marks.

c = Name of a login assigned through Authority Management in the office. Because the login ids may have lower case characters in them, it is necessary to surround each id with a pair of quotation marks.

d = Name of the Recent Change Security Group in the office. Because the RC security group may have lower case characters in them, it is necessary to surround each group name with a pair of quotation marks.

4. SYSTEM RESPONSE

NG = No good. Invalid terminal or login designation.

PF = Printout follows. The request has been received. A printout and a response message will follow.

5. REFERENCES

Input Message(s):

SET:RCSECGRP
SET:RCACCESS

Output Message(s):
Other Manual(s):

Where 'x' is the release-specific version of the document.

235-118-251  Recent Change Procedures
235-118-25x  Recent Change Reference
OP:RCSTAT-SM
Software Release: 5E14 and later
Command Group: ODD
Application: 5
Type: Input

1. PURPOSE

Requests the number of recent changes applied in the administrative module (AM), one or more communication module processors (CMPs), and/or one or more switching modules (SMs) since the previous backup of the office-dependent data (ODD). It also reports the percentage of space used by these recent changes in the AM, CMP, SM, and the redundant log files.

2. FORMAT

OP:RCSTAT, {SM=a[&&b]|CMP=c[&&d]|AM|SM=a[&&b],CMP=c[&&d]|SM=a[&&b],AM|CMP=c[&&d],AM|SM=a[&&b],CMP=c[&&d],AM};

3. EXPLANATION OF MESSAGE

AM = Report the number of recent changes logged in the AM.
a = SM number, or the lower limit of a range of SM numbers.
b = Upper limit of a range of SM numbers.
c = CMP number, or the lower limit of a range of CMP numbers.
d = Upper limit of a range of CMP numbers.

4. SYSTEM RESPONSE

NG = No good. The input message is not valid.
PF = Printout follows. Followed by the OP:RCSTAT output message.

5. REFERENCES

Output Message(s):
OP:RCSTAT

Other Manual(s):
235-105-250 System Recovery Procedures
OP:RCUSER

Software Release: 5E14 and later
Command Group: RCV
Application: 5
Type: Input

1. PURPOSE

Requests a report on the active recent change (RC) process that is accessing the office-dependent data (ODD) and the terminal (TTY), the clerk ID in the case of batch RC, associated with the process.

2. FORMAT

OP:RCUSER;

3. EXPLANATION OF MESSAGE

No variables.

4. SYSTEM RESPONSE

PF = Printout follows. The request was accepted. Followed by the OP:RCUSER output message.

5. REFERENCES

Output Message(s):

OP:RCUSER
1. PURPOSE

Requests a report of a specific remote digital test access (RDTA) session or a summary of all currently active RDTA sessions. The information displayed as a result of this request represents the data that is populated in the RLRDTA_DATA relation which resides in the administrative module (AM).

Information corresponding to one specific RDTA session can be accessed by either providing the session number (returned in the EXC:RDTA output message after the connection was setup) or the port under test (PUT). The session number may also be found by executing the OP:RDTA input message to receive information on all sessions (SES=ALL option).

2. FORMAT

\[ \text{OP:RDTA}, \{a \mid \text{SES}=\{u \mid \text{ALL}\}\}[,\text{CH}=v] \];

3. EXPLANATION OF MESSAGE

Note: Refer to the Acronym section of the Input Messages manual for the full expansion of acronyms shown in the format.

\begin{itemize}
  \item **ALL** = Report information pertaining to all active RDTA sessions.
  \item **SES** = Session.
  \item **a** = Port identification. Valid value(s):
  \begin{itemize}
    \item \text{BST}=b-c
    \item \text{DEN}=d-e-f-g
    \item \text{DN}=h
    \item \text{ILEN}=d-i-j-k
    \item \text{LCEN}=d-l-m-n
    \item \text{LCKEN}=d-l-f1-w-x
    \item \text{MLHG}=o-p
    \item \text{INEN}=d-y-j-k
    \item \text{NEN}=d-y-z-a1-b1-c1-d1-e1
    \item \text{OAPO}=b
    \item \text{OPT}=b-c
    \item \text{PKTDN}=h
    \item \text{RTRS}=q-r
    \item \text{TKGHN}=s-t
  \end{itemize}
  \item \text{b} = Operator Service Center number of the BST. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
  \item \text{c} = Relative position number of the BST. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
  \item \text{d} = Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
  \item \text{e} = Digital line and trunk unit (DLTU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
  \item \text{f} = Digital facility interface (DFI) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
\end{itemize}
g = Digital channel number. If this is a DFI-2, channels 1-24 are associated with T1 A and channels 25-48 are associated with facility T1 B. Otherwise there is only one T1 facility (1-48).

h = The DN associated with the ISDN interface port. This parameter can only be used to identify channels associated with digital subscriber lines (DSLs).

i = Integrated digital carrier unit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

j = Remote terminal (RT) number or IDCU digital signal level 1 (DS1) serving PUB43801 number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

k = RT line number or PUB43801 channel. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

l = Integrated services line unit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

m = Line group controller number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

n = Line card number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

o = Multi-line hunt group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

p = Multi-line hunt group member number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

q = Data link relative group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

r = Data link relative member number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

s = Trunk group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

t = Trunk group member number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

u = Session number of the RDTA session for which corresponding RDTA information is requested. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

v = Channel type (valid only for DN and LCEN port identification). Valid value(s):
    B1 = Channel B1.
    D = D-channel (default).

w = Line board number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages Manual.

x = Line circuit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input
Messages Manual.

\( y \) = Digital networking unit - synchronous optical network (SONET) (DNU-S) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages Manual.

\( z \) = Data group (DG) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages Manual.

\( a \) = SONET termination equipment (STE) facility number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages Manual.

\( b \) = Synchronous transport signal (STS) facility number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages Manual.

\( c \) = Virtual tributary group (VTG) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages Manual.

\( d \) = Virtual tributary member (VTM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages Manual.

\( e \) = Digital signal level 0 (DS0) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages Manual.

\( f \) = Line group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages Manual.

4. SYSTEM RESPONSE

\( PF \) = Printout follows. The request has been accepted. Followed by an OP:RDTA output message.

\( RL \) = Retry later. Valid value(s):

- FAILED TO CREATE PROCESS = A system error has occurred. Refer to the TECHNICAL ASSISTANCE section of the INTRODUCTION.
- TOO MANY PROCESSES ACTIVE = The request has been denied, probably due to system load.

5. REFERENCES

Input Message(s):

EXC:RDTA
STP:RDTA
UPD:RDTA
VFY:RDTA

Output Message(s):

EXC:RDTA
OP:RDTA
STP:RDTA
UPD:RDTA
VFY:RDTA
OP:RDTA-B

Software Release: 5E15 only
Command Group: TRKLN
Application: 5
Type: Input

1. PURPOSE

Requests a report of a specific remote digital test access (RDTA) session or a summary of all currently active RDTA sessions. The information displayed as a result of this request represents the data that is populated in the RLRDTA_DATA relation which resides in the administrative module (AM).

Information corresponding to one specific RDTA session can be accessed by either providing the session number (returned in the EXC:RDTA output message after the connection was setup) or the port under test (PUT). The session number may also be found by executing the OP:RDTA input message to receive information on all sessions (SES=ALL option).

2. FORMAT

OP:RDTA,{a|SES={u|ALL}}[,CH=v];

3. EXPLANATION OF MESSAGE

Note: Refer to the Acronym section of the Input Messages manual for the full expansion of acronyms shown in the format.

ALL
= Report information pertaining to all active RDTA sessions.

SES
= Session.

a
= Port identification. Valid value(s):

BST=b-c
DEN=d-e-f-g
DN=h
ILEN=d-i-j-k
LCEN=d-l-m-n
LCKEN=d-l-f1-w-x
MLHG=o-p
INEN=d-y-j-k
NEN=d-y-z-a1-b1-c1-d1-e1
OAPO=b
OPT=b-c
PKTN=h
RTRS=q-r
TKGMN=s-t
PLTEN=d-g1-h1-l1-j1

b
= Operator Service Center number of the BST. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

c
= Relative position number of the BST. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
d = Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

e = Digital line and trunk unit (DLTU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

f = Digital facility interface (DFI) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

g = Digital channel number. If this is a DFI-2, channels 1-24 are associated with T1 A and channels 25-48 are associated with facility T1 B. Otherwise there is only one T1 facility (1-48).

h = The DN associated with the ISDN interface port. This parameter can only be used to identify channels associated with digital subscriber lines (DSLs).

i = Integrated digital carrier unit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

j = Remote terminal (RT) number or IDCU digital signal level 1 (DS1) serving PUB43801 number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

k = RT line number or PUB43801 channel. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

l = Integrated services line unit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

m = Line group controller number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

n = Line card number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

o = Multi-line hunt group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

p = Multi-line hunt group member number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

q = Data link relative group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

r = Data link relative member number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

s = Trunk group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

t = Trunk group member number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

u = Session number of the RDTA session for which corresponding RDTA information is requested. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

v = Channel type (valid only for DN and LCEN port identification). Valid value(s):

   B1 = Channel B1.
D = D-channel (default).

w = Line board number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages Manual.

x = Line circuit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages Manual.


z = Data group (DG) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages Manual.

a1 = SONET termination equipment (STE) facility number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages Manual.

b1 = Synchronous transport signal (STS) facility number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages Manual.

c1 = Virtual tributary group (VTG) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages Manual.

d1 = Virtual tributary member (VTM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages Manual.

e1 = Digital signal level 0 (DS0) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages Manual.

f1 = Line group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages Manual.

g1 = Peripheral control and timing (PCT) line and trunk unit (PLTU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages Manual.

h1 = PCT facility interface (PCTFI) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages Manual.

i1 = Tributary number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages Manual.

j1 = Channel number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages Manual.

4. SYSTEM RESPONSE

PF = Printout follows. The request has been accepted. Followed by an OP:RDTA output message.

RL = Retry later. Valid value(s):
  - FAILED TO CREATE PROCESS = A system error has occurred. Refer to the TECHNICAL ASSISTANCE portion of the INTRODUCTION section of the Input Messages manual.
5. REFERENCES

Input Message(s):

EXC:RDTA
STP:RDTA
UPD:RDTA
VFY:RDTA

Output Message(s):

EXC:RDTA
OP:RDTA
STP:RDTA
UPD:RDTA
VFY:RDTA

Input Appendix(es):

APP:RANGES

Other Manual(s):

235-105-110  System Maintenance Requirements and Tools
235-190-104  ISDN Feature Description
235-900-341  National ISDN Basic Rate Interface Specification
OP:RDTA-C

Software Release: 5E16(1) and later
Command Group: TRKLN
Application: 5
Type: Input

1. PURPOSE

Requests a report of a specific remote digital test access (RDTA) session or a summary of all currently active RDTA sessions. The information displayed as a result of this request represents the data that is populated in the RLRDTA_DATA relation which resides in the administrative module (AM).

Information corresponding to one specific RDTA session can be accessed by either providing the session number (returned in the EXC:RDTA output message after the connection was setup) or the port under test (PUT). The session number may also be found by executing the OP:RDTA input message to receive information on all sessions.

2. FORMAT

OP:RDTA,{a|SES={u|ALL}}[,CH=v];

3. EXPLANATION OF MESSAGE

Refer to the Acronym section of the Input Messages manual for the full expansion of acronyms shown in the format.

ALL = Report information pertaining to all active RDTA sessions.
SES = Session.

a = Port identification. Valid value(s):
  BST=b-c
  DEN=d-e-f-g
  DN=h
  ILEN=d-i-j-k
  INEN=d-y-j-k
  LCEN=d-l-m-n
  LCKEN=d-l-f^1-w-x
  MLHG=o-p
  NEN=d-y-z-a^1-b^1-c^1-d^1-e^1
  OAPO=b
  OPT=b-c
  PKTLDN=h
  PLTEN=d-g^1-h^1-i^1-j^1
  RTRS=q-r
  TKGMN=s-t
  OIUEN=d-k^1-l^1-a^1-b^1-c^1-d^1-e^1

b = Operator service center number of the BST. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

c = Relative position number of the BST. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
d = Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

e = Digital line and trunk unit (DLTU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

f = Digital facility interface (DFI) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

g = Digital channel number. If this is a DFI-2, channels 1-24 are associated with T1 A and channels 25-48 are associated with facility T1 B. Otherwise there is only one T1 facility (1-48).

h = The DN associated with the ISDN interface port. This parameter can only be used to identify channels associated with digital subscriber lines (DSLs).

i = Integrated digital carrier unit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

j = Remote terminal (RT) number or IDCU digital signal level 1 (DS1) serving PUB43801 number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

k = RT line number or PUB43801 channel. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

l = Integrated services line unit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

m = Line group controller number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

n = Line card number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

o = Multi-line hunt group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

p = Multi-line hunt group member number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

q = Data link relative group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

r = Data link relative member number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

s = Trunk group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

t = Trunk group member number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

u = Session number of the RDTA session for which corresponding RDTA information is requested. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

v = Channel type (valid only for DN and LCEN port identification). Valid value(s):
B1 = Channel B1.
D = D-channel (default).

w = Line board number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages Manual.

x = Line circuit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages Manual.


z = Data group (DG) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages Manual.

a\(^1\) = SONET termination equipment (STE) facility number. For OIU-NAR, it is OC-3. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages Manual.

b\(^1\) = Synchronous transport signal (STS) facility number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages Manual.

c\(^1\) = Virtual tributary group (VTG) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages Manual.

d\(^1\) = Virtual tributary member (VTM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages Manual.

e\(^1\) = Digital signal level 0 (DS0) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages Manual.

f\(^1\) = Line group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages Manual.

g\(^1\) = Peripheral control and timing (PCT) line and trunk unit (PLTU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages Manual.

h\(^1\) = PCT facility interface (PCTFI) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages Manual.

i\(^1\) = Tributary number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages Manual.

j\(^1\) = Channel number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages Manual.

k\(^1\) = Optical Interface Unit (OIU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages Manual.

l\(^1\) = Protection Group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages Manual.

4. SYSTEM RESPONSE
PF = Printout follows. The request has been accepted. Followed by an OP:RDTA output message.

RL = Retry later. May also include:
- FAILED TO CREATE PROCESS = A system error has occurred. Refer to the TECHNICAL ASSISTANCE portion of the INTRODUCTION section of the Input Messages manual.
- TOO MANY PROCESSES ACTIVE = The request has been denied, probably due to system load.

5. REFERENCES

Input Message(s):

EXC:RDTA
STP:RDTA
UPD:RDTA
VFY:RDTA

Output Message(s):

EXC:RDTA
OP:RDTA
STP:RDTA
UPD:RDTA
VFY:RDTA

Input Appendix(es):

APP:RANGES

Other Manual(s):
235-105-110 System Maintenance Requirements and Tools
235-190-104 ISDN Feature Description
235-900-341 National ISDN Basic Rate Interface Specification
**OP:REG**

Software Release: 5E14 and later  
Command Group: SM  
Application: 5  
Type: Input

1. **PURPOSE**

Requests that the contents of the error registers of the specified hardware unit be printed. This is used only for T1 error registers on digital facility interfaces (DFIs).

Format 1 is used to request the contents of registers on a digital facility interface (DFI), a remote digital facility interface (RDFI), or a host digital facility interface (HDFI). Format 2 is used only with a SLC® digital facility interface (SDFI). Format 3 is used only with a remote integrated services line unit (RISLU) digital facility interface (DFIH).

2. **FORMAT**

   [1] \(\text{OP:REG,}\{\text{DFI|RDFI|HDFI}\}=a-b-c;\)

   [2] \(\text{OP:REG, SDFI}=a-d-e;\)

   [3] \(\text{OP:REG, DFIH}=a-f-g;\)

3. **EXPLANATION OF MESSAGE**

   a = Switching module (SM) number.

   b = Digital line and trunk unit (DLTU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

   c = DFI number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

   d = Digital carrier line unit (DCLU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual. (for SDFI only).

   e = SDFI number (for SDFI only). Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

   f = RISLU DLTU number (for RISLU only). Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

   g = DFIH number (for RISLU only). Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. **SYSTEM RESPONSE**

   NG = No good. The request was not accepted because:
   - An illegal SM number was specified.
   - An illegal DLTU number was specified.
   - An illegal DCLU number was specified.
   - An illegal DFI number was specified.
PF = Printout follows. Followed by the OP:REG output message.

RL = Retry later. Communication lost to the specified SM.

5. REFERENCES

Output Message(s):

INIT:REG
OP:REG

Input Appendix(es):

APP:RANGES

Other Manual(s):
235-105-220 Corrective Maintenance
OP:RELSPACE

Software Release: 5E14 and later  
Command Group: ODD  
Application: 5  
Type: Input

1. PURPOSE

Requests a report of the size of a relation residing on an operational processor or range of processors.

The size of the relation refers to all memory allocated to the relation, including head pages, data pages and intermediate data pages. This message does not report the number of tuples in the relation, but only the amount of memory allocated to the relation at the time of request.

2. FORMAT

OP:RELSPACE,REL=a,PCRNO=b[&c];

3. EXPLANATION OF MESSAGE

a = Relation name. The relation name should be in capital letters and match the relation name dictionary entry exactly as shown in Translations Data Manual or Dynamic Data Manual. The relation name should be enclosed in double quotes.

b = Processor number, or lower limit of a range of processor numbers.

c = Upper limit of a range of processor numbers.

4. SYSTEM RESPONSE

NG = No good. The input request is not valid.

PF = Printout follows. Request was accepted and is followed by the OP:RELSPACE output message.

RL = Retry later. The request was acceptable but the AM terminal process could not be created at this time. This means the switch is probably in trouble. Try the input message when the switch returns to an operable state.

5. REFERENCES

Output Message(s):

OP:RELSPACE

Other Manual(s):

Where ‘x’ is the release-specific version of the document.

235-600-10x Translations Data
235-600-20x Dynamic Data
OP:REX-CM-SM
  Software Release: 5E14 and later
  Command Group: MAINT
  Application: 5
  Type: Input

1. PURPOSE

Requests the summary of one or all valid test types of routine exercise (REX) for the hardware in the communication module (CM) and all switching modules (SMs) or in the CM or in an SM.

2. FORMAT

  OP:REX[,CM|,SM=a][,b];

3. EXPLANATION OF MESSAGE

  a = SM number.

  b = REX test type whose summary is to be printed (default is to print the summary of all valid test types for the module). Valid value(s):
     DGN = Print the summary of diagnostic tests.
     ELS = Print the summary of electronic loop segregation tests. This is not a valid test type for the CM.
     FAB = Print the summary of fabric exerciser tests of grids. This is not a valid test type for the CM.

  Note: If neither CM nor SM is specified, the hardware test results in the CM and all of the SMs are retrieved.

4. SYSTEM RESPONSE

  NG = No good. The request was not a valid entry.

  PF = Printout follows. Request is valid and output message will follow.

  RL = Retry later. SM is in an abnormal state. The request cannot be executed now.

5. REFERENCES

Output Message(s):

  OP:REX-DGN-FAB
  OP:REX-ELS

MCC Display Page(s):

  1280 [REX STATUS (SM)]
  1290 [REX STATUS (CM)]
OP:REXINH

**Software Release:** 5E14 and later
**Command Group:** MAINT
**Application:** 5,3B
**Type:** Input

1. **PURPOSE**

Requests the status of routine exercises (REX) in a specific module. Applications may add additional hardware units which may be reported by this input message.

Format 1 requests a report of the inhibit status of hardware in the communications module (CM) and all operational switching modules (SMs).

Format 2 requests a list of all the administrative module (AM) hardware units that have REX temporarily inhibited by means of the INH:REX or INH:DMQ input messages. Requests AM and application hardware communities that have REX permanently inhibited by a field in the equipment configuration database (ECD). The specific deferred maintenance queue (DMQ) inhibits may be verified by using the OP:DMQ input message.

Format 3 requests a report of the SM or SMs for which routine exercises are currently inhibited by means of the INH:REX-AM-SM or INH:REX-CM-SM input message. This request shows whether the test types for a module have been inhibited or allowed, and if allowed, if that test is in progress (IP).

Format 4 requests a report of the CM for which routine exercises are currently inhibited by means of the INH:REX-CM-SM input message. This request shows whether the test types for a module have been inhibited or allowed, and if allowed, if that test is IP. By using the UNITS option of the input message requests a report of the units which are currently inhibited for REX in a CM.

Format 5 requests a report of the units which are currently inhibited for REX in the SM.

2. **FORMAT**

   [1] OP:REXINH;
   [3] OP:REXINH,SM=a[&&b];
   [4] OP:REXINH,CM[,UNITS];

3. **EXPLANATION OF MESSAGE**

   **PERM** = Requests a list of permanent REX inhibits.
   
   **a** = SM number or the lower limit of a range of SM numbers.
   
   **b** = Upper limit of a range of SM numbers.

4. **SYSTEM RESPONSE**

   **OK** = Good. Request is valid and accepted.
PF = Printout follows. Formats 1, 3, 4 and 5 are followed by the OP:REXINH-SLB output message. Format 2 is followed by the OP:REXINH output message.

RL = Retry later. Cannot read ECD unit control block (UCB). Unit that the information was requested on is in an abnormal state. The request cannot be executed now.

5. REFERENCES

Input Message(s):

ALW:DMQ
ALW:REX
ALW:REX-CM-SM
INH:DMQ
INH:REX
INH:REX-AM-SM
INH:REX-CM-SM
OP:DMQ

Output Message(s):

OP:DMQ
OP:REXINH
OP:REXINH-SLB

Other Manual(s):

Where 'x' is the release-specific version of the document.

235-105-210 Routine Operations and Maintenance
235-600-30x ECD/SG Data Base
OP:RG1AUD
Software Release: 5E14 and later
Command Group: CCS
Application: 5,CNI
Type: Input

1. PURPOSE
Provides the ability to obtain status of a CNI ring 1 audit.

2. FORMAT
OP:RG1AUD

3. EXPLANATION OF MESSAGE
No variables.

4. SYSTEM RESPONSE
PF = The request was received and will be processed. A printout will follow giving either a termination report or termination report plus the results of the work initiated by the input message.

5. REFERENCES
Input Message(s):
EXC:RG1AUD
STOP:RG1AUD

Output Message(s):
EXC:RG1AUD
OP:RG1AUD
REPT:RG1AUD
STOP:RG1AUD
OP:RING

Software Release: 5E14 and later
Command Group: CCS
Application: 5
Type: Input

1. PURPOSE

Requests status information (Format 1) or generic information (Format 2) about a particular node, a group of nodes, or all nodes on a particular group.

2. FORMAT

[1] OP:RING[,RPCNa=0|,LNa=b|,GRP=a][::SUM|::DETD[=ALL]];

[2] OP:RING,{RPCNa=0|LNa=b}:GEN;

3. EXPLANATION OF MESSAGE

ALL = Report detailed status of the ring. All IUNs are printed.
DETD = Report detailed status of the ring. Only equipped interprocess message switch (IMS) user nodes (IUNs) are printed.
GEN = Report generic information.
SUM = Report summary status information on the ring. This is the default value.
a = Ring node (RN) group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
b = Position of the node in the RN group. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

PF = Printout follows.

5. REFERENCES

Output Message(s):
OP:RING

Input Appendix(es):
APP:RANGES

Other Manual(s):
235-200-115 CNI Common Channel Signaling

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MCC Display Page(s):
118     CNI RING STATUS
1520    RING NODE STATUS
OP:RPC-SM

**Software Release:** 5E15 and later
**Command Group:** TRKLN
**Application:** 5
**Type:** Input

1. PURPOSE

Requests the status of the routine port conditioning (RPC) for a specified SM.

2. FORMAT

   OP:RPC;SM=a;

3. EXPLANATION OF MESSAGE

   a = Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

   PF = Printout follows. The request has been accepted. Followed by the OP:RPC-SM output message.
   RL = Retry later. The request has been denied, probably due to system load.

5. REFERENCES

   **Output Message(s):**
   
   OP:PRC-SM

   **Input Appendix(es):**
   
   APP:RANGES
OP:RPCU

Software Release: 5E14 and later
Command Group: TRKLN
Application: AEWNC
Type: Input

1. PURPOSE

Requests a list of alarmed radio port controller units (RPCUs) and their alarm levels. The alarm level is based on the number of digital subscriber lines (DSLs) that are out-of-service (OOS) for that RPCU. The STP:RPCU input message can be used to stop this report.

2. FORMAT

OP:RPCU,ALARM[,SM=a[&c]]; 

3. EXPLANATION OF MESSAGE

a = Switching module (SM) number, or the lower limit of a range of SMs.

b = Upper limit of a range of SMs.

Note: When a SM is not specified, the message defaults to all SMs. Data is only printed for those SMs that are assigned and have RPCUs in an alarm condition. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual for valid SM values.

4. SYSTEM RESPONSE

NG = The input message is not valid.

PF = Printout follows. Followed by the OP:RPCU output message.

RL = Retry later. May also include:
   - TOO MANY PROCESSES ACTIVE The request has been denied, probably due to system load.
   - FAILED TO CREATE PROCESS A system error has occurred in executing the OP:RPCU input message.

5. REFERENCES

Input Message(s):

STP:RPCU

Output Message(s):

OP:RPCU
Input Appendix(es):

APP : RANGES

MCC Display Page(s):

107 (CIRCUIT LIMIT)

Other Manual(s):

230-701-100  Air Extension℠ Reference Manual
230-701-120  Air Extension℠ User’s Guide
OP:RT-ALM-ALL

Software Release: 5E14 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Requests a report of the current off-normal states and alarms for integrated TR008/TR303 remote terminals (RT) in the office, either as a summary or a separate report for each RT. TR008 RTs can be the SLC® 96, Series 5 Feature Package B, and Enhanced B. TR303 RTs can be the Series 5 feature package 303G.

2. FORMAT

OP:RT, {ALM[,NOPRINT] | ALL};

3. EXPLANATION OF MESSAGE

**ALL** = Print a status message (output message OP:RT-SID) for each integrated TR008/TR303 RT in the office, whether it has active alarms or not.

**ALM** = Print a summary (output message OP:RT-ALARM) of the active alarms for the off-normal RTs in the office.

**NOPRINT** = The NOPRINT option is only valid with OP:RT-ALM. This option inhibits the "NO ACTIVE ALARMS" response when there are no active alarms for the RTs in the office.

4. SYSTEM RESPONSE

**NG** = No good. The request has been denied. The message form is valid, but the request conflicts with current status. May also include:
- **NO RT'S FOUND** = There are no integrated TR008/TR303 RTs in the office data base.

**PF** = Printout follows. The request was accepted and is followed by OP:RT-ALL, OP:RT-SID-SNA or the OP:RT-ALARM output message.

**RL** = Retry later. May also include:
- **CANNOT CREATE TERMINAL PROCESS** = The request cannot be executed now due to unavailable system resources necessary for creating a terminal process.

5. REFERENCES

Input Message(s):

OP:RT-SID-LRT

Output Message(s):

OP:RT-ALARM
OP:RT-ALL
OP:RT-SID-SNA

MCC Display Page(s):

1150,y,x (SM X - DCLU Y)
13zy,x (SM X - DCLU Y RT Z)
1870,y,x (SM X - IDCU Y FACILITY)
1880,y,zz,x (SM X - IDCU Y RT ZZ)
1511,x (DNU-S FACILITY MAINTENANCE)
1512,x (DNU-S FACILITY APPLICATION)
1660,xxxx (TR303 REMOTE TERMINAL)
**OP:RT-CHAN**

Software Release: 5E14 and later  
Command Group: SM  
Application: 5  
Type: Input

1. **PURPOSE**

Requests that information describing the configuration of the embedded operations channel (EOC) and timeslot management channel (TMC) for the specified remote terminal (RT) be displayed. The output will identify the EOC and TMC channels, the associated terminal endpoint identifier (TEI), and its multi-frame status.

This output is useful in identifying the current configuration of the EOC and TMC.

2. **FORMAT**

```
OP:RT,CHAN,{SID[=a] | IDCURT=b-c-d | DNUSRT=b-e-d};
```

3. **EXPLANATION OF MESSAGE**

- **a** = Site identification number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
- **b** = Switching module (SM) number.
- **c** = IDCU number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
- **d** = Local RT number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
- **e** = DNU-S number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. **SYSTEM RESPONSE**

- **NG** = No good. The request has been denied. The message is valid but the request conflicts with current status. May also include:
  - **NO RT's FOUND** = The message format is valid, but there are no integrated RTs in the office database.
  - **UNIT DOES NOT EXIST** = The request has been denied. The message format is valid, but the requested RT does not exist in the database.

- **PF** = Printout follows. Followed by the OP:RT-CHAN output message.

- **RL** = Retry later. The request cannot be executed now due to unavailable system resources.

5. **REFERENCES**

Output Message(s):
OP: RT-CHAN

Input Appendix(es):

APP: RANGES

Other Manual(s):
235-105-110 System Maintenance Requirements and Tools
235-105-220 Corrective Maintenance

MCC Display Page(s):
188xyy (IDCU REMOTE TERMINAL)
OP:RT-FACOFFN
Software Release: 5E14 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE
Requests the value of the switching module (SM) status indicator (SET or CLEARED). Specifically, if the status is SET, the SM status will be updated to "RT PLS" (remote terminal (RT) protection line switch) when a T1 facility goes on protection, or to "CKT OOS" (circuit out-of-service) when a T1 facility goes OOS.

2. FORMAT
OP:RT,FACOFFN;

3. EXPLANATION OF MESSAGE
No variables.

4. SYSTEM RESPONSE
PF = Printout follows. The request was accepted. Followed by the OP:RT-FAC-OFF output message.
RL = Retry later. The system failed to read a database global parameter.

5. REFERENCES
Input Message(s):
SET:RT-FACOFFN
CLR:RT-FACOFFN

Output Message(s):
OP:RT-FAC-OFF

Other Manual(s):
235-105-110 System Maintenance Requirements and Tools
235-105-220 Corrective Maintenance
OP:RT-PROV

**Software Release:** 5E14 and later
**Command Group:** TRKLN
**Application:** 5
**Type:** Input

1. **PURPOSE**

Requests a status message of the provisionable elements of a remote terminal (RT) terminating on an IDCU or DNUS. The message also reports the current provisioning report inhibit status for the RT and, if any, the preemptable client currently being served by provisioning.

This request should not be used when the PROVISION RT field in RC/V View 18.15 shows N (NO). The 5ESS® switch is then not responsible for RT provisioning and does not maintain the data reported as a result of this request.

2. **FORMAT**

\[ \text{OP:RT,PROV}, \{ \text{SID} = a \mid \text{IDCURT|DNUS} = b-c-d \}; \]

3. **EXPLANATION OF MESSAGE**

\[ \begin{aligned}
\text{a} & \quad = \text{Site identification (SID) number of the RT. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.} \\
\text{b} & \quad = \text{Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.} \\
\text{c} & \quad = \text{Unit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.} \\
\text{d} & \quad = \text{Local RT (LRT) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.}
\end{aligned} \]

4. **SYSTEM RESPONSE**

\[ \begin{aligned}
\text{NG} & \quad = \text{No good. May also include:} \\
& \quad \quad \text{NO TR303 RT found} = \text{The request has been denied. The message is valid, but the specified RT is not a TR303 RT.} \\
& \quad \quad \text{UNIT DOES NOT EXIST} = \text{The request has been denied. The message is valid, but the requested RT does not exist in the database.}
\end{aligned} \]

\[ \begin{aligned}
\text{PF} & \quad = \text{Printout follows. Followed by the OP:RT-PROV output message.}
\end{aligned} \]

\[ \begin{aligned}
\text{RL} & \quad = \text{Retry later. May also include:} \\
& \quad \quad \text{CANNOT CREATE TERMINAL PROCESS} = \text{The request cannot be executed now due to unavailable system resources for creating a terminal process.}
\end{aligned} \]

5. **REFERENCES**
Input Message(s):

EXC:RT-PROV

Output Message(s):

EXC:RT-PROV
OP:RT-PROV
REPT:RT-PROV

Input Appendix(es):

APP:RANGES

Other Manual(s):
235-105-110 System Maintenance Requirements and Tools

RC/V View(s):

18.15 (REMOTE TERMINAL)
OP:RT-REPT

Software Release: 5E14 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Requests the current status of the printing of remote terminal (RT) report messages at the Master Control Center (MCC) and the Switching Control Center (SCC). This message is applicable for RTs terminating on an integrated digital carrier unit (IDCU) or a digital carrier line unit (DCLU) or a digital networking unit - synchronous optical network (DNU-S).

2. FORMAT

OP:RT,REPT;

3. EXPLANATION OF MESSAGE

No variables.

4. SYSTEM RESPONSE

NG = No good. The request has been denied. The message is valid but the request conflicts with current status.

PF = Printout follows. The request was accepted. Followed by the OP:RT-REPT output message.

5. REFERENCES

Input Message(s):

ALW:RT-REPT
INH:RT-REPT

Output Message(s):

OP:RT-REPT

Other Manual(s):

235-105-110 System Maintenance Requirements and Tools
235-105-220 Corrective Maintenance
OP:RT-SID-LRT

Software Release: 5E14 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Requests a report of the current off-normal states and alarms for one or more integrated TR008/TR303 remote terminals (RT) in the office. TR008 RTs can be the SLC® 96, Series 5 Feature Package B, and Enhanced B. TR303 RTs can be the Series 5 feature package 303G.

2. FORMAT

OP:RT, {SID[=a[&&b]] | DCLURT=c-d-e | IDCURT=c-d-e | DNUSRT=c-d-e};

3. EXPLANATION OF MESSAGE

a  = Site identification (SID) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

b  = Upper range of the SID number when requesting status of more than one RT. When the SID number is not entered, status messages will be output for each integrated TR008/TR303 RT in the office. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

c  = Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

d  = Digital carrier line unit (DCLU) or integrated digital carrier unit (IDCU) number or digital networking unit - synchronous optical network (DNU-S) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

e  = Local RT (LRT) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

NG  = No good. The request has been denied. The message form is valid, but the request conflicts with current status. May also include:
    - NO RT'S FOUND = There are no integrated TR008/TR303 RTs in the office database.
    - UNIT DOES NOT EXIST = The requested RT does not exist in the database.

PF  = Printout follows. The request was accepted and is followed by the OP:RT-SID-LRT output message.

RL  = Retry later. May also include:
    - CANNOT CREATE TERMINAL PROCESS = The request cannot be executed now due to unavailable system resources necessary for creating a terminal process.
5. REFERENCES

Input Message(s):

OP:RT-ALM-ALL

Output Message(s):

OP:RT-ALARM
OP:RT-ALL
OP:RT-SID-LRT
OP:RT-SID-SNA

Input Appendix(es):

APP:RANGES

MCC Display Page(s):

1150,x (DCLU)
13z0,x (DCLU Remote Terminal)
1870,y,x (IDCU FACILITY)
1880,x,yy (IDCU REMOTE TERMINAL)
1511,x (DNU-S FACILITY MAINTENANCE)
1512,x (DNU-S FACILITY APPLICATION)
1660,xxxx (TR303 REMOTE TERMINAL)
OP:RTCD

Software Release: 5E14 and later
Command Group: MAINT
Application: 5
Type: Input

1. PURPOSE
Requests a printout of the global billing switching module (SM) number and the status of the real time call detail (RTCD) office option.

2. FORMAT

OP:RTCD;

3. EXPLANATION OF MESSAGE
No variables.

4. SYSTEM RESPONSE

PF = Printout follows. An OP:RTCD output message will follow in response to the request.

5. REFERENCES
Output Message(s):

OP:RTCD
OP:RTITRC

Software Release: 5E14 and later
Command Group: TRACE
Application: 5
Type: Input

1. PURPOSE

Requests output of a complete routing pattern based on input information. Input may consist of a starting routing index (RTI) (Format 1) or a range of digits plus a switching module (SM) number, a trunk group (TG), and optional member number (Format 2) or a range of digits plus a digit analysis selector (DAS) and SM number (Format 3).

The routing information extracted consists of the RTI, the TG, and the next RTI (NRTI). For each RTI or for each valid digit string, up to ten RTI, TG, and NRTI patterns will be output. The information derived is output to a UNIX® RTR operating system file.

2. FORMAT

[1] OP:RTITRC,RTI=a;
[3] OP:RTITRC,SM=f,DAS=g,START=d,END=e;

3. EXPLANATION OF MESSAGE

a = Starting routing index of routing pattern to be verified.
b = Incoming trunk group number of the trunk whose translations are to be verified.
c = Member of the trunk group whose translations are to be verified. If not specified, the first assigned member from 0 - 9 is used. If there is no member 0 - 9, the input message fails.
d = The lower limit of a range of digits to be used to verify the routing pattern (0-9999999999). These represent the dialed digits in the case of a line call or the incoming digits in the case of a trunk call. This value may consist of one to ten digits.

If the starting digit string is longer than the ending digit string, the ending digit string will be expanded with trailing zeroes up to the length of the starting digit string.
e = The upper limit of a range of digits to be used to verify the routing pattern (0-9999999999). These represent the dialed digits in the case of a line call or the incoming digits in the case of a trunk call. This value may consist of one to ten digits. The upper limit of the range must be equal to or higher than the lower limit. Trailing zeroes are optional.
f = SM number to be used to verify the routing pattern.
g = Digit analysis selector (DAS) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

NG = No good. Valid value(s):
PF

= Printout follows. A message will be sent to the read-only printer (ROP) giving the status of the input message and any output files associated with it. The OP: DIGTRC output will be sent to a UNIX® RTR file. Any errors encountered will be sent to an error log file.

RL

= Retry later. Valid value(s):
   - CANNOT ATTACH AM ODD = The RTITRC process was unable to access the administrative module (AM) office-dependent data (ODD).
   - CANNOT CREATE ERROR FILE = An error log file could not be created under /updtmp. Remove unneeded files from that directory to leave space for a new file.
   - CANNOT CREATE OUTPUT FILE = An output file could not be created under /updtmp. Remove unneeded files from that directory to leave space for a new file.
   - UNABLE TO OPEN LINK TO SMs = The RTITRC process was unable to open a communications link to the SMs in order to access SM ODD.

5. REFERENCES

Input Message(s):

OP: DIGTRC
DUMP: F-ALL

Output Message(s):

REPT: OP-RTITRC

Other Manual(s):

Where ‘x’ is the release-specific version of the document.

235-105-220 Corrective Maintenance
235-118-251 Recent Change Procedures
235-118-25x Recent Change Reference
235-600-11x Translations Data
OP:RTRACK

Software Release: 5E14 and later
Command Group: CCS
Application: CNI
Type: Input

1. PURPOSE

Requests that the current status of the ring tracker mode be reported.

2. FORMAT

OP:RTRACK;

3. EXPLANATION OF MESSAGE

No variables.

4. SYSTEM RESPONSE

IP = In progress.
NG = No good. The request was not accepted; reason will follow.
PF = Printout follows. Followed by an OP:RTRACK output message.
RL = Retry later.

5. REFERENCES

Input Message(s):

ALW:RTRACK
EXC:RTRACK
INH:RTRACK
STOP:RTRACK

Output Message(s):

ALW RTRACK
EXC RTRACK
INH RTRACK
OP RTRACK
REPT RING CFR
STOP RTRACK
OP:RUTIL

Software Release: 5E12 and later
Command Group: SFTUTIL
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Requests an output of the status of all the break points in the specified node. The user is informed about the result of this operation.

WARNING: Incorrect use of this input message may interrupt operation of a node on the CNI ring or the whole CNI ring.

2. FORMAT

OP:RUTIL=a-b,AP;

3. EXPLANATION OF MESSAGE

AP = Attached processor.

a = Group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

b = Member number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

PF = Printout follows. Followed by the OP:RUTIL output message.

5. REFERENCES

Input Message(s):

ALW:RUTIL
ALW:RUTILFLAG
CLR:RUTIL
CLR:RUTILFLAG
DUMP:RUTIL
INH:RUTIL
INH:RUTILFLAG
LOAD:RUTIL
OP:RUTILFLAG
WHEN:RUTIL
Output Message(s):

ALW: RUTIL
ALW: RUTILFLAG
CLR: RUTIL
CLR: RUTILFLAG
DUMP: RUTIL
INH: RUTIL
INH: RUTILFLAG
LOAD: RUTIL
OP: RUTIL
REPT: RUTIL
WHEN: RUTIL

Input Appendix(es):

APP: RANGES

Other Manual(s):
235-105-110  *System Maintenance Requirements and Tools*
OP:RUTILFLAG

Software Release: 5E12 and later
Command Group: SFTUTIL
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Requests an output of the status of the specified break point in the specified common network interface (CNI) ring node. The user is informed about the result of this operation.

WARNING: Incorrect use of this input message may interrupt operation of a node on the CNI ring or the whole CNI ring.

2. FORMAT

OP:RUTILFLAG=a-b,AP:BP=c;

3. EXPLANATION OF MESSAGE

AP = Attached processor.

BP = Break point.

a = Group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

b = Member number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

c = Specific break point to be output. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

PF = Printout follows. Followed by the OP:RUTILFLAG output message.

5. REFERENCES

Input Message(s):

ALW:RUTIL
ALW:RUTILFLAG
CLR:RUTIL
CLR:RUTILFLAG
DUMP:RUTIL
INH:RUTIL
INH:RUTILFLAG
LOAD: RUTIL
OP: RUTIL
WHEN: RUTIL

Output Message(s):
ALW: RUTIL
ALW: RUTILFLAG
CLR: RUTIL
CLR: RUTILFLAG
DUMP: RUTIL
INH: RUTIL
INH: RUTILFLAG
LOAD: RUTIL
OP: RUTIL
REPT: RUTIL
WHEN: RUTIL

Input Appendix(es):
APP: RANGES

Other Manual(s):
235-105-110    System Maintenance Requirements and Tools
56. OP:S
OP:S7ACK
Software Release: 5E15 and later
Command Group: TRK
Application: 5
Type: Input

1. PURPOSE
Requests the status of the ISUP/BICC abnormal acknowledgement output message. This input message queries to see if the printing of the REPT:ABNORMAL-AT output message is allowed or inhibited for the office.

2. FORMAT
OP:S7ACK;

3. EXPLANATION OF MESSAGE
No variables.

4. SYSTEM RESPONSE
PF = Printout follows. Followed by the OP:S7ACK output message.

5. REFERENCES
Input Message(s):
   INH:S7ACK
   ALW:S7ACK

Output Message(s):
   INH:S7ACK
   ALW:S7ACK
   REPT:ABNORMAL-AT
OP:S7RPT

Software Release: 5E15 and later
Command Group: CCS
Application: 5
Type: Input

1. PURPOSE
Requests the current status of all observations.
All active observation scopes and observation types are printed.

2. FORMAT
OP:S7RPT;

3. EXPLANATION OF MESSAGE
No variables.

4. SYSTEM RESPONSE

NG = No good. May also include:
- FEATURE NOT AVAILABLE = The input message cannot be used in this office. The office should be upgraded.
- S7RPT NOT ALLOWED = The ALW:S7RPT input message must be issued for OP:S7RPT input message to have any affect.
- HARDWARE NOT OPERATIONAL = CCS is not available in the office.

PF = Printout follows. Followed by the OP:S7RPT output message.

5. REFERENCES
Input Message(s):
ALW:S7RPT
EXC:S7RPT
STP:S7RPT
INH:S7RPT

Output Message(s):
OP:S7RPT
OP:S7XCHK

**Software Release:** 5E15 and later  
**Command Group:** CCS  
**Application:** 5  
**Type:** Input  

1. **PURPOSE**

Determines whether the PCI7GR cross check running is inhibited or allowed for the entire office.

2. **FORMAT**

```
OP:S7XCHK[,,TYPE=a];
```

3. **EXPLANATION OF MESSAGE**

- **a** = Demand PCI7GR cross check. LID value(s):
  - PCI7GR

4. **SYSTEM RESPONSE**

- **OK** = The message has been accepted. Valid value(s):
  - PCI7GR CROSS CHECK INHIBITED = pci7gr cross check is inhibited.
  - PCI7GR CROSS CHECK ALLOWED = pci7gr cross check is allowed.

5. **REFERENCES**

**Input Message(s):**

- ALW:S7XCHK
- EXC:S7XCHK
- INH:S7XCHK
- STP:S7XCHK

**Output Message(s):**

- EXC:S7XCHK
OP:SCF

Software Release: 5E14 and later
Command Group: TRKLN
Application: 5
Type: Input

1. PURPOSE

Requests a list of all stuck coin failures since the last time the periodic list was printed.

Printing the stuck coin failure report manually, by using this input message, will not clear the stuck coin failure list. Only the periodic report (REPT:SCF) will clear the list.

2. FORMAT

OP:SCF;

3. EXPLANATION OF MESSAGE

No variables.

4. SYSTEM RESPONSE

PF = Printout follows. The request has been accepted. Followed by the OP:SCF output message.

RL = Retry later. The request has been denied, probably due to system load.

5. REFERENCES

Output Message(s):

OP:SCF
REPT:SCF
OP:SCHD

Software Release: 5E14 and later
Command Group: CCS
Application: 5
Type: Input

1. PURPOSE

Requests displays of information about all the reports available in the measurement output control (MOC) schedule table (SCHD).

2. FORMAT

OP:SCHD[:DEST=a];

3. EXPLANATION OF MESSAGE

a = Destination class. If a destination is requested, the output message will be sent to the specified output class. Default is to direct the output message to the input device. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

PF = Printout follows. Followed by the OP:SCHD output message.

5. REFERENCES

Input Message(s):

OP:OUTCLS

Output Message(s):

OP:SCHD

Input Appendix(es):

APP:RANGES

Other Manual(s):

235-070-100 Administration and Engineering Guidelines
OP:SCSD

Software Release: 5E14 and later
Command Group: AM
Application: 5,3B
Type: Input

1. PURPOSE

Requests the inhibit status and the state of scanner and signal distributor (SCSD) scan points. This can be a logical group of scan points or all the scan points on an SCSD. Scan points can be identified by physical location using the SCSD unit number or by the logical group name. If a logical group is duplexed, the states of both logical groups (dupid 0 and dupid 1) are output.

2. FORMAT

OP:SCSD:{UNIT=a|GRPN="b"};

3. EXPLANATION OF MESSAGE

a = Member number of the SCSD unit. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

b = Name of the logical SCSD group. Valid value(s):
FANACU0
FANACU1
PDF0
PRSWCU0
PRSWCU1
PRSWDFC0
PRSWDFC1
PRSWIOP0
PRSWIOP1
PRSWMHDO
PRSWMHD1
PTSNMCR
PTSWROP

4. SYSTEM RESPONSE

NG = No good. SCSD administrator process is not active; no communication with SCSD points is possible.

PF = Printout follows. Followed by the OP:SCSD output message.

RL = Retry later.

5. REFERENCES

Input Message(s):

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ALW: SCSD
INH: SCSD

Output Message(s):

OP: SCSD
REPT: SCSDC

Input Appendix(es):

APP: RANGES
OP:SILC

Software Release: 5E14 and later
Command Group: NMOC
Application: 5
Type: Input

1. PURPOSE

Request a list of all trunk groups assigned to selective incoming load control (SILC) treatment, SILC treatment inhibit, and SILC activation state.

2. FORMAT

OP:SILC;

3. EXPLANATION OF MESSAGE

No variables.

4. SYSTEM RESPONSE

PF = Printout follows. Followed by the OP:SILC output message.

RL = Retry later. May also include:
- CONFLICTING REQUEST = A similar request is being processed utilizing necessary resources.
- RESOURCE SHORTAGE = The necessary resources are not available.

5. REFERENCES

Input Message(s):

ASGN:SILC
CLR:SILC

Output Message(s):

OP:SILC

Other Manual(s):
235-190-115  Local and Toll System Features

MCC Display Page(s):

109 (OVERLOAD)
130 (NM EXCEPTION)
1. PURPOSE
Queries the digital network unit - synchronous optical network (SONET) (DNU-S) for the expected and received signal labels for synchronous transport signal facility (STSFAC). Queries the DNU-S for the expected and received signal labels and virtual tributary (VT) group size for VT 1.5 (VT1.5) facility (VT1FAC).

2. FORMAT
OP:SL,a;

3. EXPLANATION OF MESSAGE
Note: Refer to the Acronym section of the Input Messages manual for the full expansion of acronyms shown in the format.

a = Facility identification. Valid value(s): STSFAC=b-c-d-e-f
   VT1FAC=b-c-d-e-f-g-h
b = SM number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
c = DNU-S number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
d = Data group (DG) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
e = SONET termination equipment (STE) facility number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
f = Synchronous transport signal (STS) facility number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
g = Virtual tributary group (VTG) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
h = Virtual tributary member (VTM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE
NG = No good. The message was not recognized, or was not acceptable.
PF = Printout follows. The request has been accepted and is in progress. Followed by the OP:SL output message(s).
RL = Retry later. The system is busy.

5. REFERENCES
Output Message(s):

OP:SL
REPT:FAC

Input Appendix(es):

APP:RANGES
OP:SL-B

Software Release: 5E16(1) only
Command Group: N/A
Application: 5
Type: Input

1. PURPOSE

Queries the digital network unit - synchronous optical network (SONET) (DNU-S) for the expected and received signal labels for synchronous transport signal facility (STSFAC). Queries the DNU-S for the expected and received signal labels and virtual tributary (VT) group size for virtual tributary 1.5 (VT1.5) facility (VT1FAC). This command is also used to query the SONET (OIU-NAR) for the expected and received signal labels for synchronous transport signal facility (STS-1) and VT1.5.

2. FORMAT

OP:SL,a;

3. EXPLANATION OF MESSAGE

NOTE: Refer to the Acronym section of the Input Messages manual for the full expansion of acronyms shown in the format.

a = Facility identification. Valid value(s):
   STS1=b-i-j-k-f
   STS3C=b-i-j-k-f
   STSFAC=b-c-d-e-f
   VT15=b-i-j-k-f-g-h
   VT1FAC=b-c-d-e-f-g-h

b = SM number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

c = DNU-S number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

d = Data group (DG) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

e = SONET termination equipment (STE) facility number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

f = Synchronous transport signal (STS) facility number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

g = Virtual tributary group (VTG) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

h = Virtual tributary member (VTM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

i = OIU number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
= Protection group (PG) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

k = OC3 number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Message manual.

4. SYSTEM RESPONSE

NG = No good. The message was not recognized or was not acceptable.

PF = Printout follows. The request has been accepted and is in progress. Followed by the OP:SL output message(s).

RL = Retry later. The system is busy.

5. REFERENCES

Output Message(s):

   OP:SL
   REPT:FAC

Input Appendix(es):

   APP:RANGES
OP:SL-C

Software Release: 5E16(2) and later
Command Group: N/A
Application: 5
Type: Input

1. PURPOSE

Queries the digital network unit - synchronous optical network (SONET) (DNU-S) for the expected and received signal labels for synchronous transport signal facility (STSFAC). Queries the DNU-S for the expected and received signal labels and virtual tributary (VT) group size for virtual tributary 1.5 (VT1.5) facility (VT1FAC). This command is also used to query the optical interface unit (OIU) for the expected and received signal labels for synchronous transport signal facility (STS-1 or STS-3c) and VT1.5.

2. FORMAT

OP:SL,a;

3. EXPLANATION OF MESSAGE

NOTE: Refer to the Acronym section of the Input Messages manual for the full expansion of acronyms shown in the format.

\[\text{a} = \text{Facility identification. Valid value(s):}\]

\[
\begin{align*}
\text{STS1} & = b-i-j-k-f \\
\text{STS3C} & = b-i-j-l-m \\
\text{STSFAC} & = b-c-d-e-f \\
\text{VT15} & = b-i-j-k-f-g-h \\
\text{VT1FAC} & = b-c-d-e-f-g-h
\end{align*}
\]

\[\text{b} = \text{SM number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.}\]

\[\text{c} = \text{DNU-S number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.}\]

\[\text{d} = \text{Data group (DG) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.}\]

\[\text{e} = \text{SONET termination equipment (STE) facility number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.}\]

\[\text{f} = \text{Synchronous transport signal (STS) facility number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.}\]

\[\text{g} = \text{Virtual tributary group (VTG) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.}\]

\[\text{h} = \text{Virtual tributary member (VTM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.}\]

\[\text{i} = \text{OIU number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.}\]
j = Protection group (PG) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

k = OC3 number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Message manual.

l = Optical carrier level 3 concatenated (OC3C) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Message manual.

m = Synchronous transport signal level 3 concatenated (STS3C) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Message manual.

4. SYSTEM RESPONSE

NG = No good. The message was not recognized or was not acceptable.

PF = Printout follows. The request has been accepted and is in progress. Followed by the OP:SL output message(s).

RL = Retry later. The system is busy.

5. REFERENCES

Output Message(s):

OP:SL
REPT:FAC

Input Appendix(es):

APP:RANGES
OP:SLK

**Software Release:** 5E14 and later
**Command Group:** CCS
**Application:** 5,CNI
**Type:** Input

1. PURPOSE

Requests status information for the signaling links (SLKs).

2. FORMAT

```
OP:SLK={ALL|a-b[-c-d]}[:[STATE=e[-f]] [,TYPE=g]] [:[ABNORMAL] [,CODES] [,FIX] [,ROUTING] [,RAW]] [:DATA, DEST=h];
```

3. EXPLANATION OF MESSAGE

- **ABNORMAL**
  Output a detailed report including links abnormal conditions. This is a shortened form of the RAW option. If both options are selected only the RAW option will be honored.

- **ALL**
  Report status of all links.

- **CODES**
  Output a detailed report including the link failure codes. This is a shortened form of the RAW option. CODES is intended to be used by itself, therefore if it appears on the input message line with any other of these options, the other options will be ignored.

- **FIX**
  Output a detailed report including the link configuration data.

- **RAW**
  Output a detailed report of the dynamic link information.

- **ROUTING**
  Output a detailed report including some routing information.

- **a**
  Group number or lower limit of a range of group numbers. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

- **b**
  Member number or lower limit of a range of member numbers. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

- **c**
  Upper limit of group numbers for a range of SLKs.

- **d**
  Upper limit of member numbers for a range of SLKs.

**Note:** By use of the following fields, the link report may be limited to links in the specified major and/or minor state, and/or of a given link type.

- **e**
  Either a major or a minor state name. Valid value(s):
  - **AVL** = Available.
  - **GROW** = Grow state, link also unavailable.
  - **IS** = In service.
  - **MOOS** = Available manual out-of-service.
  - **NOTIS** = Output all links in the major state of available whose minor state is NOT in-service.
  - **OOS** = Available out-of-service.
TEST = Test state, link also unavailable.
UNA = Unavailable.
UNE = Unequipped.

f = Minor state. Valid value(s):
GROW = Unavailable grow.
IS = In-service.
MOOS = Available manual OOS.
OOS = Available OOS.
STBY = Stand by.
TEST = Unavailable test.

g = Type of link. Valid value(s):
A = A links
D7 = Domestic system 7 links
DLN = Direct link node
E = E links
F = F links

h = Destination class. This is the numeric value associated with message class desired. A cross reference can be found in output appendix (APP:MSGCLLS), or with the use of the OP:OUTCLS input message. If the DEST option is not used, the output returns to the input device. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

PF = Printout follows. Followed by the OP:SLK output message.

5. REFERENCES

Input Message(s):

OP:OUTCLS

Output Message(s):

OP:SLK

Input Appendix(es):

APP:RANGES

MCC Display Page(s):

118 (CNI RING STATUS)
1521 (SIGNALING LINK SUMMARY)
1522 (SIGNALING LINK)
OP:SMR

Software Release: 5E14 and later
Command Group: CCS
Application: 5,CNI
Type: Input

1. PURPOSE

Requests a common channel interoffice signaling (CCIS) measurement report.

2. FORMAT

[1] OP:SMR=a[:DEST=b];

[2] OP:SMR=c[:LINK=d-e[-f-g]][:DEST=b];

3. EXPLANATION OF MESSAGE

a = Name of the requested report. Valid value(s):
A15MPR15
A30MPR30
AMPRCDAY
AMPRHR
AMPRLDAY
ASEPR15
ASEPR30
ASEPRCDAY
ASEPRHR
ASEPRLDAY
ASNPR1CDAY
ASNPR1HR
ASNPR1LDAY
ASNPR215
ASNPR230
ASNPR2CDAY
ASNPR2HR
ASNPR2LDAY
NFDISK
NFDISKEX
NFLPM
NFLPMEX
RINGEXLPM

b = Destination class. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

c = Name of the flexible report requested. (NFDISK, NFDISKEX, NFLPM, NFLPMEX)

d = Starting link group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
e = Starting link member number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

f = Ending link group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

g = Ending link member number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

PF = Printout follows. Followed by the OP:SMR output message.

5. REFERENCES

Output Message(s):

OP:SMR
OP:SMR-A15MPR15
OP:SMR-A30MPR30
OP:SMR-SEPR
OP:SMR-SNPR1
OP:SMR-SNPR2

Input Appendix(es):

APP:RANGES

Other Manual(s):
235-190-120 Common Channel Signaling Service Features
OP:SMST

Software Release: 5E14 and later
Command Group: MAINT
Application: 5
Type: Input

1. PURPOSE

Requests information on switching modules (SMs) assigned to terminals using switching module system test (SMST) routing.

2. FORMAT

OP:SMST[, SM=a[&b]]; 

3. EXPLANATION OF MESSAGE

a = SM number, or the lower limit of a range of SM numbers.
b = Upper limit of a range of SM numbers.

Note: When SM is not specified, defaults to all SMs. All SMs are checked to see if they are assigned. Resulting output prints only those that are assigned.

4. SYSTEM RESPONSE

PF = Printout follows. Followed by the OP:SMST output message.
RL = Retry later. May also include:
   - UNABLE TO SERVICE REQUEST = The receiving process is not running. Manually invoke HMimst process and try again.

5. REFERENCES

Input Message(s):
RLS:SMST
RTE:SMST

Output Message(s):
OP:SMST
OP:SNAT

Software Release: 5E14 and later
Command Group: CCS
Application: 5
Type: Input

1. PURPOSE

Requests the current view of the common channel interoffice signaling (CCIS) network administration time (SNAT).

2. FORMAT

OP:SNAT[:DEST=a];

3. EXPLANATION OF MESSAGE

a = Destination class. The 'destination number to output device' cross reference can be found by use of the OP:OUTCLS input message. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

PF = Printout follows. Followed by the OP:SNAT output message.

5. REFERENCES

Input Message(s):

OP:OUTCLS

Output Message(s):

OP:SNAT
OP:SS7-A

Software Release: 5E14 only
Command Group: TRKLN
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Requests the output of signaling system 7 (SS7) trunk data matching the following specified characteristics:
A the entire office
B a specific origination point code (OPC),
C a specific destination point code (DPC),
D a specific DPC and OPC combination,
E a DPC and a specific, range or all circuit identification codes (CICs), with an optional SM parameter described below,
F an OPC and a specific, range or all CICs, with an optional SM parameter described below,
G a DPC, OPC and a specific, range or all CICs, with an optional SM parameter described below,
H an SS7 trunk group, with an optional SM parameter described below, or
I an SS7 trunk group and a specific or range of all trunk group members, with an optional SM parameter described below.
J the Global Switching Module (GSM) supported in the office,
K a specific DPC for an specific GSM,
L a specific DPC and a specific, range or all CIC, for an specific GSM, with an optional SM parameter,
M a specific, range or all CIC for an specific GSM.
N the Common Network Interface (CNI) supported in the office,
O a specific DPC associated with the CNI,
P a specific DPC and a specific, range, or all CIC, associated with the CNI, with an optional SM parameter,
Q a specific, range or all CIC associated with the CNI,

Output will include the SS7 trunk group numbers, OPC, and DPC for formats [1] through [17]. Output will include the SS7 trunk group number(s), SS7 trunk member number(s), OPC(s), DPC(s), CIC(s) for all other inputs.

Only one OP:SS7 request may be processed by the system at any moment; additional requests will be denied.

WARNING: Requesting this message may cause an enormous amount of data to be printed on the receive-only printer (ROP). The use of any format could cause a degradation in switch service depending upon the number and size of SS7 trunk groups.

The input message, STP:SS7, can be used to halt the printing of this input message should system operation be impacted by this message.

2. FORMAT

[1] OP:SS7,OFFICE;
[2] OP:SS7,DPC=a;
[3] OP:SS7,OPC=b;
3. EXPLANATION OF MESSAGE

ALL = Search for SS7 trunk group members using a range of all possible CICs. (Refer to the APP:RANGES appendix.)

a = Destination point code (DPC) consisting of a nine digit number. Refer to the APP:POINT-CODE appendix. In multi-OPC offices where OPCs are in both ATT/UNITEL and ANSI networks, the OPC is required. In offices with both CNI and PSU, CNI, OPC, or GSM must be specified.

b = Origination point code (OPC) consisting of a nine digit number. Refer to the APP:POINT-CODE appendix. Alias point codes are allowed for CNI.

c = Circuit identification code (CIC) or the lower limit of a range of CICs. Refer to the APP:RANGES appendix.

d = The upper limit of a range of CICs. Refer to the APP:RANGES appendix.

e = SS7 trunk group (TG) number. Refer to the APP:RANGES appendix.

f = SS7 trunk group member number (TKGMN) or the lower limit of a range of SS7 trunk group member numbers. Refer to the APP:RANGES appendix.

g = The upper limit of a range of SS7 trunk group member numbers. Refer to the APP:RANGES appendix.

h = SM number. Search for trunks is restricted to specified SM. This option is allowed only for OPC/DPC/CIC, TG or TKGMN requests.

i = GSM number.
4. SYSTEM RESPONSE

PF = Printout follows. The request has been accepted and an OP:SS7 output message will follow.

RL = Retry later. Valid value(s):
- FAILED TO CREATE PROCESS = The process that would service the request could not be created, or did not receive the request, probably due to system load.
- REQUEST ALREADY IN PROGRESS = An OP:SS7 request is already running. Only one request is allowed to run at a time.
- TOO MANY PROCESSES ACTIVE = A process to service the request cannot be created because the maximum number of active maintenance processes has been reached.

5. REFERENCES

Input Message(s):

STP:SS7

Output Message(s):

OP:SS7
STP:SS7

Input Appendix(es):

APP:RANGES
APP:POINT-CODE

Other Manual(s):
235-200-115 CNI Common Channel Signaling
235-200-116 Signaling Gateway Common Channel Signaling
OP:SS7-B

Software Release: 5E15 and later
Command Group: TRKLN
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Requests the output of signaling system 7 (SS7) trunk data matching the following specified characteristics. These include:

- The entire office, includes a summary of the ISUP equippage.
- A specific origination point code (OPC).
- A specific destination point code (DPC).
- A specific DPC and OPC combination.
- A DPC and a specific, range or all circuit identification codes (CICs), with an optional SM parameter.
- An OPC and a specific, range or all CICs, with an optional SM parameter.
- A DPC, OPC and a specific, range or all CICs, with an optional SM parameter.
- An SS7 trunk group, with an optional SM parameter.
- An SS7 trunk group and a specific or range of all trunk group members, with an optional SM parameter.
- The global switching module (GSM) supported in the office.
- A specific DPC for an specific GSM.
- A specific DPC and a specific, range or all CIC, for an specific GSM, with an optional SM parameter.
- A specific, range or all CIC for an specific GSM.
- The common network interface (CNI) supported in the office.
- A specific DPC associated with the CNI.
- A specific DPC and a specific, range, or all CIC, associated with the CNI, with an optional SM parameter.
- A specific, range or all CIC associated with the CNI.
- A summary of the ISUP equippage in the office.

Output will include the SS7 trunk group numbers, OPC, and DPC for formats [1] through [17]. Output will include the SS7 trunk group number(s), SS7 trunk member number(s), OPC(s), DPC(s), CIC(s) for all other inputs, except format [18].

Output for the summary report will include the total number of ISUP trunks equipped, number equipped per platform, and the number of ISUP inter/intra module trunks (IMT).

Only one OP:SS7 request may be processed by the system at any moment; additional requests will be denied.

WARNING: Requesting this message may cause an enormous amount of data to be printed on the ROP. The use of any format could cause a degradation in switch service depending upon the number and size of SS7 trunk groups.

The input message, STP:SS7, can be used to halt the printing of this input message should system operation be impacted by this message.

2. FORMAT
3. EXPLANATION OF MESSAGE

ALL   = Search for SS7 trunk group members using a range of all possible CICs. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

a    = Destination point code (DPC) consisting of a nine digit number. Refer to the APP:POINT-CODE appendix in the Appendixes section of the Input Messages manual. In multi-OPC offices where OPCs are in both ATT/UNITEL and ANSI® networks, the OPC is required. In offices with both CNI and PSU, CNI, OPC, or GSM must be specified.

b    = Origination point code (OPC) consisting of a nine digit number. Refer to the APP:POINT-CODE appendix in the Appendixes section of the Input Messages manual. Alias point codes are allowed for CNI.

c    = CIC or the lower limit of a range of CICs. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

d    = The upper limit of a range of CICs. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
e  = SS7 trunk group (TG) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

f  = SS7 trunk group member number (TKGMN) or the lower limit of a range of SS7 trunk group member numbers. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

g  = The upper limit of a range of SS7 trunk group member numbers. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

h  = SM number. Search for trunks is restricted to specified SM. This option is allowed only for OPC/DPC/CIC, TG, or TKGMN requests.

i  = GSM number.

4. SYSTEM RESPONSE

PF  = Printout follows. The request has been accepted and an OP:SS7 output message will follow.

RL  = Retry later. May also include:
   - FAILED TO CREATE PROCESS = The process that would service the request could not be created, or did not receive the request, probably due to system load.
   - REQUEST ALREADY IN PROGRESS = An OP:SS7 request is already running. Only one request is allowed to run at a time.
   - TOO MANY PROCESSES ACTIVE = A process to service the request cannot be created because the maximum number of active maintenance processes has been reached.

5. REFERENCES

Input Message(s):

STP:SS7

Output Message(s):

OP:SS7
STP:SS7

Input Appendix(es):

APP:RANGES
APP:POINT-CODE

Other Manual(s):
235-200-115  CNI Common Channel Signaling
235-200-116  Signaling Gateway Common Channel Signaling
OP:SSTR
Software Release: 5E14 and later
Command Group: NMOC
Application: 5
Type: Input

1. PURPOSE
Requests a list of all service selective trunk reservation (SSTR) controls that are currently assigned, or lists the SSTR controls for a single trunk group.

2. FORMAT
OP:SSTR[,TG=a];

3. EXPLANATION OF MESSAGE
a = Trunk group (TG) number.

4. SYSTEM RESPONSE
PF = Printout follows. Followed by the OP:SSTR output message.
RL = Retry later. May also include:
   - RESOURCE SHORTAGE = The request could not be accepted because the necessary resources are not available.

5. REFERENCES
Input Message(s):
   OP:TR
   ALW:SSTR
   ASGN:SSTR
   CLR:SSTR
   INH:SSTR
   OP:SSTR
   SET:SSTROVRD
   CLR:SSTROVRD

Output Message(s):
   ALW:SSTR
   OP:SSTR

Other Manual(s):
235-190-115 Local and Toll System Features
MCC Display Page(s):

130 (NM EXCEPTION)
OP:ST-APX

Software Release: 5E14 and later
Command Group: CCS
Application: 5
Type: Input

1. PURPOSE

Requests that the communication status between the 5ESS® Digital Cellular Switch and the Autoplex® Executive Cellular Processor be queried.

2. FORMAT

OP:STATUS,APX;

3. EXPLANATION OF MESSAGE

No variables.

4. SYSTEM RESPONSE

NG = No good. May also include:
   - FEATURE IS NOT ACTIVE = Autoplex® application not loaded in this office.

PF = Printout Follows. Followed by the OP:ST-APX output message.

5. REFERENCES

Output Message(s):

   OP:ST-APX
OP:ST-AUD-CMP-A
Software Release: 5E14 - 5E15
Command Group: AUDIT
Application: 5
Type: Input

1. PURPOSE
Requests a report of the status of a specified audit, all audits, or all inhibited audits for a particular communication module processor (CMP) or range of CMPs.

2. FORMAT
OP:STATUS [=a], AUD [=b], CMP = c [, {PRIM | MATE}];

3. EXPLANATION OF MESSAGE
   a = The audits status. Valid value(s):
      ALL = The status of all audits is printed.
      INH = The status of only the inhibited audits prints. This is the default value.

   b = Audit ID for an application audit. The default value is all audits and the routine audit cycle.

   c = Communications module processor number (such as, 0). The active (PRIM) CMP is assumed unless MATE is specified.

4. SYSTEM RESPONSE
   NG = No good. May also include:
      - AUDIT NOT AVAILABLE IN CMP = The request has been denied because the audit specified in the 'b' variable does not exist in the CMP specified.
      - INVALID CMP = The specified CMP does not exist.

   PF = Printout follows. Followed by the OP:ST-AUD-CMP output message.

5. REFERENCES
Output Message(s):
   OP:ST-AUD-CMP

Other Manual(s):
235-600-400 Audits
OP:ST-AUD-CMP-B

Software Release: 5E16(1) and later
Command Group: AUDIT
Application: 5
Type: Input

1. PURPOSE

Requests a report of the status of a specified audit, all audits, or all inhibited audits for a particular communication module processor (CMP) or range of CMPs.

2. FORMAT

OP:STATUS[=a],AUD[=b],CMP=c[,d];

3. EXPLANATION OF MESSAGE

a = The audits status. Valid value(s):
   ALL  = The status of all audits is printed.
   INH  = The status of only the inhibited audits prints. This is the default value.
   LIST = Lists all audits which can be requested individually.

b = Audit ID for an application audit. Refer to the APP:AUDITS appendix in the Appendixes section of the Output Messages manual for valid audit IDs. The default value is all audits and the routine audit cycle.

c = Communications module processor number (such as, 0). The active (PRIM) CMP is assumed unless MATE is specified.

d = CMP type. Valid value(s):
   MATE  
   PRIM

4. SYSTEM RESPONSE

NG = No good. May also include:
   - AUDIT NOT AVAILABLE IN CMP = The request has been denied because the audit specified in the 'b' variable does not exist in the CMP specified.
   - INVALID CMP = The specified CMP does not exist.
   - UNRECOGNIZED AUDIT ENVIRONMENT = The request is denied because the environment was not recognized.

PF = Printout follows. Followed by the OP:ST-AUD-CMP output message.

5. REFERENCES

Output Message(s):

    OP:ST-AUD-CMP
Output Appendix(es):

APP: AUDITS

Other Manual(s):
235-600-400  Audits
OP:ST-AUD-ENV-A

Software Release: 5E14 - 5E15
Command Group: AUDIT
Application: 5
Type: Input

1. PURPOSE

Requests the status of a specific audit, all audits or all inhibited audits for a particular kernel process environment.

2. FORMAT

OP:STATUS[=a],AUD[=b],ENV=c;

3. EXPLANATION OF MESSAGE

a = The type of audit reported. Valid value(s):
   ALL = Report the status of all routine audits.
   INH = Report the status of only the inhibited audits. This is the default value.

b = The audit ID for an application audit. Default is all audits and audit cycles.

c = The kernel process. Valid value(s):
   OKP = Operational kernel process.
   SMKP = Switch maintenance kernel process.

4. SYSTEM RESPONSE

NG = No good. May also include:
   - ARGUMENT FOR ENV MISSING = The request has been denied because neither OKP nor
     SMKP were specified for variable 'b'.
   - AUDIT NOT AVAILABLE IN SPECIFIED ENV = The request has been denied because the
     specified audit is not available in the requested kernel process.
   - SM TYPE NOT VALID FOR THIS REQUEST = The request has been denied because a
     switching module (SM) type (remote switching module (RSM), local switching
     module (LSM), or host switching module (HSM)) was specified for a kernel process
     environment.

PF = Printout follows. The request has been received. Followed by the OP:ST-AUD-ENV output
message.

5. REFERENCES

Output Message(s):

OP:ST-AUD-ENV
Other Manual(s):

235-600-400  *Audits*
OP:ST-AUD-ENV-B

Software Release: 5E16(1) and later
Command Group: AUDIT
Application: 5
Type: Input

1. PURPOSE

Requests the status of a specific audit, all audits or all inhibited audits for a particular kernel process environment.

2. FORMAT

OP:STATUS[=a],AUD[=b],ENV=c;

3. EXPLANATION OF MESSAGE

   a = The type of audit reported. Valid value(s):
      ALL = Report the status of all routine audits.
      INH = Report the status of only the inhibited audits. This is the default value.
      LIST = Lists all audits which can be requested individually.

   b = The audit ID for an application audit. Refer to the APP:AUDITS appendix in the Appendixes section of the Output Messages manual. Default is all audits and audit cycles.

   c = The kernel process. Valid value(s):
      OKP = Operational kernel process.
      SMKP = Switch maintenance kernel process.

4. SYSTEM RESPONSE

   NG = No good. May also include:
      - ARGUMENT FOR ENV MISSING = The request has been denied because neither OKP nor SMKP were specified for variable 'b'.
      - AUDIT NOT AVAILABLE IN SPECIFIED ENV = The request has been denied because the specified audit is not available in the requested kernel process.
      - SM TYPE NOT VALID FOR THIS REQUEST = The request has been denied because a switching module (SM) type [remote switching module (RSM), local switching module (LSM), or host switching module (HSM)] was specified for a kernel process environment.
      - UNRECOGNIZED AUDIT ENVIRONMENT = The request is denied because the environment was not recognized.

   PF = Printout follows. The request has been received. Followed by the OP:ST-AUD-ENV output message.

5. REFERENCES

Output Message(s):
OP: ST-AUD-ENV

Other Manual(s):
235-600-400 Audits
OP:ST-AUD-SM-A

Software Release: 5E14 - 5E15
Command Group: AUDIT
Application: 5
Type: Input

1. PURPOSE
Requests a report of the status of a specific audit, all audits, or all inhibited audits for a particular switching module (SM) or range of SMs.

2. FORMAT
OP:STATUS[=a],AUD[=b],SM=c[&&d][,RSM][,LSM][,HSM][,ORM][,TRM];

3. EXPLANATION OF MESSAGE

HSM = Host switching module. Audit status will be retrieved for HSMs only. The default is any type of SM.

LSM = Local switching module. Audit status will be retrieved for LSMs only. The default is any type of SM.

ORM = Optically remote switching module. Audit status will be retrieved for ORMs only. The default is any type of SM.

RSM = Remote switching module. Audit status will be retrieved for RSMs only.

TRM = Two mile optically remote switching module. Audit status will be retrieved for TRMs only. The default is any type of SM.

a = Status of the audit. Valid value(s):
   ALL = Report the status of all audits is printed.
   INH = Report the status of only the inhibited audits prints. This is the default value.

b = Audit ID for an application audit. The default value is all audits and the routine audit cycle.

c = SM number, or lower limit of a range of SM numbers.

d = Upper limit of a range of SM numbers.

4. SYSTEM RESPONSE

NG = No good. May also include:
   - ALL AUDITS STATUS SPECIFIED WITH SM RANGE = If the 'a' variable is ALL, either a specific audit must be used in the 'b' variable, or a specific SM must be used in the 'c' variable.
   - AUDIT NOT AVAILABLE IN SM TYPE = The request has been denied because the audit specified in the 'b' variable does not exist in the SM type specified or does not exist in any SM type.
   - INVALID SM RANGE/TYPE COMBINATION = The request has been denied because either the range is not in ascending order, or there is not at least one SM of the specified type.
or any type within the range.

**PF**  = Printout follows. Followed by the OP:ST-AUD-SM output message.

**RL**  = Retry later. May also include:

- **MESSAGE BROADCAST INTERNAL ERROR** = The message cannot be sent to the specified SM(s) at the present time due to problems scheduling a job to broadcast the message.

### 5. REFERENCES

Output Message(s):

- **OP:ST-AUD-SM**

Other Manual(s):

235-600-400  *Audits*
OP:ST-AUD-SM-B

Software Release: 5E16(1) and later
Command Group: AUDIT
Application: 5
Type: Input

1. PURPOSE

Requests a report of the status of a specific audit, all audits, or all inhibited audits for a particular switching module (SM) or range of SMs.

If an SM type is not specified, the default is any type of SM.

2. FORMAT

OP:STATUS[=a],AUD[=b],SM=c[&d][,RSM][,LSM][,HSM][,ORM][,TRM];

3. EXPLANATION OF MESSAGE

a = Status of the audit. Valid value(s):
   ALL = Report the status of all audits is printed.
   INH = Report the status of only the inhibited audits prints. This is the default value.
   LIST = Lists all audits which can be requested individually.

b = Audit ID for an application audit. Refer to the APP:AUDITS Appendix in the Appendixes section of the Audits manual for valid audit IDs. The default value is all audits and the routine audit cycle.

c = SM number, or lower limit of a range of SM numbers.

d = Upper limit of a range of SM numbers.

4. SYSTEM RESPONSE

NG = No good. May also include:
   - ALL AUDITS STATUS SPECIFIED WITH SM RANGE = If the ‘a’ variable is ALL, either a specific audit must be used in the ‘b’ variable, or a specific SM must be used in the ‘c’ variable.
   - AUDIT NOT AVAILABLE IN SM TYPE = The request has been denied because the audit specified in the ‘b’ variable does not exist in the SM type specified or does not exist in any SM type.
   - INVALID SM RANGE/TYPEx COMBINATION = The request has been denied because either the range is not in ascending order, or there is not at least one SM of the specified type or any type within the range.
   - UNRECOGNIZED AUDIT ENVIRONMENT = The request is denied because the environment was not recognized.

PF = Printout follows. Followed by the OP:ST-AUD-SM output message.

RL = Retry later. May also include:
   - MESSAGE BROADCAST INTERNAL ERROR = The message cannot be sent to the specified SM(s) at the present time due to problems scheduling a job to broadcast the
message.

5. REFERENCES

Output Message(s):

OP: ST-AUD-SM

Other Manual(s):
235-600-400 *Audits*
OP:ST-AUD-SODD

Software Release: 5E14 and later
Command Group: AUDIT
Application: 5
Type: Input

1. PURPOSE
Requests the status of the full or incremental static office-dependent data (SODD) audit.

2. FORMAT
OP:STATUS[=a],AUD=SODD,(FULL|INCR);

3. EXPLANATION OF MESSAGE

a = The type of audit reported. Valid value(s):
   ALL    = Report the status of all routine audits.
   INH    = Report the status of only the inhibited audits. This is the default value.

FULL   = Report the status of the full SODD audit.
INCR   = Report the status of the incremental SODD audit.

4. SYSTEM RESPONSE
PF = Printout follows. Followed by an OP:ST-AUD-ENV output message.

5. REFERENCES
Input Message(s):
   INH:AUD-SODD
   ALW:AUD-SODD

Output Message(s):
   OP:ST-AUD-ENV

Other Manual(s):
235-105-210  Routine Operations and Maintenance Manual
OP:ST-CCSLK

Software Release: 5E14 and later
Command Group: CCS
Application: 5
Type: Input

1. PURPOSE

Requests the status of one or more common channel signaling (CCS) links. Link set and member are optional. If they are omitted, all link members of all link sets on the specified global switching module (GSM) will be displayed.

Note: This input message is applicable only for packet switching unit (PSU) platform CCS7.

2. FORMAT

OP:STATUS,CCSLK[,SET=a[&b]][,MEMBER=c[&d]][,STATE=e][,SM=f];

3. EXPLANATION OF MESSAGE

a = Link set number or lower limit of a range of link sets. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual. If not specified, all link members are displayed.

b = Upper limit of a link set number range.

c = Link member number or lower limit of a range of link members. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

d = Upper limit of a link member range.

e = State classification to restrict output. If not specified, links having any state are displayed. Valid value(s):
   AVAIL = Available. Link is active, available for traffic.
   UNAV = Unavailable. Link unavailable for traffic.

f = GSM number. CCS GSM number from which the data is desired. If no SM number is specified and only one CCS GSM exists in the office, output will be produced for that GSM. If multiple CCS GSMs exist in the office, the SM must be specified.

4. SYSTEM RESPONSE

NG = No good. May also include:
   - GSM MISMATCH = The specified SM is not a GSM or the SM does not exist.
   - NO GLOBAL SM = No GSM is provisioned in the office.
   - NEED GSM NUMBER = SM was not specified in the input message, and the office has more than one GSM provisioned.

PF = Printout follows. Followed by the OP:STATUS-CCSLK output message.

RL = Retry later. May also include:
- SM NOT AVAILABLE = Command cannot be processed because the GSM is not accessible.

5. REFERENCES

Output Message(s):

OP: ST-CCSLK

Input Appendix(es):

APP: RANGES

Other Manual(s):
235-190-120 Common Channel Signaling Service Features

MCC Display Page(s):

1532 (CCS LINK SET SUMMARY)
1533 (CCS LINK SET MEMBER)
OP:ST-DISKUSE

Software Release: 5E14 and later
Command Group: FHADM
Application: 5.3B
Type: Input

1. PURPOSE

Requests the number of blocks contained in all files and directories within each specified directory or filename. This process is repeated for all directories that descend from the specified directories. The block count includes the indirect blocks of the file.

2. FORMAT

OP:STATUS,DISKUSE,FN="a",{TOTAL|EACH}[,OPL=b];

3. EXPLANATION OF MESSAGE

EACH = Print an entry for each file.
TOTAL = Print the total number of blocks in the directory or file.
a = Pathname of the file.
   Note: The default for TOTAL and EACH is to generate an entry for each directory only. One of these variables must be used when a file is specified as variable 'a'.

b = Number of segments to be output (specified in decimal). Default = 10 segments. Each segment has a maximum size of 1000 bytes or 20 lines. This option is not needed when TOTAL is used.

4. SYSTEM RESPONSE

PF = Printout follows. Followed by the OP:ST-DISKUSE output message.

5. REFERENCES

Input Message(s):
   OP:ST-LISTDIR
   OP:ST-SUM

Output Message(s):
   OP:ST-DISKUSE
   OP:ST-LISTDIR
   OP:ST-SUM

Other Manual(s):
235-105-210  Routine Operations and Maintenance
1. PURPOSE

Requests a report of the on/off status of the direct signaling events (DSE) trapping and printing. This function includes the advanced services platform (ASP), automated inward line screening (AILS), billing validation application (BVA) calling card service (CCRD), BVA billing number screening (BNS), customer account services (CAS), CAS common channel signaling 7 (CCS7), interswitch voice messaging (ISVM), international credit card validation (ICCV), inward wide area telecommunications services (INWATS), leased network (LN), line applications for consumers (LAC), line information database (LIDB) BNS, LIDB CCRD features, LIDB OLNS, network call denial (NCD), number services (NS), rating, software defined network (SDN) or Operator Services Position System (OSPS) local number portability (LNP).

DSE traps can be turned on with the SET:DSE input message and turned off with the CLR:DSE input message. Events are reported in the REPT:ACP-APP-SM, REPT:ASP, REPT:DSE, REPT:MS-TRAPPED, REPT:NS or REPT:OSPS-DSE output message.

2. FORMAT

   OP:STATUS,DSE=a;

3. EXPLANATION OF MESSAGE

   a = Name of event trap whose status is to be output. Valid value(s):
      AILSGMG = AILS message received with invalid format reply.
      AILSMRQ = AILS error - misrouted query.
      AILSTOT = AILS query timed out before a reply was received.
      AILSTRF = AILS error - task refused.
      AILSUDV = AILS error - message received with unexpected input data value.
      ASPACGCOMP = Advanced services platform (ASP) service control point (SCP) response or unidirectional message with an automatic call gap (ACG) component received at the switch.
      ASPBADRESP = ASP SCP response message received with invalid data.
      ASPNORTEMSG = ASP reject message, a return error, or a play announcement received at the switch from the SCP.
      ASPQRYFAIL = ASP query blocked by network management (NM) ACG, a returned query or conversation received at the switch or a time out received in call processing.
      ASPSNCOMP = ASP SCP response message with a send notification received at the switch.
      ASPTNMSG = ASP termination notification message sent from the switch to the SCP.
      CASDBOV = CAS message received indicating database overload.
      CASDBUN = CAS message returned - database unable to process.
      CAGMSG = CAS message received garbled.
      CASNBKL = CAS message returned because of network blockage.
      CASNCON = CAS message returned because of network congestion.
      CASNRTE = CAS message returned because of no routing data.
      CASTOUT = CAS message returned because of timeout.
      CASUNEQ = CAS message returned because of unequipped destination.
      CASURPY = CAS message received with an unexpected reply.
      CAS7ABM = CAS CCS7 abort message received.
<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>CAS7ACG</td>
<td>CAS CCS7 ACG invoke component received.</td>
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<td>CAS7GGM</td>
<td>CAS CCS7 received with invalid format reply.</td>
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<tr>
<td>CAS7GME</td>
<td>CAS CCS7 error - gateway error.</td>
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<td>CAS7MRP</td>
<td>CAS CCS7 error - message received with missing parameter.</td>
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<td>CAS CCS7 message returned because of network congestion.</td>
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<td>CAS CCS7 message returned because of network failure.</td>
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<td>CAS7RCR</td>
<td>CAS CCS7 reject component received.</td>
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<td>CAS7SCG</td>
<td>CAS CCS7 message returned because of subsystem congestion.</td>
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<td>CAS CCS7 message returned because of subsystem failure.</td>
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<tr>
<td>CAS7TAN</td>
<td>CAS CCS7 message returned - no translation data for address of such nature.</td>
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<tr>
<td>CAS7TOT</td>
<td>CAS CCS7 query which timed out before reply received.</td>
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<td>CAS7TRF</td>
<td>CAS CCS7 error - task refused.</td>
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<td>CAS7TSA</td>
<td>CAS CCS7 message returned - no translation data for this specific address.</td>
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<td>CAS7UDV</td>
<td>CAS CCS7 error - message received with unexpected input data value.</td>
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<tr>
<td>CAS7UPR</td>
<td>CAS CCS7 error - message received with unexpected parameter.</td>
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<tr>
<td>CAS7UQD</td>
<td>CAS CCS7 message returned - unqualified.</td>
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<tr>
<td>CAS7URY</td>
<td>CAS CCS7 received with unexpected reply.</td>
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<tr>
<td>CAS7URR</td>
<td>CAS CCS7 message returned - unequipped user.</td>
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<td>CAS7VCD</td>
<td>CAS CCS7 error - vacant code.</td>
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<td>CCDDBOV</td>
<td>BVA CCRD message received indicating database overload.</td>
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<td>CCDDBUN</td>
<td>BVA CCRD message returned - database unable to process.</td>
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<td>BVA CCRD message received garbled.</td>
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<td>CDDNBLK</td>
<td>BVA CCRD message returned because of network blockage.</td>
</tr>
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<td>CDDNCN</td>
<td>BVA CCRD message returned because of network congestion.</td>
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<td>BVA CCRD message returned because of no routing data.</td>
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<td>BVA CCRD message returned - unequipped destination.</td>
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<td>CCDURF</td>
<td>BVA CCRD message received with an unexpected destination.</td>
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<td>ICCVABM</td>
<td>ICCV abort message received.</td>
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<td>ICCVMPPR</td>
<td>ICCV error - message received with missing parameter.</td>
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<tr>
<td>ICCVMRQ</td>
<td>ICCV error - misrouted query.</td>
</tr>
<tr>
<td>ICCVNCG</td>
<td>ICCV message returned because of network congestion.</td>
</tr>
<tr>
<td>ICCVNFL</td>
<td>ICCV message returned because of network failure.</td>
</tr>
<tr>
<td>ICCVRCR</td>
<td>ICCV reject component received.</td>
</tr>
<tr>
<td>ICCVSFCG</td>
<td>ICCV message returned because of subsystem congestion.</td>
</tr>
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<td>ICCVST</td>
<td>ICCV message returned - no translation data for address of such nature.</td>
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<tr>
<td>ICCVTOT</td>
<td>ICCV query which timed out before reply received.</td>
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<td>ICCVTS</td>
<td>ICCV message returned - no translation data for this specific address.</td>
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<td>ICCVUD</td>
<td>ICCV error - message received with unexpected input data value.</td>
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<tr>
<td>ICCVUPR</td>
<td>ICCV error - message received with unexpected parameter.</td>
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<tr>
<td>ICCVUQD</td>
<td>ICCV message returned - unqualified.</td>
</tr>
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<td>ICCVURY</td>
<td>ICCV received with unexpected reply.</td>
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<tr>
<td>ICCVUUR</td>
<td>ICCV message returned - unequipped user.</td>
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<td>INWBLKD</td>
<td>INWATS returned blocked.</td>
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<td>INWBUSY</td>
<td>INWATS all lines busy.</td>
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<tr>
<td>INWCCBL</td>
<td>INWATS code control blocked.</td>
</tr>
<tr>
<td>INWDBOV</td>
<td>INWATS database overload.</td>
</tr>
</tbody>
</table>
INWDBTO = INWATS database timeout.
INWDSBL = INWATS direct signaling blocked.
INWNNPA = INWATS nonpurchased numbering plan area (NPA).
INWNOXL = INWATS returned no translation.
INWONPA = INWATS invalid originating numbering plan area (ONPA).
INWOVLD = INWATS returned overload.
INWUNEQ = INWATS returned unequipped.
INWVLIN = INWATS vacant line number.
INWVNXX = INWATS vacant NXX.
LACABM = LAC abort message received.
LACACG = LAC invoke component received.
LACMG = LAC message received with invalid format.
LACMPR = LAC error - message received with missing parameter.
LACMRQ = LAC error - misrouted query.
LACNCG = LAC message returned because of network congestion.
LACNFL = LAC message returned because of network failure.
LACRCR = LAC reject component received.
LACSCG = LAC message returned because of subsystem congestion.
LACSFL = LAC message returned because of subsystem failure.
LACTAN = LAC message returned - no translation data for address of such nature.
LACTOT = LAC query timed out before a reply was received.
LACTRF = LAC error - task refused.
LACTSA = LAC message returned - no translation data for this specific address.
LACUDV = LAC error - message received with unexpected input data value.
LACUPR = LAC error - message received with unexpected parameter.
LACUQD = LAC message returned - unqualified.
LACURY = LAC unexpected reply.
LACUUR = LAC message returned - unequipped user.
LACVCD = LAC error - vacant code.
LIDBCGI = LIDB message with call gapping indicator present.
LIDBGM = LIDB garbled message.
LIDBMGM = LIDB return value missing group or misrouted.
LIDBNAN = LIDB return value no translation for an address of such nature.
LIDBNCG = LIDB return value network congestion.
LIDBNFL = LIDB return value network failure.
LIDBNPG = LIDB return value nonparticipating group.
LIDBNSA = LIDB return value no translation for this specific address.
LIDBREJ = LIDB reject message received.
LIDBSCG = LIDB return value subsystem congestion.
LIDBSFL = LIDB return value subsystem failure.
LIDBTO = LIDB message missed because of timeout.
LIDBUP = LIDB message with unexpected reply.
LIDBURe = LIDB return value unequipped user.
LNBSAS = Call failed due to the query being blocked at the switch.
LNBN = Call failed due to the query being blocked in the common channel signaling (CCS) network.
LNGTCAP = Garbled transaction capabilities application part (TCAP) message received - message can not be parsed.
LNNCASI = Centralized automatic message accounting (CAMA) call failed due to CAMA trunk not providing automatic number identification (ANI) for query.
LNNCF = Call failure due to some reason while the transaction with the network control
point (NCP) is active.

LNNCFI = Call failure due to some reason while the transaction with the NCP is inactive.
LNRR = Call failed due to the conversation with the NCP resulting in a reject response.
LNTIM = Call failed due to the query not being answered in time by the NCP.
LNTIM = Call failed due to the NCP answering with a terminate request.
MSFAILRCD = A "Message Service System (MSS) reject" message or a "return error" message was received at the near/far switch from the far/near switch respectively.
MSFAILSEN = An "MSS reject" message or a "return error" message was sent to the near/far switch from the far/near switch respectively.
MSQRYFAIL = A timeout was received in the MSS. A "return query" message received at the near switch because of network failure or failure to send a query.
NCDAFTA = NCD denied after answer.
NCDBEFA = NCD denied before answer.
NCDBLKD = NCD returned blocked.
NCDCCBLS = NCD code control blocked.
NCDDBOV = NCD database overload.
NCDDENY = NCD deny received.
NCDDSQBL = NCD direct signaling blocked.
NCDDNOXL = NCD returned no translation.
NCDOVLD = NCD returned overload.
NCDUNEQ = NCD returned unequipped.
NSACGCMP = Number services (NS) SCP response message with an ACG component received at the switch.
NSBADRESP = NS SCP response message with invalid data.
NSNONRTEMSG = NS reject message, a return error or a play announcement received at the switch from the SCP.
NSQRYFAIL = NS query blocked by NM ACG, a returned query received at the switch or a time out received in call processing.
NSSLNREMP = NS response message with a send notification received at the switch.
NSTMSTG = NS termination notification message sent from the switch to the SCP.
OLNPABM = OSPS LNP abort message received.
OLNPAFC = OSPS LNP ACG invoke component received.
OLNEPCR = OSPS LNP error code received.
OLNPAGM = OSPS LNP received with invalid format reply.
OLNPNCG = OSPS LNP message returned because of network congestion.
OLNPNFL = OSPS LNP message returned because of network failure.
OLNPRCR = OSPS LNP reject component received.
OLNPSCG = OSPS LNP message returned because of subsystem congestion.
OLNPSFL = OSPS LNP message returned because of subsystem failure.
OLNPSTT = OSPS LNP query which timed out before reply received.
OLNPSTN = OSPS LNP message returned - no translation data for specific address.
OLNPSTN = OSPS LNP message returned - no translation data for address of such nature.
OLNPUDQ = OSPS LNP message returned - unqualified.
OLNPURY = OSPS LNP received with unexpected reply.
OLNPURU = OSPS LNP message returned - unequipped user.
RATDBOV = Rating message received indicating database overload.
RATDBUN = Rating message returned - database unable to process.
RATGMSC = Rating message received garbled.
RATTOUT = Rating message returned because of timeout.
RATURPY = Rating message received with an unexpected reply.
SDNBAS = Call failed due to the query's being blocked at the switch.
SDNBN = Call failed due to the query's being blocked in the common channel signaling (CCS) network.
SDNGTCAP = Garbled transaction capabilities application part (TCAP) message received - message can not be parsed.
SDNNCANI = Centralized automatic message accounting (CAMA) call failed due to CAMA trunk's not providing automatic number identification (ANI) for query.
SDNNCFA = Call failed while the transaction with the network control point (NCP) was active.
SDNNCFI = Call failed while the transaction with the NCP was inactive.
SDNNOCANI = CAMA call failed due to CAMA trunk's not providing ANI through operator number identification (ONI) for query.
SDNRER = Call failed because to the conversation with the NCP resulting in a return error response.
SDNRR = Call failed because to the conversation with the NCP resulting in a reject response.
SDNTIM = Call failed due to the query's not being answered in time by the NCP.
SDNTRF = Call failed due to the NCP's answering with a terminate request.

4. SYSTEM RESPONSE

PF = Printout follows. The request was received and the OP:ST-DSE output message follows.

5. REFERENCES

Input Message(s):
CLR:DSE
SET:DSE

Output Message(s):
OP:ST-DSE
REPT:ACP-APP-SM
REPT:ASP
REPT:DSE
REPT:MS-TRAPPED
REPT:NS
REPT:OSPS-DSE

Other Manual(s):

Where 'x' is the release-specific version of the specified manual.

235-190-120 Common Channel Signaling Service Features
235-190-12x Advanced Services Platform
OP:ST-ENV-AUD

Software Release: 5E16(1) and later
Command Group: AUDIT
Application: 5
Type: Input

1. PURPOSE

Requests a list of environments supporting the requested audit.

2. FORMAT

OP:STATUS=ENV,AUD=[a],FULL;

3. EXPLANATION OF MESSAGE

a = Audit ID for an application audit. Refer to the APP:AUDITS Appendix in the Output Messages manual for valid audit IDs.

4. SYSTEM RESPONSE

NG = No good. May also include:
   - MISSING KEYWORD FULL = The keyword "FULL" must be supplied.
   - APPLICATION AUDIT MUST BE SPECIFIED FOR THIS REQUEST The audit specified does not exist or is not an application audit. In particular, this command does not apply to the routine audit cycle or SODD audit.

PF = Printout follows. Followed by the OP:ENV-AUD output message.

5. REFERENCES

Output Message(s):

OP:ENV-AUD

Other Manual(s):
235-600-400 Audits

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OP:ST-FILESYS

Software Release: 5E14 and later
Command Group: FHADM
Application: 5,3B
Type: Input

1. PURPOSE
Requests information about all of the mounted file systems.

2. FORMAT
OP:STATUS,FILESYS;

3. EXPLANATION OF MESSAGE
No variables.

4. SYSTEM RESPONSE

PF = Printout follows. Followed by the OP:ST-FILESYS output message.

5. REFERENCES

Input Message(s):

   ALW:FSYS-MOUNT
   INH:FSYS-UMOUNT

Output Message(s):

   OP:ST-FILESYS

Other Manual(s):
235-105-210 Routine Operations and Maintenance

MCC Display Page(s):
(CRAFT FM 01)
OP:ST-FREEDISK

Software Release: 5E14 and later
Command Group: FHADM
Application: 5,3B
Type: Input

1. PURPOSE
Requests the number of free blocks and free inodes available for online file systems. If the file system is unspecified, the free space on all the mounted file systems is listed.

2. FORMAT

OP:STATUS,FREEDISK[,FN="a"];

3. EXPLANATION OF MESSAGE

a = Full pathname of the file system.

4. SYSTEM RESPONSE

PF = Printout follows. Followed by the OP:ST-FREEDISK output message.

5. REFERENCES

Input Message(s):

ALW:FSYS-MOUNT
OP:ST-FILESYS

Output Message(s):

OP:ST-FILESYS
OP:ST-FREEDISK

Other Manual(s):
235-105-210 Routine Operations and Maintenance

MCC Display Page(s):
(CRAFT FM 01)
**OP:ST-GQPHLNK**

**Software Release:** 5E16(2) and later  
**Command Group:** SIP  
**Application:** 5  
**Type:** Input

### 1. PURPOSE

Requests status for general quad-link packet switch protocol handler links (GQPHLNKs) associated with a particular global switching module (GSM).

### 2. FORMAT

\[
\text{OP:STATUS,GQPHLNK,(LINK=a-b-c-d-e-f|QPIPE=a-b-c-d-e|GQPH=a-b-c-d)};
\]

### 3. EXPLANATION OF MESSAGE

- \(a\) = GSM number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
- \(b\) = Packet switch unit (PSU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
- \(c\) = PSU shelf number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
- \(d\) = GQPH channel group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
- \(e\) = Quad-link packet switch (QLPS) network number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
- \(f\) = Non-global switching module (NGSM) number, noting only an NGSM-2000 is a valid input. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

### 4. SYSTEM RESPONSE

- \(NG\) = No good. May also include:
  - \(\text{NOT A GSM}\) = This response indicates that the input GSM (part of the LINK, QPIPE or GQPH specification) is not a provisioned GSM.
  - \(\text{SM UNEQUIPPED}\) = This response indicates that the input GSM (part of the LINK, QPIPE or GQPH specification) is not even an equipped SM.
- \(PF\) = The request has been accepted. An OP STATUS GQPHLNK output message will follow.
- \(RL\) = Retry later. May also include:
  - \(\text{RL - GSM NOT AVAILABLE}\) = This response indicates that the input GSM (part of the LINK, QPIPE or GQPH specification) is not available, because it is isolated or undergoing an initialization.

### 5. REFERENCES

**235-600-700 December 2003**

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Output Message(s):

OP : ST-GQPHLNK

Input Appendix(es):

APP : RANGES
OP:ST-GQPHPIPE

Software Release: 5E16(2) and later
Command Group: SIP
Application: 5
Type: Input

1. PURPOSE

Requests status for general quad-link packet switch protocol handler (GQPH) QPIPEs on a HOST global switching module (GSM).

2. FORMAT

OP:STATUS,GQPHPIPE,(QPIPE=a-b-c-d-e[,DETAIL]|GQPH=a-b-c-d|GSM=a);

3. EXPLANATION OF MESSAGE

DETAIL = Provides location of parent quad-link packet switch time-multiplex switch link (QTMSLNK) and network link interface (NLI) associated with the specified GQPH QPIPE, in addition to status.

a = GSM number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

b = Packet switch unit (PSU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

c = PSU shelf number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

d = GQPH channel group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

e = Quad-link packet switch (QLPS) network number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

NG = No good. May also include:
- NOT A GSM = This response indicates that the input GSM (possibly part of the QPIPE or GQPH specification) is not a provisioned GSM.
- SM UNEQUIPPED = This response indicates that the input GSM (possibly part of the QPIPE or GQPH specification) is not even an equipped SM.

PF = The request has been accepted. Followed by annnnnnnn OP:ST-GQPHPIPE output message.

RL = Retry later. May also include:
- GSM NOT AVAILABLE = This response indicates that the input GSM (possibly part of the QPIPE or GQPH specification) is not available, because it is isolated or undergoing an initialization.

5. REFERENCES
Output Message(s):

OP: ST-GQPHPIPE

Input Appendix(es):

APP: RANGES
1. PURPOSE

Requests status of the CCS message transport (CMT) connectivity between a specified global switching module (GSM) and one/all child non-global switching modules (NGSMs). CMT is the ability to transport CCS messages internally within the switch. Currently, the only permissible NGSM is the GSM itself.

Note: If the output is not restricted to a single NGSM, it may be restricted by state:
- STATE=ACC for status reports of all accessible NGSMs.
- STATE=INACC for status reports of all inaccessible NGSMs.
- STATE=ALL for status reports of all NGSMs.

Only one of these options, NGSM or STATE (if any) is permitted. If the NGSM is specified, output will be produced regardless of state. The NGSM specified must be the GSM itself. If neither the NGSM or STATE option is specified, the default is the GSM itself with INACC state.

2. FORMAT

OP:STATUS,GSMNET,[GSM=a],[NGSM=b|STATE=c];

3. EXPLANATION OF MESSAGE

a = ISLAND GSM number. If no SM number is specified and only one CCS GSM exists in the office, that GSM will be defaulted. Refer to the APP:RANGES appendix in the APPENDIX section of the Input Messages manual.

b = Specific NGSM (if specified, it must be the same as the GSM). Refer to the APP:RANGES appendix in the APPENDIX section of the Input Messages manual.

c = State restriction. Valid value(s):

ACC = only list GSM/NGSM pairs with CMT connectivity.

INACC = only list GSM/NGSM pairs with no CMT connectivity (default).

ALL = list all provisioned GSM/NGSM pairs.

4. SYSTEM RESPONSE

NG = No good. May also include:
- GSM MUST BE SPECIFIED = No GSM was specified, and there is more than one GSM provisioned in the office.
- INVALID NGSM = The NGSM specified to restrict output is not served by the target GSM. That specified NGSM must be the GSM.
- NO GSM PROVISIONED = No GSM was specified, and there are no GSMS provisioned in the office.
office.
- **NO NGSM PROVISIONED** = No NGSM is provisioned for the identified GSM, which should be a transient condition during a growth/degrowth sequence (with STATUS or no option only).
- **NOT A GSM** = This response indicates that the input GSM is not a provisioned GSM.
- **SM # UNEQUIPPED** = This response indicates that the input GSM is not an equipped SM. This error is only valid for the input GSM.

**PF** = Printout follows. The request has been accepted. Followed by the OP:ST-GSMNET output message.

**RL** = Retry later. May also include:
- **GSM NOT AVAILABLE** = This response indicates that the input GSM is not available, because it is isolated or undergoing an initialization.

### 5. REFERENCES

**Output Message(s):**

OP:ST-GSMNET

**Input Appendix(es):**

APP:RANGES

**Other Manual(s):**

235-190-120 Common Channel Signaling Service Features

**MCC Display Page(s):**

1540 (GSM CMT STATUS)
OP:ST-GSMNET-B

Software Release: 5E15 and later
Command Group: CCS
Application: 5
Type: Input

1. PURPOSE

Requests status of the CCS message transport (CMT) connectivity between a specified global switching module (GSM) and one/all child non-global switching modules (NGSMs). CMT is the ability to transport CCS messages internally within the switch. For an ISLAND GSM, the only permissible NGSM is the GSM itself.

Note: If the output is not restricted to a single NGSM, it may be restricted by state:
- ACC = Status reports of all accessible NGSMs.
- INACC = Status reports of all inaccessible NGSMs.
- ALL = Status reports of all NGSMs.
- DOWN = Status reports indicating one (of two) provisioned TMH paths is unavailable.

Only one of these options, NGSM or STATE (if any) is permitted. If the NGSM is specified, output will be produced regardless of state; the NGSM specified must be the GSM itself. If neither the NGSM or STATE option is specified, the default is the GSM itself with INACC or DOWN state.

2. FORMAT

OP:STATUS,GSMNET,[GSM=a],[NGSM=b|STATE=c];

3. EXPLANATION OF MESSAGE

a = HOST GSM number. If no SM number is specified and only one CCS GSM exists in the office, that GSM will be defaulted. Refer to the APP:RANGES appendix in the APPENDIX section of the Input Messages manual.

b = Specific NGSM (the default is ALL NGSMs). Refer to the APP:RANGES appendix in the APPENDIX section of the Input Messages manual.

c = State restriction. Valid value(s):
- ACC = only list GSM/NGSM pairs with CMT connectivity.
- INACC = only list GSM/NGSM pairs with no CMT connectivity.
- ALL = list all provisioned GSM/NGSM pairs.
- DOWN = only used to indicate one (of two) provisioned TMH paths is unavailable.

4. SYSTEM RESPONSE

NG = No good. May also include:
- GSM MUST BE SPECIFIED = No GSM was specified, and there is more than one GSM provisioned in the office.
- INVALID NGSM = The NGSM specified to restrict output is not served by the target GSM. That specified NGSM must be the GSM.
- NO GSM PROVISIONED = No GSM was specified, and there are no GSMs provisioned in the office.
- **NO NGSM PROVISIONED** = No NGSM is provisioned for the identified GSM, which should be a transient condition during a growth/degrowth sequence (with STATUS or no option only).

- **NOT A GSM** = This response indicates that the input GSM is not a provisioned HOST or ISLAND GSM.

- **SM # UNEQUIPPED** = This response indicates that the input GSM is not an equipped SM. This error is only valid for the input GSM.

**PF** = Printout follows. The request has been accepted. Followed by the OP:ST-GSMNET output message.

**RL** = Retry later. May also include:

- **GSM NOT AVAILABLE** = This response indicates that the input GSM is not available, because it is isolated or undergoing an initialization.

### 5. REFERENCES

Output Message(s):

OP:ST-GSMNET

Input Appendix(es):

APP:RANGES

Other Manual(s):

235-190-120  *Common Channel Signaling Service Features*

MCC Display Page(s):

1540 (GSM CMT STATUS)
OP:ST-ISMNAIL

Software Release: 5E14 and later
Command Group: TRKLN
Application: 5
Type: Input

1. PURPOSE

Outputs the primary and history states of a single inter-SM (switching module) nailup (ISMNAIL), used for packet transport between two SMs.

2. FORMAT

OP:STATUS, ISMNAIL, DLT=a-b, MATEDLT=c-d;

3. EXPLANATION OF MESSAGE

a = SM number (may be the SM associated with either end of the ISMNAIL). Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

b = Data link terminal (DLT) number associated with the source SM.

c = Mate SM number (the other SM associated with the ISMNAIL). Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

d = DLT number associated with the mate SM.

4. SYSTEM RESPONSE

NG = No good. May also include:
- SM ## NOT IN THE ISM NETWORK = The request has been denied. Either the source or the destination SM or both have no ISMNAILS associated with it.

PF = Printout follows. The request has been accepted. Followed by the OP:ST-ISMNAIL output message.

RL = Retry later. The request cannot be executed immediately because the automatic task administrator (ATA) cannot currently schedule a new task; retry later, when system load is reduced.

5. REFERENCES

Output Message(s):

OP:ST-ISMNAIL

Input Appendix(es):

APP:RANGES
OP:ST-ISMTS
Software Release: 5E14 and later
Command Group: TRKLN
Application: 5
Type: Input

1. PURPOSE

Outputs the inter-SM (switching module) timeslot (ISMTS) usage of inter-SM nailups (ISMNAIL), used for packet transport between two SMs.

Network side timeslot inter-change unit (TSIU) timeslot usage is provided; this corresponds to time multiplexed switch (TMS) timeslot usage in a local switching module (LSM), host switching module (HSM), optically remoted module (ORM), and/or trunk remoted module (TRM), noting the HSM count will include usage due to ISMNAILs terminating on child remote switching modules (RSMs). Also provides peripheral interface data bus (PIDB) timeslot usage, parsed on a packet switch unit (PSU) shelf basis.

2. FORMAT

OP:STATUS,ISMTS,SRCSM=a;

3. EXPLANATION OF MESSAGE

a = Source SM number for which timeslot usage is required.

4. SYSTEM RESPONSE

NG = No good. May also include:
- SM ## NOT IN THE ISM NETWORK = The request has been denied. The source SM designated has no ISMNAIL resources associated with it.
- SM NOT EQUIPPED = The request has been denied. The source SM is not equipped in the office.

PF = Printout follows. The request has been accepted. Followed by the OP:ST-ISMTS output message.

5. REFERENCES

Output Message(s):

OP:ST-ISMTS
OP:ST-ISUP

Software Release: 5E14 and later
Command Group: CCS
Application: 5
Type: Input

1. PURPOSE

Requests a report of the on/off status of the integrated services digital network (ISDN) user part (ISUP) events trapping and printing.

ISUP traps can be turned on with the SET:ISUP input message and turned off with the CLR:ISUP input message. Events are reported in the REPT:ISUP output message.

2. FORMAT

OP:STATUS,ISUP=ATPUUI;

3. EXPLANATION OF MESSAGE

ATPUUI = Access transport parameter (ATP) user-to-user information (UUI).

4. SYSTEM RESPONSE

PF = Printout follows. The request was received and is followed by the OP:ST-ISUP output message.

5. REFERENCES

Input Message(s):
CLR:ISUP
SET:ISUP

Output Message(s):
OP:ST-ISUP
REPT:ISUP

Other Manual(s):
235-070-100 Administration and Engineering Guidelines
OP:ST-LI

Software Release: 5E14 and later
Command Group: CM
Application: 5
Type: Input

1. PURPOSE

Requests information from internal registers of the link interface (LI) or the specified office network and timing complex (ONT) side.

Note: This message is only valid for communication module model 1 (CM1) hardware.

2. FORMAT

OP:STATUS, LI=a;

3. EXPLANATION OF MESSAGE

a = ONTC side that the LI is on.

4. SYSTEM RESPONSE

NG = No good. The request has been denied. The message syntax is valid but the request could not be processed. Refer to the APP:CM-IM-REASON appendix in the Appendixes section of this manual for a list of possible reasons for denying the request.

PF = Printout follows.

RL = Retry later. The request cannot be executed now because the communication module (CM) deferred maintenance queue (DMQ) is full.

5. REFERENCES

Input Appendix(es):

APP:CM-IM-REASON
OP:ST-LISTDIR

Software Release: 5E14 and later
Command Group: FHADM
Application: 5,3B
Type: Input

1. PURPOSE

Requests the contents of a specific directory or file.

2. FORMAT

OP:STATUS, LISTDIR, FN="a", OPL=b;

3. EXPLANATION OF MESSAGE

a = Pathname of the directory or file.
b = Number of segments to be output, specified in decimal. Default=10 segments; maximum=999. Each segment has a maximum size of 1000 bytes or 20 lines.

4. SYSTEM RESPONSE

PF = Printout follows. Followed by the OP:ST-LISTDIR output message.

5. REFERENCES

Input Message(s):
   ALW:FSYS-ACCESS

Output Message(s):
   OP:ST-LISTDIR

Other Manual(s):
   235-105-210 Routine Operations and Maintenance

MCC Display Page(s):
   (CRAFT FM 01)
OP:ST-MD

Software Release: 5E14 and later
Command Group: CCS
Application: 5
Type: Input

1. PURPOSE

Requests status of the common channel signaling (CCS) message delivery (MD) network. The status of the intra-global switching module (GSM) MD path is printed.

Note: This input message is applicable only for packet switching unit (PSU) platform CCS7.

2. FORMAT

OP: STATUS, MD[, SM=a];

3. EXPLANATION OF MESSAGE

a = GSM number. CCS GSM number from which the data is desired. If no SM number is specified and one/more CCS GSMs exist in the office, the output will be produced for all CCS GSMs in the office.

4. SYSTEM RESPONSE

NG = No good. May also include:
   - SM SPECIFIED MUST BE A GSM = The specified SM is equipped, but is not a GSM.
   - SM x UNEQUIPPED = The specified SM is not equipped, where 'x' is the SM entered in the input message.
   - NO GLOBAL SM = No GSM is provisioned in the office.

RL = Retry later. Valid value is:
   - SM x CURRENTLY UNAVAILABLE = Command cannot be processed because the specific GSM is not accessible.

PF = Printout follows. Followed by the OP:STATUS-MD output message.

5. REFERENCES

Output Message(s):

OP:ST-MD

Other Manual(s):
235-190-120 Common Channel Signaling Service Features

MCC Display Page(s):
1530 (GLOBAL SM MESSAGE DELIVERY STATUS)
OP:ST-MELNK

Software Release: 5E14 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Requests a printout of the maintenance state of the MCTSI-based ethernet links (MELNKs) and MCTSI-based ethernet pipes (MEPIPEs) on a switching module (SM).

2. FORMAT

OP:STATUS,MELNK,SM=a[&b] [,OFFNORM] [,NOFE] [,NOPRINT];

3. EXPLANATION OF MESSAGE

a

= SM number, or the lower limit of a range of SM numbers. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

b

= The upper limit of a range of SM numbers. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

OFFNORM

= Off normal. Reports only equipped MEPIPEs/MELNKs that are not in the active state.

NOFE

= Not family of equipment. Same as OFFNORM except OOSFE (out of service family of equipment) MELNKs are not printed.

NOPRINT

= No print. This option suppresses printing of the OP:ST-MELNK output response when no accessible SMs in an SM range have equipped MELNKs. When used with the OFFNORM or NOFE options, NOPRINT also suppresses printing of the OP:ST-MELNK output response from SMs with no MEPIPEs or MELNKs in an off normal condition.

4. SYSTEM RESPONSE

NG

= No good. Valid qualifiers are:
  - NO SUCH SM = Input command specified an SM that does not exist.
  - SM UNEQ = Input command specified an SM that is unequipped.
  - UNIT UNEQ = Input command specified an SM with no equipped MELNKs.

RL

= Retry later. The request cannot be executed now due to unavailable system resources. Optional additional qualifiers are:
  - SM ISOLATED = Cannot communicate with requested SM.
  - CANNOT CREATE TERMINAL PROCESS = The request cannot be executed now due to the unavailability of the system resources necessary for creating a terminal process.

PF

= Printout follows. An OP:ST-MELNK output message will follow in response to the request.

5. REFERENCES
Output Message(s):

OP: ST-MELNK

Input Appendix(es):

APP: RANGES

MCC Display Page(s):

1204 (MELNK STATUS)
OP:ST-MI-A

Software Release: 5E14 only
Command Group: CM
Application: 5
Type: Input

1. PURPOSE

Requests the hardware state of the message interface (MI).

2. FORMAT

   OP:STATUS,MI=a,b;

3. EXPLANATION OF MESSAGE

   a   = Office network and timing complex (ONTC) side (0 or 1).
   b   = Hardware states. Valid value(s):
       ALL    = All hardware states.
       REGS   = MI registers.
       TS1H   = First half time slots.
       TS2H   = Second half time slots.

4. SYSTEM RESPONSE

   NG    = No good. Request is valid but there is a hardware problem.
   PF    = Printout follows. Request accepted and in progress; printout follows.
   RL    = Retry later. MI configuration (MICON) was aborted while processing the input request.

5. REFERENCES

Output Message(s):

   OP:ST-MI
1. PURPOSE

Requests the hardware state of the message interface (MI).

This command is not applicable in Communication Module 3 (CM3) office.

2. FORMAT

OP:STATUS,MI=a,b;

3. EXPLANATION OF MESSAGE

a = Office network and timing complex (ONTC) side (0 or 1).

b = Hardware states. Valid value(s):
   ALL = All hardware states.
   REGS = MI registers.
   TS1H = First half time slots.
   TS2H = Second half time slots.

4. SYSTEM RESPONSE

NG = No good. Request is valid but there is a hardware problem.

PF = Printout follows. Request accepted and in progress; printout follows.

RL = Retry later. MI configuration (MICON) was aborted while processing the input request.

5. REFERENCES

Output Message(s):

OP:ST-MI
OP:ST-NGSMNET-A
Software Release: 5E14 only
Command Group: CCS
Application: 5
Type: Input

1. PURPOSE

Requests status of the CCS message transport (CMT) connectivity between a specified non-global switching module (NGSM) and one/more of its associated global switching modules (GSM). CMT is the ability to transport CCS messages internally within the switch. Currently, the only permissible NGSM is a GSM itself.

Note: If the output is not restricted to a single GSM, it may be restricted by state:
- STATE=ACC for status reports of all associated accessible GSMs.
- STATE=INACC for status reports of all associated inaccessible GSMs.
- STATE=ALL for status reports of all associated GSMs.

Only one of these options, GSM or STATE (if any) is permitted. If the GSM is specified, output will be produced regardless of state. The GSM specified must be the NGSM itself. If neither the GSM or STATE option is specified, the default is all provisioned GSMs with INACC state.

2. FORMAT

OP:STATUS,NGSMNET,NGSM=a,[GSM=b|STATE=c];

3. EXPLANATION OF MESSAGE

a = NGSM number (a ISLAND GSM can function as a NGSM and currently only this case will be allowed as an input). Refer to the APP:RANGES appendix in the APPENDIX section of the Input Messages manual.

b = Specific ISLAND GSM (only the specified NGSM is allowed). Refer to the APP:RANGES appendix in the APPENDIX section of the Input Messages manual.

c = State restriction. Valid value(s):
  ACC = only list GSM/NGSM pairs with CMT connectivity.
  INACC = only list GSM/NGSM pairs with no CMT connectivity (default).
  ALL = list all GSM/NGSM pairs.

4. SYSTEM RESPONSE

PF = Printout follows. The request has been accepted. Followed by the OP:ST-NGSMNET output message.

RL = Retry later. May also include:
- NGSM NOT AVAILABLE = This response indicates that the input NGSM is not available, because it is isolated or undergoing an initialization.
- INVALID GSM = The GSM specified to restrict output is not provisioned to serve the specified NGSM.
- NOT A NGSM = This response indicates that the input SM number is not a NGSM (such as, on
intra-SM MD link is not provisioned to serve this SM).

- \textbf{SM \# UNEQUIPPED} = This response indicates that the input NGSM is not an equipped SM. This error is only valid for the input NGSM.

\section*{5. REFERENCES}

\textbf{Output Message(s)}:

\textbf{OP: ST-NGSMNET}

\textbf{Input Appendix(es)}:

\textbf{APP: RANGES}

\textbf{Other Manual(s)}:

235-190-120 \textit{Common Channel Signaling Service Features}

\textbf{MCC Display Page(s)}:

1541 (NGSM CMT STATUS)
OP:ST-NGSMNET-B

Software Release: 5E15 and later
Command Group: CCS
Application: 5
Type: Input

1. PURPOSE

Requests status of the CCS message transport (CMT) connectivity between a specified non-global switching module (NGSM) and one/more of its associated global switching modules (GSM). CMT is the ability to transport CCS messages internally within the switch. For an ISLAND GSM, the only permissible NGSM is the GSM itself.

Note: If the output is not restricted to a single GSM, it may be restricted by state:
- ACC = Status reports of all associated accessible GSMs.
- INACC = Status reports of all associated inaccessible GSMs.
- ALL = Status reports of all associated GSMs.
- DOWN = Status reports to indicate one (of two) provisioned TMH paths is unavailable.

Only one of these options, GSM or STATE (if any) is permitted. If the GSM is specified, output will be produced regardless of state; the GSM specified must be the NGSM itself. If neither the GSM or STATE option is specified, the default is all provisioned GSMs with INACC or DOWN state.

2. FORMAT

OP:STATUS,NGSMNET,NGSM=a,[GSM=b|STATE=c];

3. EXPLANATION OF MESSAGE

a = NGSM number (a HOST/ISLAND GSM can function as a NGSM and will be allowed as an input). Refer to the APP:RANGES appendix in the APPENDIX section of the Input Messages manual.

b = Specific ISLAND GSM (only the specified NGSM is allowed). Refer to the APP:RANGES appendix in the APPENDIX section of the Input Messages manual.

c = State restriction. Valid value(s):
- ACC = only list GSM/NGSM pairs with CMT connectivity.
- INACC = only list GSM/NGSM pairs with no CMT connectivity.
- ALL = list all GSM/NGSM pairs.
- DOWN = only used to indicate one (of two) provisioned TMH paths is unavailable.

4. SYSTEM RESPONSE

NG = No good. May also include:
- INVALID GSM = The GSM specified to restrict output is not provisioned to serve the specified NGSM.
- NOT A NGSM = This response indicates that the input SM number is not a NGSM (such as, on intra-SM MD link is not provisioned to serve this SM).
- SM # UNEQUIPPED = This response indicates that the input NGSM is not an equipped SM. This error is only valid for the input NGSM.
PF = Printout follows. The request has been accepted. Followed by the OP:ST-NGSMNET output message.

RL = Retry later. May also include:
  - NGSM NOT AVAILABLE = This response indicates that the input NGSM is not available, because it is isolated or undergoing an initialization.

5. REFERENCES

Output Message(s):

  OP:ST-NGSMNET

Input Appendix(es):

  APP:RANGES

Other Manual(s):

  235-190-120   Common Channel Signaling Service Features

MCC Display Page(s):

  1541 (NGSM CMT STATUS)
OP:ST-PLNT24

Software Release: 5E14 and later
Command Group: MEAS
Application: 5
Type: Input

1. PURPOSE

Requests the print status of all parts of the 24-hour plant report.

2. FORMAT

OP:STATUS,PLNT24;

3. EXPLANATION OF MESSAGE

No variables.

4. SYSTEM RESPONSE

PF = Printout follows. Followed by the OP:ST-PLNT24 output message.

5. REFERENCES

Input Message(s):

ALW:PLNT24
INH:PLNT24
OP:PLNT24

Output Message(s):

OP:ST-PLNT24

Other Manual(s):
235-070-100 Administration and Engineering Guidelines
OP:ST-PORTS
Software Release: 5E14 and later
Command Group: MAINT
Application: 5,3B
Type: Input

1. PURPOSE
Requests the status of each connected administrative module (AM) message port.

2. FORMAT
OP:STATUS,PORTS;

3. EXPLANATION OF MESSAGE
No variables.

4. SYSTEM RESPONSE
PF = Printout follows. Followed by the OP:ST-PORTS output message.

5. REFERENCES
Output Message(s):
   OP:ST-PORTS

MCC Display Page(s):
   (CRAFT FM 01)
OP:ST-PROC

Software Release: 5E14 and later
Command Group: MAINT
Application: 5,3B
Type: Input

1. PURPOSE

Requests the status of active processes by specific class.

2. FORMAT

OP:STATUS,PROCESS,{ALLTERMS|ALLKERNS|ALL|PATH}[,OPL=a];

3. EXPLANATION OF MESSAGE

ALL

= Same as ALLTERMS, plus process group leaders; that is, all non-kernel level processes. Pathname lengths are consistent with the PS(2G) input message using the -l option.

ALLKERNS

= Report detailed operational status of all kernel processes. Also prints the parent process identification (PID).

ALLTERMS

= Report detailed operational status of all processes associated with terminals. Pathname lengths are consistent with the PS(2G) input message using the -l option.

PATH

= Report full pathnames and invoking process arguments with process identifiers and possible terminal suffixes of all non-kernel level processes. Also prints the parent PID.

a

= Number of segments to be output, specified in decimal. Default = 10 segments; maximum = 999. Each segment has a maximum size of 1000 bytes or approximately 12 lines.

4. SYSTEM RESPONSE

PF

= Printout follows. Followed by the OP:ST-PROC output message.

5. REFERENCES

Input Message(s):

STOP:EXC-ANY
STOP:EXC-USER

Output Message(s):

OP:ST-PROC

Other Manual(s):
235-105-210  Routine Operations and Maintenance
MCC Display Page(s):

(CRAFT FM 01)
OP:ST-PSALNK

Software Release: 5E16(2) and later
Command Group: MAINT
Application: 5
Type: Input

1. PURPOSE

Requests the output of the current link status and other information of a single asynchronous transfer mode (ATM) link (PSALNK) or the output of the current status of a group of ATM links.

With the exception of Format 1, output can be limited to those links with a specific ATM link status.

2. FORMAT

[1] OP:STATUS,PSALNK=a-b-c[,d];

[2] OP:STATUS,PSALNK,SM=a[,d];


[4] OP:STATUS,PSALNK,PSU=a-b[,d];

[5] OP:STATUS,PSALNK,PSU=a-b,UNAV,NOPRINT;

3. EXPLANATION OF MESSAGE

a = Switching module (SM) number. A range of SMs can be specified for Formats 2 and 3. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
b = PSU number.
c = ATM link number.
d = Find only link(s) or channel(s) whose status is this value. Valid value(s):
OFFNORM = Off normal. Includes OOS links and duplex links with only one channel in service.
OOS = Out-of-service. Links with no members in service.
UNAV = Unavailable. Channel is manually made unavailable by the SET:PSALNK input message.

4. SYSTEM RESPONSE

NG = No good. The request has been denied. The message is valid but the request conflicts with current equipage or status.
PF = Printout follows. Followed by the OP:STATUS output message.
RL = Retry later. The request cannot be executed now due to unavailable system resources.
5. REFERENCES

Output Message(s):

OP: ST–PSALNK
OP: CONV–PSALNK

Input Appendix(es):

APP: RANGES

MCC Display Page(s):
1187,y,x PSU/ATM LINKS STATUS (where y=PSU number and x=SM number)
OP:ST-PSELNK

Software Release: 5E16(1) and later
Command Group: MAINT
Application: 5
Type: Input

1. PURPOSE

An ethernet link is defined by the SM, PSU to which it is connected and link number.

Format 1 requests the status of given ethernet link. Format 2 requests the status of all the ethernet links on a given SM and also the range of SMs. If option \(d\) is specified then the output includes all the links with that given status.

2. FORMAT

\[1\] \text{OP:STATUS,PSELNK=a-b-c;}

\[2\] \text{OP:STATUS,PSELNK,SM=a Range...[,d];}

3. EXPLANATION OF MESSAGE

\(a\) = Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

\(b\) = Packet switch unit (PSU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

\(c\) = Ethernet link number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

\(d\) = Status of the link which is either OOS or ACT. Valid value(s):

- \(\text{OOS}\) = Out-of-service.
- \(\text{ACT}\) = Active.

4. SYSTEM RESPONSE

\(\text{NG}\) = No good. The request has been denied. The message is valid but the request conflicts with current equipage or status.

\(\text{PF}\) = Printout follows. Followed by the OP:STATUS output message.

\(\text{RL}\) = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

Input Appendix(es):

\text{APP:RANGES}

Output Message(s):

\text{OP:ST-PSELNK}
1. PURPOSE

Requests the output of the current link status and other information of a single packet switch unit (PSU) link (PSLNK); or the output of the current status of a group of PSU links.

A PSU link is uniquely identified by the community addresses (CAs) of two PSUs that this PSU link connects. The near end PSU CA can be directly entered in the input message line, or can be translated by the switch from the entered PSU equipment number or switching module (SM) number. However, the far end CA cannot be specified by the PSU equipment number.

If only the near end PSU CA(s) is given or can be translated, then the status of all PSU links originating from the given or translated near end PSU CA(s) to all existing far end PSU CA(s) will be reported. Entering the far end PSU CA (optional) will give a more selective and expanded report of a particular PSU link status and other information.

With the exception of Formats 8 through 10, output can be limited to those links with a specific PSU link status.

NOTE: For gateway protocol handlers (PH) the only valid input message format is # 11. Other formats will not yield the expected results.

2. FORMAT

[1] OP:STATUS,PSLNK=a-b[,c];
[2] OP:STATUS,PSLNK,PSUCA=a,FARCA=b[,c];
[3] OP:STATUS,PSLNK,PSU=d-0,FARCA=b[,c];
[4] OP:STATUS,PSLNK,SM=d,FARCA=b[,c];
[5] OP:STATUS,PSLNK,PSUCA=a[,c];
[6] OP:STATUS,PSLNK,PSU=d-0[,c];
[7] OP:STATUS,PSLNK,SM=d[,c];
[8] OP:STATUS,PSLNK,PSU=d-0,UNAV,NOPRINT;
[9] OP:STATUS,PSLNK,PSUCA=a,UNAV,NOPRINT;

3. EXPLANATION OF MESSAGE

NOPRINT = No print. When specified with the UNAV state (variable 'c'), this option suppresses the printing of the response message if no PSU link has any channel in UNAV state.

a = Near PSU community address of the PSU link.
b = Far PSU community address of the PSU link.

c = Find only link(s) or channel(s) whose status is this value.

Note: Since Formats 1 through 4 request the status of one specific link, the status will always be printed regardless of the link state. This means that variable 'c' is ignored for these formats.

Valid value(s):
OFF’NORM = Off normal. Includes OOS links and duplex links with only one channel in service.
OOS = Out-of-service. Links with no members in service.
UNAV = Unavailable. Channel is manually made unavailable by the SET:PSLNK input message.

d = Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

NG = No good. The request has been denied. The message is valid but the request conflicts with current equipage or status.

PF = Printout follows. Followed by the OP:STATUS output message.

RL = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

Input Appendix(es):
APP : RANGES

Output Message(s):
OP : ST-PSLNK

MCC Display Page(s):
PSU LINKS STATUS
OP:ST-PSLNK-B

Software Release: 5E16(1) and later
Command Group: MAINT
Application: 5
Type: Input

1. PURPOSE

Requests the output of the current link status and other information of a single packet switch unit (PSU) link (PSLNK); or the output of the current status of a group of PSU links.

A PSU link is uniquely identified by the community addresses (CAs) of two PSUs that this PSU link connects. The near end PSU CA can be directly entered in the input message line, or can be translated by the switch from the entered PSU equipment number or switching module (SM) number. However, the far end CA can not be specified by the PSU equipment number.

If only the near end PSU CA(s) is given or can be translated, then the status of all PSU links originating from the given or translated near end PSU CA(s) to all existing far end PSU CA(s) will be reported. Entering the far end PSU CA (optional) will give a more selective and expanded report of a particular PSU link status and other information.

With the exception of Formats 8 through 10, output can be limited to those links with a specific PSU link status.

For gateway protocol handlers (PH) the only invalid input message format is number 3. This format will not yield the expected results.

2. FORMAT

[1] OP:STATUS,PSLNK=a-b[,c];

[2] OP:STATUS,PSLNK,PSUCA=a,FARCA=b[,c];

[3] OP:STATUS,PSLNK,PSU=d-e,FARCA=b[,c];

[4] OP:STATUS,PSLNK,SM=d,FARCA=b[,c];

[5] OP:STATUS,PSLNK,PSUCA=a[,c];

[6] OP:STATUS,PSLNK,PSU=d-e[,c];

[7] OP:STATUS,PSLNK,SM=d[,c];

[8] OP:STATUS,PSLNK,PSU=d-e,UNAV,NOPRINT;

[9] OP:STATUS,PSLNK,PSUCA=a,UNAV,NOPRINT;

3. EXPLANATION OF MESSAGE

NOPRINT = This option suppresses the printing of the response message if no PSU link has any channel in UNAV state.

a = Near PSU community address of the PSU link.

b = Far PSU community address of the PSU link.

c = Find only link(s) or channel(s) whose status is this value.

Since Formats 1 through 4 request the status of one specific link, the status will always be printed regardless of the link state. This means that variable ‘c’ is ignored for these formats.

Valid value(s):
OFFNORM = Off normal. Includes OOS links and duplex links with only one channel in service.
OOS = Out-of-service. Links with no members in service.
UNAV = Unavailable. Channel is manually made unavailable by the SET:PSLNK input message.

d = Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

e = PSU number.

4. SYSTEM RESPONSE

NG = No good. The request has been denied. The message is valid but the request conflicts with current equipage or status.

PF = Printout follows. Followed by the OP:STATUS output message.

RL = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

Output Message(s):

OP:ST-PSLNK
OP:CONV-PSLNK

Input Appendix(es):

APP:RANGES

MCC Display Page(s):
1187.y PSU LINKS STATUS (where y=PSU number)
OP:ST-QPHLNK
Software Release: 5E15 and later
Command Group: CCS
Application: 5
Type: Input

1. PURPOSE
Requests status for quad-link packet switch protocol handler links (QPHLNKs) associated with a particular global switching module (GSM).

Note: One of the following parameters must be specified to limit the scope of the response:
- LINK = Produces status for an individual QPHLNK.
- QPIPE = Produces status for all QPHLNKs associated with a QPH QPIPE.
- QPH = Produces status for all QPHLNKs associated with a QPH.

2. FORMAT
OP:STATUS,QPHLNK,(LINK=a-b-c-d-e-f|QPIPE=a-b-c-d-e|QPH=a-b-c-d);

3. EXPLANATION OF MESSAGE
a = GSM number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
b = Packet switch unit (PSU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
c = PSU shelf number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
d = QPH channel group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
e = Quad-link packet switch (QLPS) network number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
f = Non-global switching module (NGSM) number, noting only an NGSM-2000 is a valid input. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE
OP:STATUS,QPHLNK output message will follow. Valid value(s) are:
- PF = The request has been accepted. An OP:STATUS,QPHLNK output message will follow.
- NG - SM UNEQUIPPED = This response indicates that the input GSM (part of the LINK, QPIPE or QPH specification) is not even an equipped SM.
- NG - NOT A GSM = This response indicates that the input GSM (part of the LINK, QPIPE or QPH specification) is not a provisioned GSM.
- RL - GSM NOT AVAILABLE = This response indicates that the input GSM (part of the LINK, QPIPE or QPH specification) is not available, because it is isolated or undergoing...
an initialization. Retry later.

5. REFERENCES

Output Message(s):

   OP  STATUS  QPHLNK

Input Appendix(es):

   APP : RANGES

Other Manual(s):
235-200-116   5ESS Switch Signaling Gateway Common Channel Signaling
OP:ST-QPHPIPE

Software Release: 5E15 and later
Command Group: CCS
Application: 5
Type: Input

1. PURPOSE

Requests status for quad-link packet switch protocol handler (QPH) QPIPEs on a HOST global switching module (GSM).

Note: One of the following parameters must be specified to limit the scope of the response:
- QPIPE = Produces status for an individual QPH QPIPE.
- QPH = Produces status for both QPH QPIPEs on a QPH channel group.
- GSM = Produces status of all equipped QPH QPIPEs on a HOST GSM.

2. FORMAT

OP: STATUS, QPHPIPE, (QPIPE=a-b-c-d-e[, DETAIL] | QPH=a-b-c-d | GSM=a); ;

3. EXPLANATION OF MESSAGE

DETAIL = Provides location of parent quad-link packet switch time-multiplex switch link (QTMSLNK) and network link interface (NLI) associated with the specified QPH QPIPE, in addition to status.

a = GSM number. Refer to the APP: RANGES appendix in the Appendixes section of the Input Messages manual.
b = Packet Switch Unit (PSU) number. Refer to the APP: RANGES appendix in the Appendixes section of the Input Messages manual.
c = PSU shelf number. Refer to the APP: RANGES appendix in the Appendixes section of the Input Messages manual.
d = QPH channel group number. Refer to the APP: RANGES appendix in the Appendixes section of the Input Messages manual.
e = Quad-link Packet Switch (QLPS) network number. Refer to the APP: RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

PF = The request has been accepted. An OP: STATUS, QPHPIPE output message will follow.

NG - SM UNEQUIPPED = This response indicates that the input GSM (possibly part of the QPIPE or QPH specification) is not even an equipped SM.

NG - NOT A GSM = This response indicates that the input GSM (possibly part of the QPIPE or QPH specification) is not a provisioned GSM.

RL - GSM NOT AVAILABLE = This response indicates that the input GSM (possibly part of the QPIPE or QPH
specification) is not available, because it is isolated or undergoing an initialization. Retry later.

5. REFERENCES

Output Message(s):

OP STATUS QPHPIPE

Input Appendix(es):

APP: RANGES

Other Manual(s):
235-200-116  5ESS Switch Signaling Gateway Common Channel Signaling
1. PURPOSE

Requests the status of one or more near endpoint(s) and service selection for the associated session initiation protocol for telephony protocol handler (SIP-T PH) or the status of one or more association(s) and the associated paths. There are 5 formats that are available to produce status reports depending on the specified characteristics. These include:

- A specific endpoint.
- All endpoints in the office.
- A specific association.
- A specific association including the path status.
- All associations in the office.
- All associations in a specified association Set.

2. FORMAT

1. \[1\] OP:STATUS,SCTP,NEAREPT=a[,DETAIL];
2. \[2\] OP:STATUS,SCTP,NEAREPT,ALL;
3. \[3\] OP:STATUS,SCTP,ASSOC=b[,PATHS];
4. \[4\] OP:STATUS,SCTP,ASSOC,ALL;
5. \[5\] OP:STATUS,SCTP,ASSOCSET=c;

3. EXPLANATION OF MESSAGE

ALL = Get the status for all the endpoints or associations.

DETAIL = Get the status, association set and far endpoint for all the associations assigned to that near endpoint.

PATHS = Get the paths status for the association.

a = Endpoint name. This is a character string (<=20) that is provisioned on RC/V View 33.19 (SCTP NEAR END POINT).

b = Association number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

c = Association set name. This is a character string (<=20) that is provisioned on RC/V View 33.23 (ASSOCIATION SET).
4. SYSTEM RESPONSE

NG = No good. The request has been denied. May also include:
- INVALID NEAR ENDPOINT NAME = Specified endpoint not provisioned on any SM.
- INVALID ASSOCIATION ID = Specified association not provisioned on any SM.
- INVALID ASSOCIATION SET NAME = Specified association set not provisioned on any SM.
- DATABASE ERROR = Database error.
- INTERNAL ERROR = Unknown request type.

PF = Printout follows. Followed by the OP:ST-SCTP output message.

RL = Retry later. May also include:
- AM OVERLOAD = AM in real-time overload. Unable to process request.
- CONFLICTING REQUEST RUNNING = Cannot process request until running OP:ST-SCTP request completes
- FAILED TO CREATE PROCESS = The process that would service the request could not be created, or did not receive the request, probably due to system load.
- SM INACCESSIBLE = SM is not available (for example, isolation, initialization, and so forth).
- SYSTEM ERROR = System error encountered. Please retry later.
- TOO MANY PROCESSES ACTIVE = A process to service the request cannot be created because the maximum number of active maintenance processes has been reached.

5. REFERENCES

Output Message(s):

OP:ST-SCTP

Input Appendix(es):

APP:RANGES

RC/V View(s):
33.19     SCTP NEAR END POINT
33.23     ASSOCIATION SET
OP:ST-SERV

Software Release: 5E16(2) and later
Command Group: MAINT
Application: 5
Type: Input

1. PURPOSE

Requests the service selection status of a processor group by either specifying a processor group, range of processor groups or a processor in a processor group.

The output from this request will provide the service selection state, ethernet link state and ping state of each processor in the processor group or groups requested.

2. FORMAT

OP:STATUS,SERV,{PCRGRP={a-b[&&b]|PSUPH=a-c-d-e};

3. EXPLANATION OF MESSAGE

a = Global services module (GSM) on which the processor group is equipped.

b = Processor group. Valid value(s):
   b = A specific processor group on a GSM.
   b&&b = Range of processor groups on a GSM.

   c = Packet switching unit (PSU) number.

   d = PSU shelf number.

   e = PH position number.

4. SYSTEM RESPONSE

?D = Input data error.
PF = Printout follows.
RL = Retry later.

5. REFERENCES

Output Message(s):

OP:ST-SERV

Input Appendix(es):

APP: RANGES
OP:ST-SUM

Software Release: 5E14 and later
Command Group: FHADM
Application: 5,3B
Type: Input

1. PURPOSE
Requests a 16-bit checksum for a specified file, and prints the number of blocks in the file. This message is typically used to look for bad spots on a disk or to confirm that a file sent using a transmission line has been completely received.

2. FORMAT
OP:STATUS,SUM,FN="a";

3. EXPLANATION OF MESSAGE

a = Pathname of the file.

4. SYSTEM RESPONSE
PF = Printout follows. Followed by the OP:ST-SUM output message.

5. REFERENCES
Input Message(s):
OP:ST-DISKUSE
OP:ST-LISTDIR

Output Message(s):
OP:ST-DISKUSE
OP:ST-LISTDIR
OP:ST-SUM

Other Manual(s):
235-105-210 Routine Operations and Maintenance

MCC Display Page(s):
(CRAFT FM 01)
OP:ST-TRFC30

Software Release: 5E14 and later
Command Group: MEAS
Application: 5
Type: Input

1. PURPOSE
Requests the status of all sections of the 30-minute traffic report.

2. FORMAT

OP:STATUS,TRFC30;

3. EXPLANATION OF MESSAGE
No variables.

4. SYSTEM RESPONSE

PF = Printout follows. Followed by the OP:ST-TRFC30 output message.

5. REFERENCES

Input Message(s):

ALW:TRFC30
INH:TRFC30
OP:TRFC30

Output Message(s):

OP:ST-TRFC30

Input Appendix(es):

APP:TRFC-SECTION

Output Appendix(es):

APP:TRFC-SECTION

Other Manual(s):
235-070-100   Administration and Engineering Guidelines
1. PURPOSE

Requests the output of the print mode, overload status, and initialization summary information for the specified packet interface (PI) of the module controller time slot interchanger (MCTSI) or packet switching unit protocol handler (PSUPH).

If the status of an out-of-service PSUPH or PI is requested, only the information stored in the switching module (SM) will be printed. The unequipped units will report configuration status of "UNEQ" only.

2. FORMAT

OP:STATUS, {PSUPH=a-b-c-d|CHNG=a-b-c-e|MCTSI=a-f,PI};

3. EXPLANATION OF MESSAGE

Note: Refer to the Acronym section of the Input Messages manual for the full expansion of acronyms shown in the format.

a = SM number.
b = PSU unit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
c = PSU shelf number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
d = PSUPH number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
e = Channel group (CHNG) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
f = MCTSI side number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

NG = No good. The message was not accepted because the SM is isolated or the equipment does not exist.
NO = Feature not available. The requested action failed because the feature required to process the request is not present in the module.
PF = Printout follows. The message was accepted and a printout will follow.
5. REFERENCES

Input Message(s):

   CHG: PRNTMODE

Output Message(s):

   OP: ST

Input Appendix(es):

   APP: RANGES

Other Manual(s):

235-105-110  System Maintenance Requirements and Tools
1. PURPOSE

Requests that the status of automatic customer station rearrangement (ACSR) enqueuing and dequeueing be printed. To show whether the ACSR queue is full or not, and/or whether customer originated recent change (CORC) is allowed or inhibited.

2. FORMAT

   \texttt{OP:STAT,\{CORC\mid ACSR\mid CORC,ACSR\};}

3. EXPLANATION OF MESSAGE

   \texttt{CORC} = Print the status for CORC.

   \texttt{ACSR} = Print the statuses for ACSR.

4. SYSTEM RESPONSE

   \texttt{PF} = Printout follows. Followed by the OP:STAT output message.

5. REFERENCES

Input Message(s):

   \texttt{ALW:ACSR}
   \texttt{INH:ACSR}

Output Message(s):

   \texttt{OP:STAT}
### 1. PURPOSE

Requests the output of the current status history for a specified trunk, line, data link, or operator services position system port (OSPSPORT). Output will include trunk, line, data link, or OSPSPORT identification (logical and terminal names), primary status, the time the primary status went into effect, and any pending status(es) associated with the trunk, line, data link, or OSPSPORT.

### 2. FORMAT

\[ \text{OP:STATUS, a[, CH=b]}; \]

### 3. EXPLANATION OF MESSAGE

#### Note:
Refer to the Acronym section of the Input Messages manual for the full expansion of acronyms shown in the format.

\[ a \quad = \text{Equipment number or identifier. Valid value(s):} \]

<table>
<thead>
<tr>
<th>Acronym</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>AIUEN</td>
<td>j-c^{2}-g^{2}-e^{2}</td>
</tr>
<tr>
<td>AGET</td>
<td>g</td>
</tr>
<tr>
<td>DASC</td>
<td>c-d</td>
</tr>
<tr>
<td>EIS</td>
<td>e-f</td>
</tr>
<tr>
<td>ILEN</td>
<td>j-1^{1}-n^{1}</td>
</tr>
<tr>
<td>LCKEN</td>
<td>j-b^{2}-p-t^{1}-u^{1}</td>
</tr>
<tr>
<td>MLHG</td>
<td>x-y</td>
</tr>
<tr>
<td>OAFO</td>
<td>h</td>
</tr>
<tr>
<td>PRIGRP</td>
<td>j^{1}</td>
</tr>
<tr>
<td>RTRS</td>
<td>c-d</td>
</tr>
<tr>
<td>TKGMN</td>
<td>h^{1}-i^{1}</td>
</tr>
<tr>
<td>XDPO</td>
<td>h</td>
</tr>
</tbody>
</table>

\[ b \quad = \text{Channel identifier [D (default), B1, or B2]. If the default or the D-channel is specified, the entire DSL will be identified. If a channel other than the D-channel is specified, only that channel will be identified. Used only for digital subscriber lines (DSLs), data links, and OSPSPORTs.} \]

\[ c \quad = \text{Data link (group) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.} \]

\[ d \quad = \text{Relative link (member) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.} \]

\[ e \quad = \text{EIS identifier (ID) on which the CPDL terminates. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.} \]

\[ f \quad = \text{External data link (member) number relative to the EIS. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.} \]

\[ g \quad = \text{Telephone number.} \]

\[ h \quad = \text{Operator service center number. Refer to the APP:RANGES appendix in the Appendixes section for full expansion.} \]
of the Input Messages manual.

i = Relative position number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

j = Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

k = Digital line and trunk unit (DLTU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

l = Digital facility interface (DFI) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

m = Channel number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual. If this is a DFI-2, channels 1-24 are associated with facility T1 A and channels 25-48 are associated with facility T1 B. Otherwise there is only one T1 facility.

n = Member number of the multi-line hunt group (MLHG) or line time slot bridging (LTSB) line. For MLHG the DN specified must be the main DN for the group and the member number specifies which member of the group will be accessed. For LTSB a member number of 1 will give the status of the lead line and a member number of 2 will give the status of the associate line. If no member number is specified, for 1-DN LTSB, the status of both lines will be given. If no member number is specified, for 2-DN LTSB, the status of the line associated with the DN entered will be given.

o = Line unit. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

p = Line group. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

q = Line card. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

r = Grid number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

s = Switch board number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

t = Switch. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

u = Level. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

x = Multi-line hunt group. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

y = Hunt group member number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

z = Force management center number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

al = Digital carrier line unit. Refer to the APP:RANGES appendix in the Appendixes section of the
Input Messages manual.

b\textsuperscript{1} = Remote terminal (RT). Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

c\textsuperscript{1} = RT line number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

d\textsuperscript{1} = Trunk unit. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

e\textsuperscript{1} = Service group. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

f\textsuperscript{1} = Channel board. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

g\textsuperscript{1} = Circuit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

h\textsuperscript{1} = Trunk group. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

i\textsuperscript{1} = Trunk member. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

j\textsuperscript{1} = Primary rate interface group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

l\textsuperscript{1} = IDCU number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

m\textsuperscript{1} = Remote terminal (RT) number or IDCU digital signal level 1 (DS1) serving PUB43801 number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

n\textsuperscript{1} = RT line number or PUB43801 channel. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

o\textsuperscript{1} = Digital networking unit - synchronous optical network (SONET) (DNU-S) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

p\textsuperscript{1} = Data group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

q\textsuperscript{1} = Synchronous transport signal (STS) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

r\textsuperscript{1} = Virtual tributary group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

s\textsuperscript{1} = Digital signal level 0 (DS0). Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

t\textsuperscript{1} = Line board number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
u1 = Line circuit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

v1 = PSU unit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

w1 = PSU shelf number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

x1 = PSU channel group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

y1 = PSU channel group member number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

z1 = Line group controller number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

a2 = Integrated services line unit (ISLU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

b2 = Integrated services line unit model 2 (ISLU2) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

c2 = Access interface unit (AIU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

d2 = AIU pack number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

e2 = AIU circuit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

f2 = SONET termination equipment (STE) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

g2 = Virtual tributary member number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

PF = Printout follows. The request has been accepted and is followed by the OP:ST-PORT output message.

RL = Retry later. The request has been denied, probably due to system load.

5. REFERENCES

Input Message(s):

OP:LIST
RMV:DATALINK
RMV:LINE
RMV:OSPSPORT
RMV:TRK
RST:DATALINK
RST:LINE
RST:OSPSPORT
RST:TRK

Output Message(s):

OP:ST-PORT

Input Appendix(es):

APP:RANGES
1. PURPOSE

Requests the output of the current status history for a specified trunk, line, data link, or operator services position system port (OSPSPORT). Output will include trunk, line, data link, or OSPSPORT identification (logical and terminal names), primary status, the time the primary status went into effect, and any pending status(es) associated with the trunk, line, data link, or OSPSPORT.

2. FORMAT

\texttt{OP:STATUS,a[,CH=b];}

3. EXPLANATION OF MESSAGE

Note: Refer to the Acronym section of the Input Messages manual for the full expansion of acronyms shown in the format.

- \texttt{a} = Equipment number or identifier. Valid value(s):

<table>
<thead>
<tr>
<th>Equipment Identifier</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>AIUEN=j-c^2-d^2-e^2</td>
<td>HOBIS=c-d</td>
</tr>
<tr>
<td>AP=c-d</td>
<td>ILEN=j-1^1-m^1-n^1</td>
</tr>
<tr>
<td>AQ=c-d</td>
<td>INEN=j-0^1-m^1-n^1</td>
</tr>
<tr>
<td>AQEST=g</td>
<td>LCEN=j-a^2-z^1-q</td>
</tr>
<tr>
<td>AOM=c-d</td>
<td>LCKEN=j-b^2-p-t^1-u^1</td>
</tr>
<tr>
<td>BST=h-i</td>
<td>LEN=j-o-r-s-t-u</td>
</tr>
<tr>
<td>DASC=c-d</td>
<td>MISLINK=c-d</td>
</tr>
<tr>
<td>DEN=j-k-l-m</td>
<td>MLHG=x-y</td>
</tr>
<tr>
<td>DN=g[-n]</td>
<td>NEN=j-o^1-p^1-f^2-q^1-r^1-g^2-s^1</td>
</tr>
<tr>
<td>EIS=e-f</td>
<td>OAPF=z</td>
</tr>
<tr>
<td>HOBIICR=c-d</td>
<td>OAPO=h</td>
</tr>
<tr>
<td>HOBIICV=c-d</td>
<td>OIUEX=j-1^2-n^2-o^2-p^2-q^2-k^2</td>
</tr>
<tr>
<td></td>
<td>OPT=h-i</td>
</tr>
<tr>
<td></td>
<td>PKTIN=g</td>
</tr>
<tr>
<td></td>
<td>PLTEN=j-h^2-i^2-j^2-k^2</td>
</tr>
<tr>
<td></td>
<td>RIGRP=j^1</td>
</tr>
<tr>
<td></td>
<td>PSUEN=j-v^1-w^1-x^1-y^1</td>
</tr>
<tr>
<td></td>
<td>RAS=c-d</td>
</tr>
<tr>
<td></td>
<td>RTR5=c-d</td>
</tr>
<tr>
<td></td>
<td>SLEN=j-a^1-b^1-c^1</td>
</tr>
<tr>
<td></td>
<td>TEN=j-d^1-e^1-f^1-g^1</td>
</tr>
<tr>
<td></td>
<td>TKGNN=h^1-i^1</td>
</tr>
<tr>
<td></td>
<td>XDB=c-d</td>
</tr>
<tr>
<td></td>
<td>XDPF=z</td>
</tr>
<tr>
<td></td>
<td>XDPO=h</td>
</tr>
</tbody>
</table>
= Telephone number.

h = Operator service center number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

i = Relative position number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

j = Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

k = Digital line and trunk unit (DLTU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

l = Digital facility interface (DFI) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

m = Channel number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual. If this is a DFI-2, channels 1-24 are associated with facility T1 A and channels 25-48 are associated with facility T1 B. Otherwise there is only one T1 facility.

n = Member number of the multi-line hunt group (MLHG) or line time slot bridging (LTSB) line. For MLHG the DN specified must be the main DN for the group and the member number specifies which member of the group will be accessed. For LTSB a member number of 1 will give the status of the lead line and a member number of 2 will give the status of the associate line. If no member number is specified, for 1-DN LTSB, the status of both lines will be given. If no member number is specified, for 2-DN LTSB, the status of the line associated with the DN entered will be given.

o = Line unit. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

p = Line group. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

q = Line card. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

r = Grid number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

s = Switch board number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

t = Switch. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

u = Level. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

x = Multi-line hunt group. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

y = Hunt group member number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
z = Force management center number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

a1 = Digital carrier line unit. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

b1 = Remote terminal (RT). Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

c1 = RT line number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

d1 = Trunk unit. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

e1 = Service group. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

f1 = Channel board. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

g1 = Circuit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

h1 = Trunk group or Bearer Independent Call Control (BICC) group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

i1 = Trunk member or normalized Call Instance Code (CIC). Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

j1 = Primary rate interface group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

l1 = IDCU number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

m1 = Remote terminal (RT) number or IDCU digital signal level 1 (DS1) serving PUB43801 number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

n1 = RT line number or PUB43801 channel. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

o1 = Digital networking unit - synchronous optical network (SONET) (DNU-S) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

p1 = Data group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

q1 = Synchronous transport signal (STS) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

r1 = Virtual tributary group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

s1 = Digital signal level 0 (DS0). Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
t¹ = Line board number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

u¹ = Line circuit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

v¹ = PSU unit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

w¹ = PSU shelf number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

x¹ = PSU channel group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

y¹ = PSU channel group member number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

z¹ = Line group controller number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

a² = Integrated services line unit (ISLU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

b² = Integrated services line unit model 2 (ISLU2) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

c² = Access interface unit (AIU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

d² = AIU pack number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

e² = AIU circuit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

f² = SONET termination equipment (STE) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

g² = Virtual tributary member number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

h² = Peripheral control and timing line and trunk unit (PLTU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

i² = PCT facility interface (PCTFI) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

j² = Tributary number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

k² = Channel number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

l² = Optical interface unit (OIU) number. Refer to the APP:RANGES appendix in the Appendixes
section of the Input Messages manual.

\( m^2 \) = Protection group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

\( n^2 \) = STM-1 number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

\( o^2 \) = High order virtual container number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

\( p^2 \) = Low order virtual container group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

\( q^2 \) = Low order virtual container member number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

PF  = Printout follows. The request has been accepted and is followed by the OP:ST-PORT output message.

RL  = Retry later. The request has been denied, probably due to system load.

5. REFERENCES

Input Message(s):

OP:LIST
RMV:DATALINK
RMV:LINE
RMV:OSPSPORT
RMV:TRK
RST:DATALINK
RST:LINE
RST:OSPSPORT
RST:TRK

Output Message(s):

OP:ST-PORT

Input Appendix(es):

APP:RANGES
OP:STATUS-C

Software Release: 5E16(1) and later
Command Group: TRKLN
Application: 5
Type: Input

1. PURPOSE

Requests the output of the current status history for a specified trunk, line, data link, or operator services position system port (OSPSPORT). Output will include trunk, line, data link, or OSPSPORT identification (logical and terminal names), primary status, the time the primary status went into effect, and any pending status(es) associated with the trunk, line, data link, or OSPSPORT.

2. FORMAT

OP:STATUS,a[,CH=b];

3. EXPLANATION OF MESSAGE

Refer to the Acronym section of the Input Messages manual for the full expansion of acronyms shown in the format.

\( a \)

= Equipment number or identifier. Valid value(s):

- AIUEN=j-c^2-d^2-e^2
- AP=c-d
- AQ=c-d
- AQEST=g
- AQM=c-d
- ATMPP=j-v^1-v^2-w^2
- BST=h-i
- DASC=c-d
- DEN=j-k-l-m
- DN=g[-n]
- EIS=e-f
- HOBICR=c-d
- HOBICV=c-d
- HOBIS=c-d
- ILEN=j-l^1-m^1-n^1
- INEN=j-o^1-m^1-n^1
- LCEN=j-a^2-z^1-q
- LCKEN=j-b^2-p-t^1-u^1
- LEN=j-o-r-s-t-u
- MSLNK=c-d
- MLHG=x-y
- NEN=j-o^1-p^1-f^2-q^1-r^1-g^2-s^1
- OAPF=z
- OAPO=h
- OIUEN=j-l^2-m^2-n^2-o^2-r^1-g^2-k^2
- OPT=h-i
- PTKDN=g
- PLTEN=j-h^2-i^2-j^2-k^2
- PRIGRP=j^1
- PSUEN=j-v^1-w^1-x^1-y^1
- RAS=c-d
b = Channel identifier [D (default), B1, or B2]. If the default or the D-channel is specified, the entire DSL will be identified. If a channel other than the D-channel is specified, only that channel will be identified. Used only for digital subscriber lines (DSLs), data links, and OSPSPORTs.

c = Data link (group) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

d = Relative link (member) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

e = EIS identifier (ID) on which the CPDL terminates. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

f = External data link (member) number relative to the EIS. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

g = Telephone number.

h = Operator service center number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

i = Relative position number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

j = Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

k = Digital line and trunk unit (DLTU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

l = Digital facility interface (DFI) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

m = Channel number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual. If this is a DFI-2, channels 1-24 are associated with facility T1 A and channels 25-48 are associated with facility T1 B. Otherwise there is only one T1 facility.

n = Member number of the multi-line hunt group (MLHG) or line time slot bridging (LTSB) line. For MLHG the DN specified must be the main DN for the group and the member number specifies which member of the group will be accessed. For LTSB a member number of 1 will give the status of the lead line and a member number of 2 will give the status of the associate line. If no member number is specified, for 1-DN LTSB, the status of both lines will be given. If no member number is specified, for 2-DN LTSB, the status of the line associated with the DN entered will be given.
= Line unit. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

p = Line group. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

q = Line card. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

r = Grid number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

s = Switch board number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

t = Switch. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

u = Level. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

x = Multi-line hunt group. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

y = Hunt group member number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

z = Force management center number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

a¹ = Digital carrier line unit. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

b¹ = Remote terminal (RT). Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

c¹ = RT line number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

d¹ = Trunk unit. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

e¹ = Service group. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

f¹ = Channel board. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

g¹ = Circuit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

h¹ = Trunk group or bearer independent call control (BICC) group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

i¹ = Trunk member or normalized call instance code (CIC). Refer to the APP:RANGES appendix in
the Appendixes section of the Input Messages manual.

j

= Primary rate interface group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

l

= IDCU number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

m

= Remote terminal (RT) number or IDCU digital signal level 1 (DS1) serving PUB43801 number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

n

= RT line number or PUB43801 channel. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

o

= Digital networking unit - synchronous optical network (SONET) (DNU-S) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

p

= Data group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

q

= Synchronous transport signal (STS) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

r

= Virtual tributary group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

s

= Digital signal level 0 (DS0). Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

t

= Line board number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

u

= Line circuit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

v

= PSU unit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

w

= PSU shelf number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

x

= PSU channel group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

y

= PSU channel group member number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

z

= Line group controller number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

a

= Integrated services line unit (ISLU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

b

= Integrated services line unit model 2 (ISLU2) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
c\textsuperscript{2} = Access interface unit (AIU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

d\textsuperscript{2} = AIU pack number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

e\textsuperscript{2} = AIU circuit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

f\textsuperscript{2} = SONET termination equipment (STE) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

g\textsuperscript{2} = Virtual tributary member number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

h\textsuperscript{2} = Peripheral control and timing line and trunk unit (PLTU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

i\textsuperscript{2} = PCT facility interface (PCTFI) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

j\textsuperscript{2} = Tributary number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

k\textsuperscript{2} = Channel number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

l\textsuperscript{2} = Optical interface unit (OIU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

m\textsuperscript{2} = Protection group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

n\textsuperscript{2} = OC-3 STE number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

o\textsuperscript{2} = STS level 1 (STS-1) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

r\textsuperscript{2} = Virtual analog line number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

s\textsuperscript{2} = Virtual BRI line number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

t\textsuperscript{2} = Virtual trunk facility number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

u\textsuperscript{2} = Virtual trunk channel number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

v\textsuperscript{2} = Link number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

w\textsuperscript{2} = Virtual connection identifier (VCID) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
4. SYSTEM RESPONSE

PF = Printout follows. The request has been accepted. Followed by the OP:ST-PORT output message.

RL = Retry later. The request has been denied, probably due to system load.

5. REFERENCES

Input Message(s):

OP:LIST
RMV:DATALINK
RMV:LINE
RMV:OSPSPORT
RMV:TRK
RST:DATALINK
RST:LINE
RST:OSPSPORT
RST:TRK

Output Message(s):

OP:ST-PORT

Input Appendix(es):

APP:RANGES
OP:STATUS-PS

Software Release: 5E14 and later
Command Group: TRKLN
Application: 5
Type: Input

1. PURPOSE

Requests output of the switching module (SM) packet switch unit (PSU) timeslot usage (PSUTSCOUNT) for nailups. The types of nailups used for packet transport are inter-SM (ISMNAIL), internal protocol (IP) trunk, extended digital subscriber line (EDSL), X.25 access on T1 (XAT) trunk, X.75 trunk, X.75' trunk, remote integrated services line unit (RISLU), and common channel signaling (CCS). In addition to these nailups, the PSU peripheral interface data bus (PIDB) time-slots reserved for the remote digital test access (RDTA) feature are included in the output.

The network side TSIU timeslots and PIDB timeslots used per PSU shelf are included for packet pipes (PKTPIPE) and the PIDB timeslots used per PSU shelf are included for speech handler channel groups (SHCG). Since a packet pipe (which is composed of packet pipe members on a DFI connected to a packet pipe port on a PSU) can be inter-SM, the network side TSIU timeslots for the packet pipe members are included in the PKTPIPE count for the SM that contains the packet pipe member. This SM may or may not have a PSU but the packet pipe members were included as they are connected to a PSU which resides in another SM. The output provides network side timeslot interchange unit (TSIU) timeslot usage. This corresponds to time multiplexed switch (TMS) timeslot usage in a local switching module (LSM), host switching module (HSM), optically remoted module (ORM), and/or two mile remoted module (TRM), noting the HSM count will include usage due to ISM nailups terminating on child remote switching modules (RSMs). The output also provides peripheral interface data bus (PIDB) timeslot usage for each packet switch unit (PSU) shelf. The intra-cluster link (ICL) timeslot usage by ISM nailups for RSMs within the same cluster is also provided.

2. FORMAT

OP:STATUS,PSUTSCOUNT,SM=a[&&b];

3. EXPLANATION OF MESSAGE

a = SM number or the lower limit of a range of SM numbers for which timeslot usage is desired.
b = Upper limit of a range of SM numbers.

4. SYSTEM RESPONSE

NG = No good. The request has been denied. The SM has no integrated services digital network (ISDN) nailups associated with it.
PF = Printout follows. The request has been accepted. Followed by the OP:STATUS-PS output message.

5. REFERENCES

Output Message(s):

OP:STATUS-PS
Other Manual(s):

Where 'x' is the release-specific version of the document.

235-600-30x  Asserts
OP:STBY

Software Release: 5E14 and later
Command Group: AM
Application: 5,3B
Type: Input

1. PURPOSE

Requests a list of all standby administrative module (AM) hardware units. This format provides a list of all standby units of a particular type.

2. FORMAT

OP:STBY[,{a=b[,c=d]}];

3. EXPLANATION OF MESSAGE

a = Unit name. AM unit names are listed in the APP:MEM-NUM-UNIT appendix in the Appendixes section of the Input Messages manual.

b = Unit number. Refer to the APP:MEM-NUM-UNIT appendix in the Appendixes section of the Input Messages manual.

c = Subunit name, if a=CU. AM control unit (CU) subunit names are listed in the APP:MEM-NUM-CU appendix in the Appendixes section of the Input Messages manual.

d = Subunit number. Refer to the APP:MEM-NUM-CU appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

PF = Printout follows. Followed by the OP:STBY output message.

RL = Retry later.

?D = Data field error.

5. REFERENCES

Input Message(s):

OP:CFGSTAT

Output Message(s):

OP:CFGSTAT
OP:STBY

Input Appendix(es):
57. OP:T
OP:TAG

Software Release: 5E14 and later
Command Group: MAINT
Application: 5
Type: Input

1. PURPOSE

Requests that a circuit pack return tag is to be printed based on the information taken from the failing diagnostics on the switch. If arguments are specified, then a tag will be printed using information from the last failing diagnostic that matches the specified arguments.

2. FORMAT

[1] OP:TAG[,a]
[2] OP:TAG[,ARG1=b[,ARG2=b[,ARG3=b[,ARG4=b]]]]

3. EXPLANATION OF MESSAGE

a = ALL or BLANK; choose one or omit. "ALL" will dump a list of all failing diagnostics that are available for formatting. "BLANK" will format and print a blank circuit pack return tag. If no arguments are specified, the last failing diagnostics will be formatted and the information printed as a circuit pack return tag.

b = Arguments that describe which failing diagnostic is to be used to format the tag. A maximum of four arguments may be used for tag selection. If the arguments specified do not match any of the failing diagnostics stored in the TAGLOG, a list of failing diagnostics that are available for tag selection will be dumped.

4. SYSTEM RESPONSE

NG = No good. The request is denied.
PF = Printout follows. Output message will follow with completion status.

5. REFERENCES

Output Message(s):

OP:TAG
OP:TCPIP-RTDMP

Software Release: 5E14 and later

Command Group: TRKLN

Application: 5

Type: Input

1. PURPOSE

The TCP/IP Route dump input message is used to verify TCP/IP routing tables in an SM or PH.

2. FORMAT

[1] OP:TCPIP:RTDMP,SM=a


3. EXPLANATION OF MESSAGE

Note: Refer to the Acronym section of the Input Messages manual for the full expansion of acronyms shown in the format.

a = SM number.

b = PSU unit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

c = PSU shelf number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

d = Channel group (CHNG) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

NG = No good. The message was not accepted because the SM is isolated or the equipment does not exist. May also include:

- NO ROUTE TABLES ENTRIES FOUND = No entries were found in the ROUTE TABLE on the SM or PH requested.

PF = Printout follows. The message was accepted and a printout will follow.

5. REFERENCES

Output Message(s):

OP:TCPIP-RRTD

Input Appendix(es):

APP:RANGES
Other Manual(s):

System Maintenance Requirements and Tools
OP:TERACNTS-A

Software Release: 5E14 - 5E15
Command Group: TRKLN
Application: 5
Type: Input

1. PURPOSE

Requests print-out of the threshold counts, operational all tests passed count, and purge count of a trunk circuit, universal tone decoder (UTD), universal tone generator (UTG), or revertive pulsing trunk on he trunk error analysis lists. If a specific machine detected interoffice irregularity (MDII) is specified, only entries related to that MDII are printed.

2. FORMAT

OP:TERACNTS,a[,MDII=d];

3. EXPLANATION OF MESSAGE

Refer to the Acronym section of the Input Messages manual for the full expansion of acronyms shown in the format.

a = Unit. Valid value(s):
DEN=e-j-k-l
ILEN=e-r-n-o
INEN=e-s-n-o
NEN=e-s-t-x-u-v-y-w
PLTEN=e-z-a1-b1-c1
RVPT=e-p-g-q;
SLEN=e-m-n-o
TEN=e-f-g-h-i
TKGMN=b-c
UTD=e-p-g-q;
UTG=e-p-g-q;
VTRK=e-d1-e1

b = Trunk group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

c = Member number in trunk group. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

d = MDII type (refer to the REPT:MDII output message for complete enumeration).

e = Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

f = Unit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

g = Service group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

h = Channel board number. Refer to the APP:RANGES appendix in the Appendixes section of the
Input Messages manual.

- **i**: Channel circuit. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

- **j**: Digital line and trunk unit (DLTU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

- **k**: Digital facility interface (DFI) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

- **l**: DFI channel number. A DFI-2 has 48 channels. Channel ranges are:
  - 1-24 = Channels 1-24 of facility T1A.
  - 25-48 = Channels 1-24 of facility T1B.

  Otherwise, only a range of 1-24 is allowed. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

- **m**: Digital carrier line unit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

- **n**: Remote terminal number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

- **o**: Remote terminal line number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

- **p**: Local digital service unit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

- **q**: Digital service unit board number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

- **r**: IDCU number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

- **s**: Digital networking unit - synchronous optical network (SONET) (DNU-S) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

- **t**: Data group (DG). Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

- **u**: Synchronous transport signal (STS) facility number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

- **v**: Virtual tributary group (VTG) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

- **w**: Digital signal level 0 (DS0) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

- **x**: SONET termination equipment (STE) facility number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

- **y**: Virtual tributary member (VTM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
= Peripheral control and timing (PCT) line and trunk unit (PLTU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

\(a^1\) = PCT facility interface (PCTFI) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

\(b^1\) = Tributary (T1FAC) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

\(c^1\) = Channel (CHAN) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

\(d^1\) = Virtual Trunk Facility (FAC). Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

\(e^1\) = Virtual Trunk Channel (CHAN). Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

\(PF\) = Printout follows. Followed by the OP:TERACNTS output message.

5. REFERENCES

Output Message(s):

OP:TERACNTS
REPT:MDII

Input Appendix(es):

APP:RANGES
1. PURPOSE

Requests print-out of the threshold counts, operational all tests passed count, and purge count of a trunk circuit, universal tone decoder (UTD), universal tone generator (UTG), or revertive pulsing trunk on he trunk error analysis lists. If a specific machine detected interoffice irregularity (MDII) is specified, only entries related to that MDII are printed.

2. FORMAT

OP:TERACNTS,a[,MDII=d];

3. EXPLANATION OF MESSAGE

Refer to the Acronym section of the Input Messages manual for the full expansion of acronyms shown in the format.

\( a \) = Unit. Valid value(s):

- DEN=e-j-k-l
- ILEN=e-r-n-o
- INEN=e-s-n-o
- NEN=e-s-t-x-u-v-y-w
- OIUE=e-f-g-h-i-l-v-y-w
- PLTEN=e-z-a-b-c
- RVPT=e-p-g-q;
- SLEN=e-m-n-o
- TEN=e-f-g-h-i
- TKGMN=b-c
- UTD=e-p-g-q;
- UTG=e-p-g-q;
- VTRK=e-d-e

\( b \) = Trunk group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

\( c \) = Member number in trunk group. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

\( d \) = MDII type (refer to the REPT:MDII output message for complete enumeration).

\( e \) = Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

\( f \) = Unit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

\( g \) = Service group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
h = Channel board number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

i = Channel circuit. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

j = Digital line and trunk unit (DLTU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

k = Digital facility interface (DFI) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

l = DFI channel number. A DFI-2 has 48 channels. Channel ranges are:
   1-24 = Channels 1-24 of facility T1A.
   25-48 = Channels 1-24 of facility T1B.

Otherwise, only a range of 1-24 is allowed. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

m = Digital carrier line unit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

n = Remote terminal number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

o = Remote terminal line number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

p = Local digital service unit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

q = Digital service unit board number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

r = IDCU number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

s = Digital networking unit - synchronous optical network (SONET) (DNU-S) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

t = Data group (DG). Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

u = Synchronous transport signal (STS) facility number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

v = Virtual tributary group (VTG) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

w = Digital signal level 0 (DS0) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

x = SONET termination equipment (STE) facility number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
y = Virtual tributary member (VTM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

z = Peripheral control and timing (PCT) line and trunk unit (PLTU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

a¹ = PCT facility interface (PCTFI) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

b¹ = Tributary (T1FAC) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

c¹ = Channel (CHAN) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

d¹ = Virtual Trunk Facility (FAC). Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

e¹ = Virtual Trunk Channel (CHAN). Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

f¹ = Optical interface unit (OIU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

g¹ = Protection Group (PG) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

h¹ = Optical carrier level 3 (OC3) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

i¹ = Synchronous transport signal level 1 (STS1) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

PF = Printout follows. The request has been accepted. Followed by the OP:TERACNTS output message.

5. REFERENCES

Output Message(s):

OP:TERACNTS
REPT:MDII

Input Appendix(es):

APP:RANGES
OP:TESTSET

Software Release: 5E14 and later
Command Group: TRKLN
Application: AEWNC
Type: Input

1. PURPOSE

Requests that the set of test sets defined in the WNC and their current state be listed out.

2. FORMAT

OP:TESTSET

3. EXPLANATION OF MESSAGE

Note: There is no input parameters for the input message.

4. SYSTEM RESPONSE

RL = Retry Later. The request has been denied, probably due to system load.

PF = Printout follows. The request has been accepted and is followed by an ASGN:TESTSET output message.

5. REFERENCES

Other Manual(s):
230-701-100 Air ExtensionSM Reference Guide
235-701-120 Air ExtensionSM User Guide
OP:TGC

Software Release: 5E14 and later
Command Group: NMOC
Application: 5
Type: Input

1. PURPOSE

Requests a list of all trunk group controls (TGCs) applied to a particular trunk group, all TGCs of a particular type, or all TGCs in the office.

2. FORMAT

OP:TGC[,TG=a|,CNTL=b];

3. EXPLANATION OF MESSAGE

a = Trunk group identifier. The default is the total office.

b = Control type. Valid value(s):
   CANT = Manual cancel-to control.
   SKIP = Manual skip control.
   CRO = Manual cancel rerouted overflow control.
   RR = Manual reroute control.
   CANF = Manual cancel-from control.

4. SYSTEM RESPONSE

NG = No good. May also include:
   - INVALID REQUEST = The request has been denied. This office is not equipped to process the request entered.

PF = Printout follows. Followed by the OP:TGC output message.

RL = Retry later. May also include:
   - CONFLICTING REQUEST = A similar request is being processed utilizing necessary resources.
   - RESOURCE SHORTAGE = The necessary resources are not available.

5. REFERENCES

Input Message(s):
   CLR:TGC
   SET:RR
   SET:TGC

Output Message(s):
OP: TGC

Other Manual(s):
235-190-115  *Local and Toll System Features*

MCC Display Page(s):

130 (NM EXCEPTION)
OP:TGCNT

Software Release: 5E14 and later
Command Group: TRKLN
Application: 5
Type: Input

1. PURPOSE

Reports (outputs) the total number of trunks in a trunk group, the number of in-service trunks, the number of out-of-service (OOS) trunks, and an indicator if the counts may be invalid. This message may be used to display the above information for a single specified trunk group, a range of trunk groups, or all trunk groups. In the case of a range or all trunk groups, the above information will be for trunk groups that have OOS trunks. OOS CADN is not counted towards this OOS count.

2. FORMAT

OP:TGCNT[,TG=a[&b]][,PRINT];

3. EXPLANATION OF MESSAGE

PRINT = Print the output from this input message at the ROP in addition to its normal destinations(s). When PRINT is not specified (the default), the output is not printed on the ROP, unless the request comes from Master Control Center (MCC).

a = Trunk group (TG) number or lower limit of a range of TG whose count is desired. Default prints all TGs with an OOS count.

b = Upper limit of a range of TG.

4. SYSTEM RESPONSE

PF = Printout follows. Followed by the OP:TGCNT output message.

RL = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

Input Message(s):

OP:AML

Output Message(s):

OP:TGCNT
OP:TLPNOTE
Software Release: 5E14 and later
Command Group: MAINT
Application: 5
Type: Input

1. PURPOSE
Requests that the specified communication module (CM) or switching module (SM) trouble locating procedure (TLP) note be printed. This message includes all equipment types except those listed in the output message appendix APP:TLPNOTE under section AM TLP NOTES.

2. FORMAT
OP:TLPNOTE=a;

3. EXPLANATION OF MESSAGE

a = TLP note number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

NG = No good. Identifier does not correspond to a currently defined note number.
PF = Printout follows. Followed by the OP:TLP-NOTE output message.

5. REFERENCES

Output Message(s):
OP:TLPNOTE

Input Appendix(es):
APP:RANGES

Other Manual(s):
235-105-110  System Maintenance Requirements and Tools
OP:TPC

Software Release: 5E14 and later
Command Group: CCS
Application: 5,CNI
Type: Input

1. PURPOSE

Requests translation point codes (TPCs) for the specified translation type (TT) be displayed.

2. FORMAT

OP:TPC:TYPE=a;

3. EXPLANATION OF MESSAGE

a = A specific translation type or "ALL". Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual. ALL means that TPCs are listed for all equipped translation types.

4. SYSTEM RESPONSE

PF = Printout follows. Followed by the OP:TPC output message.

5. REFERENCES

Input Message(s):

CHG:SRVT
EXC:SRVT

Output Message(s):

CHG:SRVT
EXC:SRVT
OP:TPC

Input Appendix(es):

APP:RANGES

Other Manual(s):
235-190-120 Common Channel Signaling Service Features
OP:TR

Software Release: 5E14 and later
Command Group: NMOC
Application: 5
Type: Input

1. PURPOSE

Requests a list of all trunk reservation (TR) controls that are currently assigned, or lists the TR control for a single trunk group.

2. FORMAT

OP:TR[, TG=a];

3. EXPLANATION OF MESSAGE

a = Trunk group (TG) number, the default is to list all trunk groups that have a TR control assigned.

4. SYSTEM RESPONSE

PF = Printout follows. Followed by the OP:TR output message.
RL = Retry later. May also include:
   - CONFLICTING REQUEST = A similar request is being processed utilizing necessary resources.
   - RESOURCE SHORTAGE = The necessary resources are not available.

5. REFERENCES

Input Message(s):

ALW:TR
ASGN:TR
CLR:TR
INH:TR
SET:TROVRD
CLR:TROVRD

Output Message(s):

ALW:TR
ASGN:TR
CLR:TR
INH:TR
OP:TR
SET:TROVRD
CLR:TROVRD

Other Manual(s):
MCC Display Page(s):

130 (NM EXCEPTION)
OP:TRACE

Software Release: 5E14 and later
Command Group: CCS
Application: 5
Type: Input

1. PURPOSE

Requests a listing of the status of tracing and the settings of the trace detail flags for the various subsystems.

2. FORMAT

OP:TRACE [:DETD];

3. EXPLANATION OF MESSAGE

The DETD keyword requests that all the subsystems and detail flags be printed. If the DETD keyword is absent, only the subsystems with non-zero flags will be printed.

4. SYSTEM RESPONSE

PF = Printout follows. Followed by the OP:TRACE output message.

RL = Retry Later. The OP:TRACE input message cannot execute at this time. The trace process traffic diversion terminal process (TDTP) is not active.

5. REFERENCES

Input Message(s):

ALW:TRACE
INH:TRACE
SET:TRACE

Output Message(s):

ALW:TRACE
INH:TRACE
OP:TRACE
REPT:TRACE
SET:TRACE
OP:TRAP

Software Release: 5E14 and later
Command Group: CCS
Application: 5
Type: Input

1. PURPOSE

Requests that status information be obtained regarding active, pending, terminated, aborted, inhibited or completed traps.

2. FORMAT

[1] OP:TRAP:ID=a[,RTDSP={Y|N}],LFORM={Y|N}[,DEST=c];
[2] OP:TRAP[,LFORM={Y|N}][,DEST=c];

3. EXPLANATION OF MESSAGE

Note: Refer to the Acronym section of the Input Messages manual for the full expansion of acronyms shown in the format.

LFORM = Long form. Print detailed status information for the trapped messages. Information will be given regarding the trap parameters and associated values that were given in the SET:TRAP input message.

N = No, turn off the option.

RTDSP = Real-time display. Print trapped messages in real-time to the specified output class. The default value is what was specified in the SET:TRAP input message for this field.

Y = Yes, turn on the option.

a = Trap identification number.

c = Destination output class (1-255). The default output class is the class specified in the SET:TRAP input message for this trap ID. Refer to the APP:MSGCLS appendix in the Appendixes section of the Output Messages manual for a cross reference between numeric value (destination class) and ECD destinations.

4. SYSTEM RESPONSE

PF = Printout follows. Followed by the OP:TRAP output message.

5. REFERENCES

Input Message(s):

ALW:TRAP
INH:TRAP
SET:TRAP
STOP:TRAP
Output Message(s):

OP : TRAP

Other Manual(s):
235-190-120 Common Channel Signaling Service Features

MCC Display Page(s):

118 (CNI FRAME AND CCS LINK STATUS)
OP:TRC

Software Release: 5E14 and later
Command Group: TRACE
Application: 5
Type: Input

1. PURPOSE

Requests the printing of all data collected for a traced call. It results in a series of OP:TRC output messages containing hexadecimal dumps of the collected data.

2. FORMAT

OP:TRC:[PID=a-b-c][,STRUCTS=d][,DN=e];

3. EXPLANATION OF MESSAGE

| PID | = Process ID (PID) of the process controlling a traced connection. All messages describing one connection of a call will have the same PID. If no PID is specified, the trace data for all connections related to this call will be printed. The PID can be obtained from a TRC:UTIL output message. |
| a   | = Process number of the PID. |
| b   | = Switching module (SM) number of the PID. |
| c   | = Uniqueness number of the PID. |
| d   | = The data structures to be printed. Valid value(s): |
| ACCS | = Print the data blocks associated with an Operator Services Position System (OSPS) automated calling card service (ACCS) call. These data blocks include the ACCS data block (ACCSDB) and the ACCS query data block (QRYDB). |
| ALCB | = Print the access link control block (ALCB) associated with the packet utility call trace. |
| ALL | = Print all of the trace data for a connection of the call, which includes all of the data structures. This is the default. |
| APB | = Print the associated process blocks (APB). |
| BST | = Print the data blocks associated with an OSPS directory assistance (DA) operator position basic services terminal (BST). The blocks dumped are the call loop data block (LOOPDB), which contains information concerning a DA call at the operator position. The operator position data block (POSDB), which contains the operator status and the supplementary protocol data block (SPB), contains data communications information concerning the integrated services digital network (ISDN) digital subscriber line (DSL) connected to the BST. |
| CHAN | = Print the channel control block (CCB) contents, and its related source channel data block (CHDB), circuit queuing block (CQB), DS0 data block (DS0B), and PIDB time slot block (PTSB) in an OP:TRC-CHAN output message. |
| CKT | = Print circuits used by the traced call. They are represented by a circuit data block common (CDBCOM) and its associated channel circuit data block (RLCHAN) relations. The result is an OP:TRC-CKT output message for each CDBCOM. |
| CLDB | = Print the call leg data blocks (CLDB). |
| COIN | = Print the data block associated with the automated coin service terminal process (COINOT) for an OSPS call. |
| CONFCKT | = Print the data blocks associated with a conference circuit connection. The data |
blocks dumped are the CCBs, the channel data blocks (CHDBs), the CDBCOMs,
the path data blocks (PHDBs), the sink and source time slot data blocks (TSDBs),
and the process control block linkage area (PCBLA) of the conference circuit.

CR
= Print the call record (CR) associated with the originator in an OP:TRC-CR output
message.

CV
= Print the data block associated with a vectored call. This data block contains
information gathered from the call vectoring state (CV_STATE) relation tuple
associated with the vectored call.

DISP
= Print the display data block (DISPDB).

EIS
= Print the external information system (EIS) data blocks when the call at the
position is associated with an EIS. These include: EISCALL, EIS_LNK and
EISLKSEL.

HLSC
= Print the list of high level service circuits for ringing and the per call test, and the
peripheral control (PC) foreground data area PCCCBFG. These will be in an
OP:TRC-HLSC output message.

ISDN
= Print the list of feature data blocks associated with an integrated services digital
network call.

The following data blocks are printed in the OP:TRC-ISDN output message:
D-channel application linkage block (DALB), and the PRI group status data block
(PRISTAT).

The following data blocks are printed in the OP:TRC-ISDN2 output message:
terminal equipment data block (TEDB), terminal endpoint identifier linkage area
(TEILA), business and residential custom services data block (BRCSDB), and
automatic call distribution position data block (ACDPOSDB).

LCNx
= Print the logical channel control block (LCCB) associated with a specific active
logical channel number (LCN) for packet utility call trace. Up to 127 active logical
channel numbers may exist for a packet utility trace. The exact LCN must be
specified. Where ‘x’ is 1 through 127. (LCN0, LCN1, LCN2...LCN127).

MDB
= Print the model data blocks.

NTWK
= Print the network path descriptors, the path data blocks (PHDBs), and the sink
and source time slot data blocks (TSDBs) in an OP:TRC-NTWK output message.

OPT
= Print the data blocks associated with an OSPS toll and assistance (T&A) operator
position, operator position terminal (OPT). The three call loop data blocks
(TALOOPDB) are dumped, which contain information concerning the T&A calls at
the operator position. The T/A operator position data block (TAPOSDB), which
contains the operator status and the supplementary protocol data block (SPB),
contains data communications information concerning the ISDN DSL connected to
the OPT. Also prints the EIS data blocks when the call at the position is associated
with an external information system.

PKL2DATA
= Print the level 2 collected data associated with the packet utility call trace. These
include: D-channel control block (DCCB) and the logical link control block (LLCB).

PKTSUM
= Print the summary information of the packet utility call trace for B- and
D-channels. This includes the local and remote directory numbers, call type, call
connection, destination SM, and destination port or trunk group for each active
LCN. For inter-switch calls, the trunk group number on the destination SM will be
displayed. For intra-SM and inter-SM calls, the port number on the destination SM
will be displayed.

PROC
= Print the process control block linkage area (PCBLA), the port link area
(PORTLA), D-channel process block (DPB), and LTSB data block (DLTSDBDB) [for
line time slot bridging (LTSB) ports only] in an OP:TRC-PROC output message.

SHDN
= Print the data blocks associated with a shared directory number (SHDN) call.
These include the analog data block (ADB), shared call model data block (SCMDB), and logical termination busy/idle status (LTMSTAT).

SRVOT
= Print the call and service related data for OS PS listing services (LS). The block dumped is SRVOT, which is used by originating treatment (OT) and the EIS interface to store data that must be saved through OS DS restarts.

WRLS
= Prints the data associated with a wireless call. It includes the Autoplex® call table (APXCTBL), the Autoplex® feature data block, and the general purpose annex data block(s) (GPAXDB),

e = Directory number. For packet call trace only.

4. SYSTEM RESPONSE

NG
= No good. May also include:
- BAD OPTION = Incompatible options were selected.
- INTERNAL ERROR = An unexpected condition was encountered during processing.
- INVALID DN = An invalid DN was entered.
- NO DATA COLLECTED = The requested data was not collected.
- PID = There is no data for the given process ID.

PF
= Printout follows. May also include:
- EVENT n = The requested trace data (identified by event number ’n’) will be printed out as a series of OP:TRC output messages that all have the given event flag. The data printed reflects the most recent trace data collected.

5. REFERENCES

Input Message(s):

TRC:UTIL

Output Message(s):

OP:TRC-EVENT

Other Manual(s):
Where ‘x’ is the release-specific version of the specified manual.

235-105-110 Switch Maintenance Requirements and Tools
235-105-220 Corrective Maintenance Procedures
235-190-115 Local and Toll System Features
235-600-20x Dynamic Data

MCC Display Page(s):

131-132 (CALL TRACE MENU)
133-138 (HARDWARE CALL TRACE - 1 THROUGH 6)
139 (ISDN PACKET SWITCH CALL TRACE)
140 (HARDWARE CALL TRACE)
150 (TRACEABLE CALL STATUS)
151 (CONFERENCE CIRCUIT TRACE)
OP:TRCU

Software Release: 5E14 and later
Command Group: ONTC
Application: 5
Type: Input

1. PURPOSE

Requests a print-out of the Transmission Rate Converter Unit (TRCU) information associated with the specified TRCU path (TRCP) or the TRCU3 control time slot (TCTS) number.

2. FORMAT

OP:TRCU, {TRCP=a-b|TCTS=c}

3. EXPLANATION OF MESSAGE

a = Switching module (SM) number.

b = TRCU path value. Refer to the APP:RANGES in the Appendixes section of the Input Messages manual.

c = TCTS value. Refer to the APP:RANGES in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

NG = No good. The message syntax is valid, but the request conflicts with the current system or equipment status. Valid values are:
- DB READ ERR = The DB couldn't be read.
- UNEQUIPPED = The SM isn't equipped with the TRCU path.
- NO MATCH = The TCTS wasn't found.
- UNEQ SM = The SM isn't equipped.
- NOT ORM = The SM isn't an ORM/EXM2000.
- INVLD PATH = TRCU path is out of range.

PF = Print-out follows. An OP:TRCU output message follows in response to the request.

RL = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

Output Message(s):

OP:TRCU

Input Appendix(es):

APP:RANGES

MCC Display Page(s):
1201,XX (ORM DLI/NLI/TMSLNK SET XX)
OP:TRFC15
Software Release: 5E14 and later  
Command Group: MEAS  
Application: 5  
Type: Input

1. PURPOSE
Requests the 15-minute traffic report at a time other than the regularly scheduled time.

2. FORMAT
OP:TRFC15;

3. EXPLANATION OF MESSAGE
No variables.

4. SYSTEM RESPONSE
NG  = No good. May also include:
   - DATA NOT AVAILABLE AT THIS TIME = Report is being generated and, therefore, manual requests are locked out, or the report has not generated since an initialization.

PF  = Printout follows. The request has been received and is being processed. If the report is available, it will follow. Otherwise, an error message will follow.

5. REFERENCES
Output Message(s):
   OP:TRFC15-PT01
   OP:TRFC15-PT02A
   OP:TRFC15-PT02B

Other Manual(s):
235-070-100  Administration and Engineering Guidelines
OP:TRFC30

Software Release: 5E14 and later
Command Group: MEAS
Application: 5
Type: Input

1. PURPOSE

Requests the immediate output of the specified section of the 30-minute traffic report.

2. FORMAT

OP:TRFC30,a;

3. EXPLANATION OF MESSAGE

a = Name of the section to be printed. Refer to the APP:TRFC-SECTION appendix in the Appendixes section of the Input Messages manual for section names. For those sections that indicate identifiers in addition to section names, omitting the identifier on the "OP:TRFC30,a" input message line will cause whatever has been previously allowed to print. The identifier on the input message line will cause the specified record(s) to print (if available).

4. SYSTEM RESPONSE

NG = No good. May also include:
- CONFIGURATION NOT SUPPORTED = The section requested represents a configuration not present in this office.
- DATA NOT AVAILABLE AT THIS TIME = Report is being generated and therefore manual requests are locked out, or report has not generated since an initialization.
- DATA NOT COLLECTED = Data for this section was not collected.
- NOT ALLOWED FOR ROP OUTPUT = This section is not allowed for receive-only printer (ROP).
  The request was to print whatever records were previously allowed - and there were none.

NO = The requested action failed. May also include:
- FEATURE NOT AVAILABLE = The feature required to process the request is not present in the switch.

PF = Printout follows. Followed by the OP:TRFC30-ND output message.

5. REFERENCES

Input Message(s):

ALW:TRFC30
INH:TRFC30
OP:MEASTAT
OP:ST-TRFC30
Input Appendix(es):

APP:TRFC-SECTION

Output Message(s):

ALW:ST-TRFC30
ALW:TRFC30
INH:TRFC30
OP:MEASTAT-CLCT
OP:MEASTAT-PRNT
OP:ST-TRFC30
OP:TRFC30-ND

Output Appendix(es):

APP:TRFC-SECTION

Other Manual(s):
235-070-100 Administration and Engineering Guidelines
OP:TRUNK

Software Release: 5E14 and later
Command Group: TRKLN
Application: 5
Type: Input

1. PURPOSE

Requests report of trunks being held off-hook and out of service.

Format 1 reports all trunk groups. Format 2 reports all of the members in a trunk group. Format 3 reports an individual trunk group and member.

2. FORMAT

[1] OP:TRUNK;

3. EXPLANATION OF MESSAGE

a = Trunk group number.
b = Trunk member number.

4. SYSTEM RESPONSE

NA = No acknowledgement. Request has not been acknowledged. It is probable that the request has been lost.

PF = Printout follows. Request has been accepted. Followed by the OP:TRUNK output message identifying the results of the request.

5. REFERENCES

Input Message(s):

CLR:TRUNK
MON:TRUNK

Output Message(s):

OP:TRUNK
OP:TSESS-DS
  Software Release: 5E14 and later
  Command Group: SM
  Application: 5
  Type: Input

1. PURPOSE

Display, on the TLWS SLIM page 162, the status of subscriber line and instrument measurement (SLIM) routine mode test session.

2. FORMAT

OP:TSESS:DISPLAY,SESS=a;

3. EXPLANATION OF MESSAGE

a = Identity of the test session (1 - 40).

4. SYSTEM RESPONSE

NG = No good. May also include:
  - TEST SESSION a NOT DEFINED

NA = Not acknowledgement.

PF = Printout follows.

5. REFERENCES

MCC Display Page(s):
  162 (TESTSESSION STATUS)
OP:TSESS
Software Release: 5E14 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE
Request to output the status of subscriber line and instrument measurement (SLIM) routine mode test session in ROP.

2. FORMAT
OP:TSESS,SESS=a;

3. EXPLANATION OF MESSAGE
a = Identity of the test session (1 - 40).

4. SYSTEM RESPONSE
NG = No good. May also include:
   - TEST SESSION a IS NOT DEFINED

PF = Printout follows.

5. REFERENCES
None.
58. OP:U
OP:ULARP-COM

Software Release: 5E14 and later
Command Group: MAINT
Application: 5,3B
Type: Input

1. PURPOSE

Requests the status of run input messages.

2. FORMAT

OP:ULARP, COMMAND={ALL | a};

3. EXPLANATION OF MESSAGE

a = Name of equipment configuration database (ECD) record for run input message.

4. SYSTEM RESPONSE

PF = Printout follows. Followed by the OP:ULARP-COM output message.

5. REFERENCES

Input Message(s):

INIT:ULARP
OP:ULARP-EXEC
OP:ULARP-PROC

Output Message(s):

OP:ULARP-COM
REPT:ULARP

Other Manual(s):
235-105-110   System Maintenance Requirements and Tools
235-105-210   Routine Operations and Maintenance
235-105-220   Corrective Maintenance
OP:ULARP-EXEC

Software Release: 5E14 and later
Command Group: MAINT
Application: 5,3B
Type: Input

1. PURPOSE
Requests a listing of the execution sequence of child processes and run input message during a bootstrap or user initialization procedure.

2. FORMAT

OP:ULARP,EXECSEQ=(BOOT|CFTINIT);

3. EXPLANATION OF MESSAGE

BOOT = List processes and input message for a bootstrap procedure.
CFTINIT = List processes and input message for an initialization procedure.

4. SYSTEM RESPONSE

PF = Printout follows. Followed by the OP:ULARP-EXEC output message.

5. REFERENCES

Input Message(s):

INIT:ULARP
OP:ULARP-COM
OP:ULARP-PROC

Output Message(s):

OP:ULARP-EXEC
REPT:ULARP

Other Manual(s):
235-105-110 System Maintenance Requirements and Tools
235-105-210 Routine Operations and Maintenance
235-105-220 Corrective Maintenance
OP:ULARP-PROC

Software Release: 5E14 and later
Command Group: MAINT
Application: 5.3B
Type: Input

1. PURPOSE

Requests the status of UNIX® level automatic restart process (ULARP) child processes.

2. FORMAT

OP:ULARP,PROCESS={ALL|a};

3. EXPLANATION OF MESSAGE

a = Name of equipment configuration data base (ECD) record for ULARP child process.

4. SYSTEM RESPONSE

PF = Printout follows. Followed by the OP:ULARP-PROC output message.

5. REFERENCES

Input Message(s):

INIT:ULARP
OP:ULARP-COM
OP:ULARP-EXEC

Output Message(s):

OP:ULARP-PROC
REPT:ULARP

Other Manual(s):
235-105-110 System Maintenance Requirements and Tools
235-105-210 Routine Operations and Maintenance
235-105-220 Corrective Maintenance
OP:UMBILMAP

Software Release: 5E14 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Request output containing the busy/idle status of host umbilical channels

2. FORMAT

OP:UMBILMAP, UMBIL=a-b-c;

3. EXPLANATION OF MESSAGE

   a = Host switching module (HSM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

   b = Remote switching module (RSM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

   c = Host umbilical (UMBIL) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

   NG = No good. Valid value(s):
       - DATA BASE READ FAILURE = Failure in reading database for this facility.
       - FACILITY IS NOT AN UMBILICAL FACILITY. = Facility is not an HSM to/from an RSM umbilical facility.
       - UNIT DOES NOT EXIST = Bad unit number.

   PF = Printout follows. The request has been accepted and is being processed. The OP:UMBILMAP output message will follow.

   RL = Retry later.

5. REFERENCES

Output Message(s):

   OP:UMBILMAP

Input Appendix(es):

   APP:RANGES

Other Manual(s):

   235-105-220 Corrective Maintenance Manual
   235-105-250 System Recovery Manual
MCC Display Page(s):

1740,xxx,yyy (HOST UMBILICALS (1 - 10))
1741,xxx,yyy (HOST UMBILICALS (11 - 20))
OP:UMEM

**Software Release:** 5E14 and later  
**Command Group:** SFTUTIL  
**Application:** 5,3B  
**Type:** Input

1. **PURPOSE**

Causes the contents of the administrative module (AM) generic access package (GRASP) trace to be dumped to a file. The trace goes into the DUMPED state with the successful completion of the input message. The output is formatted depending upon the type of trace specified with the INIT:UMEM input message.

2. **FORMAT**

```
OP:UMEM[:UCL][:MCH];
```

3. **EXPLANATION OF MESSAGE**

- **MCH** = Dump trace memory of inactive control unit (CU) using the maintenance channel (MCH). This option should only be used in extreme cases in which the sanity of the off-line CU is in question and it is not desirable to perform a switch to that CU.

- **UCL** = Unconditionally dump trace memory.

4. **SYSTEM RESPONSE**

- **NG** = No good. No trace is defined.

- **PF** = Printout follows. Followed by the OP:UMEM output message.

- **RL** = Retry later or wait for previous OP:UMEM to complete. The system is in an overload condition.

5. **REFERENCES**

**Input Message(s):**

- DUMP:F-ALL  
- DUMP:F-PARTL  
- INIT:UMEM  
- OP:UTIL

**Output Message(s):**

- OP:UMEM  
- OP:UTIL

---

235-600-700  
December 2003

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OP:UNAV

Software Release: 5E14 and later
Command Group: AM
Application: 5,3B
Type: Input

1. PURPOSE
Requests a list of all currently unavailable administrative module (AM) hardware units. This format provides a list of all unavailable units of a particular type.

2. FORMAT
OP:UNAV[,a{[=b][,c=d]})]

3. EXPLANATION OF MESSAGE

a = Unit name. AM unit names are listed in the APP:MEM-NUM-UNIT appendix in the Appendixes section of the Input Messages manual.

b = Unit number. Refer to the APP:MEM-NUM-UNIT appendix in the Appendixes section of the Input Messages manual.

c = Subunit name, if a=CU. AM control unit (CU) subunit names are listed in the APP:MEM-NUM-CU appendix in the Appendixes section of the Input Messages manual.

d = Subunit number. Refer to the APP:MEM-NUM-CU appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

PF = Printout follows. Followed by the OP:UNAV output message.

RL = Retry later.

?D = Data field error.

5. REFERENCES

Input Message(s):

OP:CFGSTAT

Output Message(s):

OP:CFGSTAT
OP:UNAV

Input Appendix(es):
OP:UNEQIP

Software Release: 5E14 and later
Command Group: AM
Application: 5,3B
Type: Input

1. PURPOSE

Requests a list of all currently unequipped administrative module (AM) hardware units. This format provides a list of all unequipped units of a particular type.

2. FORMAT

OP:UNEQIP[,{a=[b][,c=d]}];

3. EXPLANATION OF MESSAGE

a = Unit name. Administrative module (AM) unit names are listed in the APP:MEM-NUM-UNIT appendix in the Appendixes section of the Input Messages manual.

b = Unit number. Refer to the APP:MEM-NUM-UNIT appendix in the Appendixes section of the Input Messages manual.

c = Subunit name, if a=CU. Administrative module (AM) control unit (CU) subunit names are listed in the APP:MEM-NUM-CU appendix in the Appendixes section of the Input Messages manual.

d = Subunit number. Refer to the APP:MEM-NUM-CU appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

PF = Printout follows. Followed by the OP:UNEQIP output message.

RL = Retry later.

?D = Data field error.

5. REFERENCES

Input Message(s):

OP:CFGSTAT

Output Message(s):

OP:CFGSTAT
OP:UNEQIP

Input Appendix(es):
OP:UPART

Software Release: 5E16(1) and later
Command Group: TRKLN
Application: 5
Type: Input

1. PURPOSE

To request status of the User Part specified by the input OPC (originating point code) /DPC (destination point code) pair.

2. FORMAT

OP:UPART,OPC=a,DPC=b[,SIGTYPE=c];

3. EXPLANATION OF MESSAGE

a = Originating point code (OPC) consisting of a nine digit number. Refer to the APP:POINT-CODE appendix.

b = Destination point code (DPC) consisting of a nine digit number. Refer to the APP:POINT-CODE appendix.

c = Signaling Type. Valid Value(s) are:
   - BICC

4. SYSTEM RESPONSE

PF = Printout follows. Followed by the OP UPART output message

5. REFERENCES

Output Message(s):

   OP:UPART

Input Appendix(es):

   APP:POINT-CODE
OP:UT-CMP

Software Release: 5E14 and later
Command Group: SFTUTIL
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Requests a report on the status of one or all of the generic utilities WHEN (breakpoint) clauses in the communications module processor (CMP).

This message may be used together with any of the other CMP generic utilities input messages. Refer to the References section of this message.

If this message is used together with other generic utility messages, the END:UT-CMP input message may be used to signal the end of the series of messages.

WARNING: The user takes responsibility for any effects on system operation that result from the use of this input message. Know the effects of the message before using it.

2. FORMAT

OP:UT-CMP=a,{MATE|PRIM},{UTIL|UTILFLAG=b};

3. EXPLANATION OF MESSAGE

MATE = Execute this input message on the standby CMP.
PRIM = Execute this input message on the active CMP.
UTIL = Report the status (active or inhibited) of all WHEN breakpoint clauses in the specified CMP.
a = CMP number.
b = The identification number of a specific WHEN breakpoint clause for which the status is to be reported. Must be a number from 0 to 127.

4. SYSTEM RESPONSE

Refer to the APP:UT-IM-REASON appendix in the Appendixes section of the Input Messages manual.

5. REFERENCES

Input Message(s):

ALW:UT-CMP
CLR:UT-CMP
COPY:UT-CMP
DUMP:UT-CMP
ELSE:UT-CMP
Output Message(s):

OP: UT-CMP

Input Appendix(es):

APP: UT-IM-REASON

Other Manual(s):
235-105-110  *System Maintenance Requirements and Tools*
OP:UT-MCTSI-PI

Software Release: 5E14 and later
Command Group: SFTUTIL
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Requests a report on the status of one or all of the generic utilities WHEN clauses in the specified packet interface unit (PI).

Note: This input message is only supported on PIs of the PI2 hardware type.

WARNING: The user is responsible for any effects on system operation that result from the use of this input message. Know the effects of the message before using it.

2. FORMAT

OP:UT:MCTSI=a-b,PI,{{UTILITY|UTILITY.FLAG=c}{!|;}}

3. EXPLANATION OF MESSAGE

UTIL = Report the status (active or inhibited) of all WHEN clauses in the specified PI.
a = Switching module (SM) number.
b = Side of the module controller/time-slot interchange (MCTSI).
c = The identification number of a specific WHEN breakpoint clause for which the status is to be reported. Must be a number from 0 to 127.

4. SYSTEM RESPONSE

Refer to the APP:UT-IM-REASON appendix in the Appendixes section of the Input Messages manual.

5. REFERENCES

Input Message(s):

ALW:UT-MCTSI-PI
CLR:UT-MCTSI-PI
COPY:UT-MCTSI-PI
DUMP:UT-MCTSI-PI
ELSE:UT-MCTSI-PI
END:UT-MCTSI-PI
EXC:UT-MCTSI-PI
IF:UT-MCTSI-PI
IF:UT-MCTSI-PE
INH:UT-MCTSI-PI
OP:UT-PSUPH-A

Software Release: 5E14 - 5E15
Command Group: SFTUTIL
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Requests a report on the status of one or all of the generic utilities WHEN (breakpoint) clauses in the specified packet switch unit protocol handler (PSUPH).

Note: This input message is only supported on PSUPHs of the PH3/PH4 hardware type (that is, not PH2 hardware types).

This message may be used together with any of the other PSUPH generic utilities input messages. Refer to the References section of this message.

If this message is used together with other generic utility messages, the END:UT-PSUPH input message may be used to signal the end of the series of messages.

WARNING: The user is responsible for any effects on system operation that result from the use of this input message. Know the effects of the message before using it.

2. FORMAT

OP:UT:PSUPH=a-b-c-d,{UTIL|UTILFLAG=e};

3. EXPLANATION OF MESSAGE

UTIL = Report the status (active or inhibited) of all WHEN breakpoint clauses in the specified PSUPH.
a = Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
b = Unit number (always 0).
c = Shelf number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
d = Slot number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
e = The identification number of a specific WHEN breakpoint clause for which the status is to be reported. Must be a number from 0 to 127.

4. SYSTEM RESPONSE

Refer to the APP:UT-IM-REASON appendix in the Appendixes section of the Input Messages manual.
5. REFERENCES

Input Message(s):

ALW:UT-PSUPH
CLR:UT-PSUPH
COPY:UT-PSUPH
DUMP:UT-PSUPH
ELSE:UT-PSUPH
END:UT-PSUPH
EXC:UT-PSUPH
IF:UT-PSUPH
IF:UT-PSUPH-END
INH:UT-PSUPH
LOAD:UT-PSUPH
WHEN:UT-PSUPH

Output Message(s):

OP:UT-PSUPH

Input Appendix(es):

APP:UT-IM-REASON

Other Manual(s):
235-105-110 System Maintenance Requirements and Tools
235-600-400 Audits
OP:UT-PSUPH-B

Software Release: 5E16(1) and later
Command Group: SFTUTIL
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Requests a report on the status of one or all of the generic utilities WHEN (breakpoint) clauses in the specified packet switch unit protocol handler (PSUPH).

Note: This input message is not supported on PSUPHs of the PH2 hardware type and is supported on all others.

This message may be used together with any of the other PSUPH generic utilities input messages. Refer to the References section of this message.

If this message is used together with other generic utility messages, the END:UT-PSUPH input message may be used to signal the end of the series of messages.

WARNING: The user is responsible for any effects on system operation that result from the use of this input message. Know the effects of the message before using it.

2. FORMAT

OP:UT:PSUPH=a-b-c-d, {UTIL|UTILFLAG=e} {!|;}

3. EXPLANATION OF MESSAGE

<table>
<thead>
<tr>
<th>Symbol</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>UTIL</td>
<td>Report the status (active or inhibited) of all WHEN breakpoint clauses in the specified PSUPH.</td>
</tr>
<tr>
<td>a</td>
<td>Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.</td>
</tr>
<tr>
<td>b</td>
<td>Packet Switching Unit (PSU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.</td>
</tr>
<tr>
<td>c</td>
<td>Shelf number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.</td>
</tr>
<tr>
<td>d</td>
<td>Slot number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.</td>
</tr>
<tr>
<td>e</td>
<td>The identification number of a specific WHEN breakpoint clause for which the status is to be reported. Must be a number from 0 to 127.</td>
</tr>
</tbody>
</table>

4. SYSTEM RESPONSE

Refer to the APP:UT-IM-REASON appendix in the Appendixes section of the Input Messages manual.
5. REFERENCES

Input Message(s):

ALW:UT-PSUPH
CLR:UT-PSUPH
COPY:UT-PSUPH
DUMP:UT-PSUPH
ELSE:UT-PSUPH
END:UT-PSUPH
EXC:UT-PSUPH
IF:UT-PSUPH
IF:UT-PSUPH-END
INH:UT-PSUPH
LOAD:UT-PSUPH
WHEN:UT-PSUPH

Output Message(s):

OP:UT-PSUPH

Input Appendix(es):

APP:RANGES
APP:UT-IM-REASON

Other Manual(s):
235-105-110 System Maintenance Requirements and Tools
235-600-400 Audits
OP:UT-SM

Software Release: 5E14 and later
Command Group:
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Requests a report on the status of one or all of the generic utilities WHEN (breakpoint) clauses in the switching module (SM).

This message may be used together with any of the other SM generic utilities input messages. Refer to the References section of this message. If this message is used together with other generic utility messages, the END:UT-SM input message may be used to signal the end of the series of messages.

WARNING: The user is responsible for any effects on system operation that result from the use of this input message. Know the effects of the message before using it.

2. FORMAT

OP:UT:SM=a[&b],{UTIL|UTILFLAG=c};

3. EXPLANATION OF MESSAGE

UTIL = Report the status (active or inhibited) of all WHEN breakpoint clauses in the specified SM(s).

a = SM number or the lower limit of a range of SM numbers.

b = Upper limit of a range of SM numbers.

c = The identification number of a specific WHEN breakpoint clause for which the status is to be reported. Must be a number from 0 to 127.

4. SYSTEM RESPONSE

Refer to the APP:UT-IM-REASON appendix in the Appendixes section of the Input Messages manual.

5. REFERENCES

Input Message(s):

ALW:UT-SM
CLR:UT-SM
COPY:UT-SM
DUMP:UT-SM
ELSE:UT-SM
END:UT-SM
EXC:UT-SM
IF:UT-SM
IF:UT-SM-ENDIF
INH:UT-SM
LOAD:UT-SM
WHEN:UT-SM

Output Message(s):

OP:UT-SM

Input Appendix(es):

APP:UT-IM-REASON

Other Manual(s):
235-105-110 System Maintenance Requirements and Tools
OP:UTIL

Software Release: 5E14 and later
Command Group: SFTUTIL
Application: 5,3B
Type: Input

1. PURPOSE

Requests lists of currently defined central processor (CP) or administrative module (AM) AM generic access package (GRASP) breakpoints, their status and trace status.

2. FORMAT

OP:UTIL;

3. EXPLANATION OF MESSAGE

No variables.

4. SYSTEM RESPONSE

?A = Message not allowed in a WHEN action list. May also include:
    - INVALID KEYWORD

PF = Printout follows. Followed by the OP:UTIL output message.

RL = Retry later. The system is in an overload condition or completing the previous OP:UMEM or OP:UMEM:MCH message.

5. REFERENCES

Input Message(s):

INIT:UMEM
OP:ST-PROC
WHEN:PID
WHEN:UID

Output Message(s):

OP:UTIL
WHEN:PID
WHEN:UID
59. OP:V
OP:VERS

Software Release: 5E15 and later
Command Group: CM
Application: 5
Type: Input

1. PURPOSE

Outputs the current firmware version of the CM3 ONTC or CM3 MSGS requested at the Master Control Center (MCC) and the Switching Control Center (SCC). This message is applicable for CM3 hardware only.

2. FORMAT

OP:VERS,a=b;

3. EXPLANATION OF MESSAGE

a = Unit. Valid value(s):
   MSGS = CM3 message switch unit requested.
   ONTC = CM3 office network and timing complex unit requested.

b = Side value of the unit. Valid value(s):
   0
   1

4. SYSTEM RESPONSE

NG = No good. May also include:
   - ACTION FIELD ERROR = Input fields are not correct.
   - UNIT ENEQUIPPED = Unit requested is not equipped.
   - UNIT OOS = Unit requested is not in service.
   - VALID FOR CM3 ONLY = Unit is not CM3 vintage.

PF = Printout follows. The request was accepted. Followed by the OP:VERS output message.

5. REFERENCES

Output Message(s):

OP:VERS
OP:VERSION
Software Release: 5E14 and later
Command Group:
Application: 5
Type: Input

1. PURPOSE
Requests the generic text version and software update level by file system partition. This information can be used to identify the generic text version and software update level of the partitions should they become detached from the equipment configuration database (ECD).

2. FORMAT
OP:VERSION[,ALL];

3. EXPLANATION OF MESSAGE

ALL = List of all of the history of changes to the generic text version and software update level since the last generic retrofit. If ALL is not specified, only the latest (current) generic text version and software update level, by partition, is listed.

4. SYSTEM RESPONSE

PF = Printout follows. Followed by one or more OP:VERSION output message(s).

5. REFERENCES
Input Message(s):

UPD:VERSION

Output Message(s):

OP:VERSION
UPD:VERSION
60. OP:W
OP:WCPE
Software Release: 5E14 and later
Command Group: TRKLN
Application: AEWNC
Type: Input

1. PURPOSE

Requests that maintenance information be collected for an *Air Extension*™ wireless phone. This input message collects the following information:

- Indication of whether the wireless phone is a wireless test set or a subscriber's wireless phone.
- Tenant group wireless phone is assigned to.
- Electronic serial number stored in the wireless network controller (WNC) for the wireless phone.
- Terminal ID stored in the WNC for the wireless phone.
- Port status of the wireless phone's associated W-card line.
- Registration state of the wireless phone.
- Registration area the wireless phone is registered in if applicable.
- Call state of the wireless phone.
- Alert ID assigned to the wireless phone by the WNC if applicable.
- Status of wireless phone's visual message waiting indicator (MWI) as maintained in the WNC.
- Hook status of wireless phone's associated wired phone.
- Service restriction assigned to the wireless phone if any.

2. FORMAT

OP:WCPE,{DN=a | LCKEN=b-c-d-e-f};

3. EXPLANATION OF MESSAGE

Note: Refer to the Acronym section of the Input Messages manual for the full expansion of acronyms shown in the format.

a = 10 digit wireless directory number (DN).

b = Switching module (SM) in which the wireless phone's W-card line exists. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

c = Integrated services line unit version 2 (ISLU2) in which the wireless phone's W-card line exists. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

d = Line group number of wireless phone's W-card line. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
e = Line board number of wireless phone’s W-card line. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

f = Line circuit number of wireless phone’s W-card line. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

RL = Retry Later. The request has been denied, probably due to system load.

PF = Printout follows. The request has been accepted and is followed by an OP WCPE output message.

5. REFERENCES

Output Message(s):

OP:WCPE

Input Appendix(es):

APP:RANGES

Other Manual(s):

230-701-100 Air ExtensionSM Reference Guide
230-701-120 Air ExtensionSM User Guide
OP:WSDATA

Software Release: 5E14 and later
Command Group: TRKLN
Application: 5
Type: Input

1. PURPOSE
Requests the immediate or automatic printing of test results from the specified trunk and line work station (TLWS) test position (TP).

2. FORMAT

OP:WSDATA, TP=a[,LOG[,USERDEF]];

3. EXPLANATION OF MESSAGE

LOG = Echo output that normally only goes to the TLWS screen to the ROP. This parameter toggles the log option. If the log option is off, it is toggled on. If the log option is on, it is toggled off.

USERDEF = Requests a display of all the user defined defaults for the test position: CHAN, BLKSZ, FREQ, LEVEL, OPDGTS, TERM, TESTEQ, and T&M NUMBER.

a = TLWS TP number.

4. SYSTEM RESPONSE

NG = No good. Refer to the APP:TLWS appendix in the Appendixes section of the Output Messages Manual for an explanation of TLWS error responses.

OK = Good.

5. REFERENCES

Input Message(s):

SET:WSPOS

Output Message(s):

OP:WSDATA

Output Appendix(es):

APP:TLWS

Other Manual(s):

235-100-125 System Description
235-105-110 System Maintenance Requirements and Tools
Corrective Maintenance

MCC Display Page(s):

160 (TRUNK & LINE MAINT)
OP:WSSTAT

Software Release: 5E14 and later
Command Group:
Application: 5
Type: Input

1. PURPOSE

Requests the testing status of one or all trunk and line work station (TLWS) test positions (TP).
The summary shows which TPs are available to be selected by the SET:WSPOS input message.

2. FORMAT

OP:WSSTAT [,TP=a] [,ROP];

3. EXPLANATION OF MESSAGE

ROP = If entered, the results of this input message will go to the ROP and the terminal. Without this optional parameter, the results will only be displayed on the terminal.

a = TLWS TP number. If no TP is requested, then a summary line giving TLWS global parameters is provided. If the TP requested is zero (0), then all TPs are reported.

4. SYSTEM RESPONSE

NG = No good. Refer to the APP:TLWS appendix in the Appendixes section of the Output Messages Manual for an explanation of TLWS error responses.

PF = Printout follows. Followed by the OP:WSSTAT output message.

5. REFERENCES

Input Message(s):

SET:WSPOS

Output Message(s):

OP:WSSTAT

Output Appendix(es):

APP:TLWS

Other Manual(s):

235-100-125 System Description

MCC Display Page(s):
160 (TRUNK & LINE MAINT)
61. ORD
ORD:CPI

Software Release: 5E14 and later  
Command Group: SYSRCVY  
Application: 5  
Type: Input  

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Requests that switching modules (SM) be reconfigured or forced by sending administrative module intervention (AMI) messages (CMD) to either a single SM, to a range of SMs, or broadcast to all SMs.

This message allows the selection of four distinct paths from the administrative module (AM) to the SM. Eight paths may be achieved by switching to the mate AM and repeating the ORD:CPI messages.

WARNING: This message should be used only when normal communication with the SM fails. Use variable 'd' options FRC, INH, RESET, and SW with caution.

2. FORMAT

ORD:CPI=a[&&b][-c[-d]],CMD=e[-f],UCL;

3. EXPLANATION OF MESSAGE

UCL = Send the message down all four paths until the SM acknowledges or all paths are tried. This option cannot be entered if a range of 1 to 192 is specified.

a = SM number or lower limit for a range of SMs.

b = Upper limit for a range of SMs.

Note: For a simultaneous broadcast to all SMs, a range of 1 to 192 should be specified. Any other range will result in sending individual messages to specified SMs.

c = Office network and timing complex (ONTC) side 0 or 1 (defaults to active major ONTC).

d = Even (0) or odd (1) NCT link to the SMs (defaults to logical link 0).

e = Type of CPI input message to be sent to the SMs. Valid value(s):

ALW = Allow the sanity timer.
CLR = Clear the force on the specified SMs.
FRC = Force the specified module controller/time slot interchange units (MCTSI) to the active state. This will cause a single process purge if a processor switch is involved.
GRSW = Generic retrofit switch. Force the specified MCTSIs to the active state and cause a full initialization. This input message should only be used as directed during a retrofit.
INH = Inhibit the sanity timer.
RESET = Reset the specified SM. This will result in a full initialization.
SW = Switch the MCTSI to the specified side, then force that side to the active state.

Note: When using the SW option for CMD, a failure will occur if SM
diagnostics are running. Always check the SM status and verify that no diagnostics are running on the SM.

\[ f \] = Side 0 or 1 of the MCTSI (required for FRC, GRSW, and SW input messages).

4. SYSTEM RESPONSE

\[ PF \] = Printout follows. Followed by the ORD:CPI output message.

5. REFERENCES

Output Message(s):

ORD:CPI

MCC Display Page(s):

1190 (MCTSI/DLI/RLI)
1800 (INHIBIT AND RECOVERY CONTROL)
ORD:DLOOP-A

**Software Release:** 5E14 - 5E15  
**Command Group:** TRKLN  
**Application:** 5  
**Type:** Input

1. **PURPOSE**

Establishes or releases a connection between a network digital loop and a specific digital trunk.

2. **FORMAT**

```
ORD:DLOOP,{OPR[=a] | RLS},b;
```

3. **EXPLANATION OF MESSAGE**

**NOTE:** Refer to the Acronym section of the Input Messages manual for the full expansion of acronyms shown in the format.

- **OPR** = Establishes (operates) a connection.
- **RLS** = Release a connection.

- **a** = The time limit or duration, in seconds, to maintain the connection. The time limit is 3600 seconds in 1 second increments. The default is 30 seconds. (This is only valid when the OPR keyword is specified.)

- **b** = Test parameter. Valid value(s):
  - DEN=c-d-e-f = Test a single digital trunk.
  - NEN=c-g-h-i-j-k-l-m = Test a single digital trunk on a digital network unit - synchronous optical network (SONET) (DNU-S).

- **c** = Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

- **d** = Digital line and trunk unit (DLTU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

- **e** = Digital facility interface (DFI) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

- **f** = Channel number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual. If this is a DFI-2, channels 1-24 are associated with facility T1 A and channels 25-48 are associated with facility T1 B. Otherwise, there is only one T1 facility.

- **g** = Digital networking unit - SONET (DNU-S) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

- **h** = Data group (DG) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

- **i** = SONET terminal equipment (STE) facility number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
j = Synchronous transport signal (STS) facility number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

k = Virtual tributary group (VTG) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

l = Virtual tributary member (VTM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

m = Digital signal level 0 (DS0) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

PF = Printout follows. Followed by the ORD:DLOOP output message.

RL = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

Output Message(s):

ORD:DLOOP

Input Appendix(es):

APP:RANGES
1. PURPOSE

Establishes or releases a connection between a network digital loop and a specific digital trunk.

2. FORMAT

ORD:DLOOP,{OPR[a]|RLS},b;

3. EXPLANATION OF MESSAGE

NOTE: Refer to the Acronym section of the Input Messages manual for the full expansion of acronyms shown in the format.

OPR = Establishes (operates) a connection.
RLS = Release a connection.
a = The time limit or duration, in seconds, to maintain the connection. The time limit is 3600 seconds in 1 second increments. The default is 30 seconds. (This is only valid when the OPR keyword is specified.)
b = Test parameter. Valid value(s):
   DEN=c-d-e-f = Test a single digital trunk.
   NEN=c-g-h-i-j-k-l-m = Test a single digital trunk on a digital network unit - synchronous optical network (SONET) (DNU-S).
   OIUEN=c-n-o-i-j-k-l-m = Test a single digital trunk on an optical interface unit (OIU).

c = Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
d = Digital line and trunk unit (DLTU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
e = Digital facility interface (DFI) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
f = Channel number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual. If this is a DFI-2, channels 1-24 are associated with facility T1 A and channels 25-48 are associated with facility T1 B. Otherwise, there is only one T1 facility.
g = Digital networking unit - SONET (DNU-S) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
h = Data group (DG) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
i = SONET terminal equipment (STE) facility number. For OIU-NAR, it is OC-3. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

j = Synchronous transport signal (STS) facility number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

k = Virtual tributary group (VTG) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

l = Virtual tributary member (VTM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

m = Digital signal level 0 (DS0) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

n = Optical Interface Unit (OIU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

o = Protection Group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

PF = Printout follows. Followed by the ORD:DLOOP output message.

RL = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

Output Message(s):

ORD:DLOOP

Input Appendix(es):

APP:RANGES
1. PURPOSE

Reads the state of a particular digital trunk to determine if the far end (originator) is on/off-hook.

Format 1 digital equipment number (DEN) reads the state of a single digital trunk.

Format 2 networking equipment number (NEN) reads the state of a single digital trunk on a digital network unit - synchronous optical network (SONET) (DNU-S).

2. FORMAT

[1] ORD:SCAN,DEN=a-b-c-d;

[2] ORD:SCAN,NEN=a-e-f-g-h-i-j-k;

3. EXPLANATION OF MESSAGE

Note: Refer to the Acronym section of the Input Messages manual for the full expansion of acronyms shown in the format.

a = Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

b = Digital line and trunk unit (DLTU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

c = Digital facility interface (DFI) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

d = Channel number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual. If this is a DFI-2, channels 1-24 are associated with facility T1 A and channels 25-48 are associated with facility T1 B. Otherwise there is only one T1 facility.

e = Digital Networking Unit - SONET (DNU-S) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

f = Data group (DG) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

g = SONET Terminal Equipment (STE) facility number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

h = Synchronous transport signal (STS) facility number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

i = Virtual tributary Group (VTG) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
j = Virtual tributary Member (VTM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

k = Digital signal level 0 (DS0) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

PF = Printout follows. Followed by the ORD:SCAN output message.

RL = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

Output Message(s):

   ORD: SCAN

Input Appendix(es):

   APP: RANGES
1. PURPOSE
Reads the state of a particular digital trunk to determine if the far end (originator) is on/off-hook.

2. FORMAT
ORD:SCAN,a;

3. EXPLANATION OF MESSAGE
Refer to the Acronym section of the Input Messages manual for the full expansion of acronyms shown in the format.

a = State parameter. Valid value(s):
DEN=b-c-d-e = Read the state of a single digital trunk.
NEN=b-f-g-h-i-j-k-l = Read the state of a single digital trunk on a digital network unit - synchronous optical network (SONET) (DNU-S).
OIUEN=b-m-n-h-i-j-k-l = Read the state of a single digital trunk on an optical interface unit (OIU).

b = Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

c = Digital line and trunk unit (DLTU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

d = Digital facility interface (DFI) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

e = Channel number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual. If this is a DFI-2, channels 1-24 are associated with facility T1 A and channels 25-48 are associated with facility T1 B. Otherwise, there is only one T1 facility.

f = Digital networking unit - SONET (DNU-S) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

g = Data group (DG) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

h = SONET terminal equipment (STE) facility number. For OIU-NAR, it is OC-3. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

i = Synchronous transport signal (STS) facility number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

j = Virtual tributary group (VTG) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

k = Virtual tributary member (VTM) number. Refer to the APP:RANGES appendix in the Appendixes
section of the Input Messages manual.

l  = Digital signal level 0 (DS0) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

m  = Optical Interface Unit (OIU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

n  = Protection Group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

PF  = Printout follows. Followed by the ORD:SCAN output message.

RL  = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

Output Message(s):

ORD:SCAN

Input Appendix(es):

APP:RANGES
ORD:SCSD

Software Release: 5E14 and later
Command Group: AM
Application: 5,3B
Type: Input

1. PURPOSE

Requests that one of four distribution operations be performed on a scanner and signal distributor (SCSD) distribute point.

Distribute points can be identified by physical location as shown in Format 1 or by logical address as shown in Format 2.

2. FORMAT

[1] ORD:SCSD:UNIT=a,PT=b[-b-b-b-b-b-b-b],OPR=f;

3. EXPLANATION OF MESSAGE

a = Member number of the SCSD unit. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

b = Physical distribute point number on an SCSD (0-31).

c = Name of the logical SCSD group. Valid value(s):

   ACPALARM
   FANACU0
   FANACU1
   PRSWCU0
   PRSWCU1
   PRSWDFC0
   PRSWDFC1
   PRSWIOP0
   PRSWIOP1
   PRSWMHD0
   PRSWMHD1

d = Duplex point ID (0 or 1).

e = Number of a point within a logical group (0-5).

f = Operation to be done on the distribute point. Valid value(s):

   OPERATE = Set.
   RELEASE = Clear.
   REPEAT = Flash continuously.
   STEP = Flash for eight seconds, which terminates in the cleared state.

4. SYSTEM RESPONSE
NG = No good. SCSD administrator process is not active; no communication with SCSD points is possible.

PF = Printout follows. Followed by the ORD:SCSD output message.

RL = Retry later.

5. REFERENCES

Output Message(s):

ORD:SCSD
REPT:SCSD
ORD:TONE-A
Software Release: 5E14 - 5E15
Command Group: TRKLN
Application: 5
Type: Input

1. PURPOSE
Establishes or releases a connection between a network 1004 Hz tone and a specific digital trunk.

Format 1 digital equipment number (DEN) tests a single digital trunk.

Format 2 networking equipment number (NEN) tests a single digital trunk on a digital network unit - synchronous optical network (SONET) (DNU-S).

2. FORMAT


3. EXPLANATION OF MESSAGE

Note: Refer to the Acronym section of the Input Messages manual for the full expansion of acronyms shown in the format.

OPR = Establishes a connection.
RLS = Release a connection.
a = The time limit or duration (DUR) in seconds, of the connection (1 to 1800). The default is 30 seconds. (This is only valid when the OPR keyword is specified.)
b = Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
c = Digital line and trunk unit (DLTU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
d = Digital facility interface (DFI) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
e = Channel number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual. If this is a DFI-2, channels 1-24 are associated with facility T1 A and channels 25-48 are associated with facility T1 B. Otherwise there is only one T1 facility.
f = Digital Networking Unit - SONET (DNU-S) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
g = Data group (DG) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
h = Signaling Terminal Equipment (STE) facility number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
i = Synchronous transport signal (STS) facility number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

j = Virtual tributary Group (VTG) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

k = Virtual tributary Group (VTM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

l = Digital signal level 0 (DS0) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

PF = Printout follows. Followed by the ORD:TONE output message.

RL = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

Output Message(s):

ORD:TONE

Input Appendix(es):

APP:RANGES
ORD:TONE-B

Software Release: 5E16(1) and later
Command Group: TRKLN
Application: 5
Type: Input

1. PURPOSE

Establishes or releases a connection between a network 1004 Hz tone and a specific digital trunk.

2. FORMAT

ORD:TONE, {OPR[=a]|RLS}, b;

3. EXPLANATION OF MESSAGE

Refer to the Acronym section of the Input Messages manual for the full expansion of acronyms shown in the format.

OPR = Establishes a connection.
RLS = Release a connection.

a = The time limit or duration (DUR) in seconds, of the connection (1 to 1800). The default is 30 seconds. (This is only valid when the OPR keyword is specified.)

b = Test parameter. Valid value(s):
DEN=c-d-e-f = Test a single digital trunk.
NEN=c-g-h-i-j-k-l-m = Test a single digital trunk on a digital network unit - synchronous optical network (SONET) (DNU-S).
OIUEN=c-n-o-i-j-k-l-m = Test a single digital trunk on an optical interface unit (OIU).

c = Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
d = Digital line and trunk unit (DLTU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
e = Digital facility interface (DFI) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
f = Channel number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual. If this is a DFI-2, channels 1-24 are associated with facility T1 A and channels 25-48 are associated with facility T1 B. Otherwise, there is only one T1 facility.
g = Digital networking unit - SONET (DNU-S) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
h = Data group (DG) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
i = Signaling terminal equipment (STE) facility number. For OIU-NAR, it is OC-3. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
j = Synchronous transport signal (STS) facility number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

k = Virtual tributary group (VTG) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

l = Virtual tributary group (VTM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

m = Digital signal level 0 (DS0) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

n = Optical Interface Unit (OIU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

o = Protection Group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

PF = Printout follows. Followed by the ORD:TONE output message.

RL = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

Output Message(s):

ORD:TONE

Input Appendix(es):

APP: RANGES
ORD:TRK-A
Software Release: 5E14 - 5E15
Command Group: TRKLN
Application: 5
Type: Input

1. PURPOSE

This message will report the out-going supervision state of a trunk (on/off-hook) or set the trunk to on or off-hook.

Format 1 digital equipment number (DEN) reads the state of a single digital trunk.

Format 2 networking equipment number (NEN) reads the state of a single digital trunk on a digital network unit - synchronous optical network (SONET) (DNU-S).

2. FORMAT

[1] ORD:TRK, {OFFHOOK | ONHOOK | READ}, DEN=a-b-c-d;
[2] ORD:TRK, {OFFHOOK | ONHOOK | READ}, NEN=a-e-f-g-h-i-j-k;

3. EXPLANATION OF MESSAGE

Note: Refer to the Acronym section of the Input Messages manual for the full expansion of acronyms shown in the format.

OFFHOOK = Set the trunk off-hook.
ONHOOK = Set the trunk on-hook.
READ = Read the out-going supervision of the trunk.

a = Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

b = Digital line and trunk unit (DLTU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

c = Digital facility interface (DFI) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

d = Channel number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual. If this is a DFI-2, channels 1-24 are associated with facility T1 A and channels 25-48 are associated with facility T1 B. Otherwise there is only one T1 facility.

e = Digital Networking Unit - SONET (DNU-S) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

f = Data group (DG) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

g = SONET Terminal Equipment (STE) facility number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
4. SYSTEM RESPONSE

PF = Printout follows. Followed by the ORD:TRK output message.

RL = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

Output Message(s):

ORD:TRK

Input Appendix(es):

APP:RANGES
1. PURPOSE

This message will report the out-going supervision state of a trunk (on/off-hook) or set the trunk to on or off-hook.

2. FORMAT

ORD:TRK,a,b;

3. EXPLANATION OF MESSAGE

Refer to the Acronym section of the Input Messages manual for the full expansion of acronyms shown in the format.

a = Trunk setting. Valid value(s):
  OFFHOOK = Set the trunk off-hook.
  ONHOOK = Set the trunk on-hook.
  READ = Read the out-going supervision of the trunk.

b = Read parameter. Valid value(s):
  DEN=c-d-e-f = Read the state of a single digital trunk.
  NEN=c-g-h-i-j-k-l-m = Reads the state of a single digital trunk on a digital network unit - synchronous optical network (SONET) (DNU-S).
  OIUEN=c-n-o-i-j-k-l-m = Reads the state of a single digital trunk on an optical interface unit (OIU).

c = Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

d = Digital line and trunk unit (DLTU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

e = Digital facility interface (DFI) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

f = Channel number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual. If this is a DFI-2, channels 1-24 are associated with facility T1 A and channels 25-48 are associated with facility T1 B. Otherwise, there is only one T1 facility.

g = Digital networking unit - SONET (DNU-S) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

h = Data group (DG) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

i = SONET terminal equipment (STE) facility number. For OIU-NAR, it is OC-3. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

j = Synchronous transport signal (STS) facility number. Refer to the APP:RANGES appendix in the
Appendixes section of the Input Messages manual.

k = Virtual tributary group (VTG) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

l = Virtual tributary member (VTM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

m = Digital signal level 0 (DS0) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

n = Optical Interface Unit (OIU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

o = Protection group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

PF = Printout follows. Followed by the ORD:TRK output message.

RL = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

Output Message(s):

ORD:TRK

Input Appendix(es):

APP:RANGES
62. RCV
1. PURPOSE

Requests a recent change and verify (RC/V) session using the text input option.

The text input option is not menu-driven and does not require a terminal that has cursor control.

The input message consists of the message itself or the message plus one or more message line parameters to be passed to the APPTEXT process. If the parameters are not entered on the message line, they may be entered after the APPTEXT process begins but prior to the first "FORM=" statement. Refer to the Recent Change Procedures 235-118-252 manual for information on performing recent changes on the message line.

A session is composed of one or more text recent change operations. Operations are tasks specified within a session to perform a unit of work (for example: change the data for a particular telephone line).

2. FORMAT

[1] RCV:APPTEXT;

    [,VFYNMVAL|,VFYSCIMG][,DEVICE={STDOUT|ROP|ROP0|FILE|TTYx}],
    [,VERSION=X],
    FORM=...,DATA,FORM=...,END;

3. EXPLANATION OF MESSAGE

DATA = If the user is performing more than one recent change operation on a single line of input to the text interface, ".DATA" must be used after "APPTEXT." In addition, ",DATA" must be used before each subsequent ",FORM=" statement in the single-line input.

DEVICE = Redirect verify output to a device other than the user's terminal. Valid value(s):
FILE = Send verify output to a file in "/rclog". The file will be prefixed with "RCTX", and the user will be given the name of the file at the beginning and end of the APPTEXT session.
ROP/ROP0 = Send verify output to the ROP.
STDOUT = Send verify output to user's terminal. This is the default.
TTYx = Send verify output to any valid tty (such as ttya and ttyv) that exists in "/dev." The user must use the tty name, not tty number.

END = Terminating keyword.

FORM = Recent Change view upon which an operation is to be performed.

VERBOSE = Turn on one-line logging message of recent changes (RCs) on the receive-only printer (ROP) for the current session only. The default is no logging.

The one-line logging message has the following format:
RCV SUCCESS|FAILURE RCV-Form-Name RC-Operation Key(s) TERM-ID=terminal-name

VERSION = Translate APPTEXT input messages from software release X to the current software release. The value of X is an integer that specifies a software release supported for translation of input messages. If the value of X is equal to the software release on the switch, then no translation of input messages will be performed.

VFYEND = Print verify output at the end of the APPTEXT session. This is the default. With this option, the number of verifies per APPTEXT session is limited by the amount of file space in the "rclog" partition.

VFYIMMED = Print verify output immediately after each verify instead of at the end of the session. Verify output must be directed to a device other than the user's terminal.

VFYNMVAL = Print verify output in name-value pair format. Must be redirected to a file.

VFYSCIMG = Print verify output in screen-image format. This is the default.

Valid Option Combinations

<table>
<thead>
<tr>
<th>Format</th>
<th>When</th>
<th>Allowed to ROP</th>
<th>Allowed to STDOUT</th>
<th>Allowed to TTYx</th>
<th>Allowed to FILE</th>
</tr>
</thead>
<tbody>
<tr>
<td>VFYNMVAL</td>
<td>VFYIMMED</td>
<td>NO</td>
<td>NO</td>
<td>NO</td>
<td>NO</td>
</tr>
<tr>
<td>VFYNMVAL</td>
<td>VFYEND</td>
<td>NO</td>
<td>NO</td>
<td>NO</td>
<td>YES</td>
</tr>
<tr>
<td>VFYSCIMG</td>
<td>VFYIMMED</td>
<td>NO</td>
<td>NO</td>
<td>YES*</td>
<td>NO</td>
</tr>
<tr>
<td>VFYSCIMG</td>
<td>VFYEND</td>
<td>YES</td>
<td>YES</td>
<td>YES</td>
<td>YES</td>
</tr>
</tbody>
</table>

* Immediate verify output cannot be directed to the user's terminal or the SCC terminal.

4. SYSTEM RESPONSE

OK = Good. The request has been received. This will be the response when recent changes are not performed on the message line. The user will be put into the APPTEXT session.

PF = Printout follows. A printout will follow on the terminal and on the ROP indicating the end of the APPTEXT session. This will be the response when recent changes are performed on the message line. Sessions initiated from the Master Control Center (MCC) and Switching Control Center (SCC) will get a detailed log printout of session input text. Any requested verify output will be printed to the user's terminal unless the user has redirected the verify output.

5. REFERENCES

Input Message(s):

OP: RCACCESS
RCV:M-APPRC
SET: RCACCESS

Output Message(s):

RCV: FAILURE
Other Manual(s):

Where 'x' is the release-specific version of the document.

235-118-251  Recent Change Procedures
235-118-25x  Recent Change Reference
235-600-10x  Translations Data
235-600-20x  Dynamic Data
235-900-30x  Recent Change - Operations Systems Interface Specification
RCV:DMTECD-RC

Software Release: 5E14 and later
Command Group: SPECRCV
Application: 5,3B
Type: Input

1. PURPOSE

Invokes the text recent change and verify (RC/V) activity; this format is used to insert, update, or delete records in the equipment configuration database (ECD) using serial text input.

Text RC/V is similar to forms RC/V (trbegin, trend, dbdump, etc.) with the following exceptions: Interactive feedback is on a line basis, not on data fields, and so forth. Errors will be flagged after a message line. All key fields must be entered (no defaults) before any data fields. Assigned default values are not viewable without a secondary operation (refer RCV:DMTECD-VFY). Review/change-insert mode is not supported. A text RC/V session is a single logical message that can be broken into one or more physical lines between keyword units. When the message is broken into multiple lines, a continuation character ("!") must be entered at the end of each line. At the end of continued lines, an acknowledgment is printed, followed by a prompt for more input. Zero or more form operations can be performed per text RC/V session. The session continues until a line is entered without the continuation character. Note, the shell cannot parse an execute character on a line by itself. A text RC/V session is divided into two processing segments: process parameters and process forms. The parameter processing must be first and must be successfully completed before forms processing is allowed. No parameter processing can be done once forms processing has begun. The valid text parameters are shown in this section. The parameter section follows the invocation and ends with the next END or FORM keyword. Note that these keywords cannot be entered on the first line of parameter input. The parameters are verified and errors are generated as needed. If errors are associated with a noncontinued line, the errors are output as a spooler message. Text RC/V recognizes:

ABORTFORM = Aborts a particular form operation.
END = Checks termination status. (Not recognized within a form operation.)
FORM = Begins a form operation.
MSG = Reports an error message when an error occurs during form processing.
SET = This keyword must be used if the field name in the keyword-data-pair (parameter 'f') is part of a structure or list, or contains nonalphanumeric characters.

2. FORMAT

RCV:DMTECD:RC,(DB=|DBF=){a}[|MasKs=|b][|c]||d];
[FORM=e|&g|f,|g][|,END];

3. EXPLANATION OF MESSAGE

DB = The ECD to be processed is not in loadfile format.
DBF = The ECD to be processed is in loadfile format.
a = Name of the data base to be processed. It may be the pathname of a data base file or:
broot = Backup (/broot) full-configuration data base (valid only if backup file system is mounted).
brootdmly = Backup (/broot) minimum-configuration data base (valid only if backup file system
is mounted).

- `incore` = In-core copy.
- `root` = Root copy of full-configuration data base.
- `rootdmly` = Root copy of minimum-configuration data base.

b = Pathname of the directory containing the mask description files. Default = /lla/ecdmasks.

c = JOURNAL/NJOURNAL option. Valid value(s):
- `JOURNAL` = Print all forms from insert, delete, and updates requests to /etc/rcvecd.journal. (Default)
- `NJOURNAL` = Do not print forms from insert, delete, or updates requests to etc/rcvecd.journal.

d = SYSGEN/NSYSGEN option. Valid value(s):
- `SYSGEN` = Enable the system generation mode of operation. This should only be used when executing a dbload or data base evolution because the changes are written into the data base as applied rather than at the end of the transaction block.
- `NSYSGEN` = Disable the system generation mode of operation. Changes are not applied to the data base until the end of the transaction block. (Default)

e = Formtype name of form to be recent changed. Valid names are listed in the Recent Change and Verify User's Guide.

f = Keyword_data_pair-This argument is in the general form of a keyword and an argument, where keyword is usually a form field name, and argument is the data for that field. Valid field names and argument values are listed in the Recent Change and Verify User's Guide. The 'f' argument must be in one of the following formats:
- keyword, ...
- keyword=data, ...
- SET=keyword, ...
- SET=keyword & data, ...
- ABORTFORM, ...

Note: Fatal errors are written to /etc/dmtecd.err.

4. SYSTEM RESPONSE

PF = Printout follows. Followed by RCV:DMTECD-VFY output message.
5. REFERENCES

Input Message(s):

   RCV:DMTECD-VFY
   RCV:DMTSG-RC
   RCV:DMTSG-VFY
   RCV:M-RCVECD
   RCV:M-RCVSG

Output Message(s):

   RCV:DMTECD-VFY

Other Manual(s):

Where 'x' is the release-specific version of the specified manual.

235-600-30x   ECD/SG Data Base
RCV:DMTECD-VFY

Software Release: 5E14 and later
Command Group: SPECRCV
Application: 5,3B
Type: Input

1. PURPOSE
Invokes the text recent change and verify (RC/V) activity; this format is used to review equipment configuration database (ECD) forms using serial text input.

2. FORMAT
RCV:DMTECD:VFY, {DB|DBF="a"}[,MASKS="b"]!
,FORM="c",d,VFY,END;

3. EXPLANATION OF MESSAGE

DB = The ECD to be processed is not in loadfile format.
DBF = The ECD to be processed is in loadfile format.
a = Name of the database to be processed. It may be the pathname of a database file or:
  broot = Backup (/broot) full-configuration database (valid only if backup file system is mounted).
  brootdmly = Backup (/broot) minimum-configuration database (valid only if backup file system is mounted).
  incore = In-core copy.
  root = Root copy of full-configuration database.
  rootdmly = Root copy of minimum-configuration database.

b = Pathname of the directory containing the mask description files. Default = /lla/ecdmasks.
c = Formtype name of form to be reviewed. Valid names are listed in the Recent Change and Verify User's Guide.
d = Keyword_data_pair-This argument is in the general form of a keyword and an argument, where keyword is usually a form field name, and argument is the data for that field. Valid field names and argument values are listed in the Recent Change and Verify User's Guide. The 'd' argument must be in one of the following formats:
  keyword, ...
  keyword=data, ...
  SET=keyword, ...
  SET=keyword & data, ...
  ABORTFORM, ...

4. SYSTEM RESPONSE
PF = Printout follows. Followed by RCV:DMTECD-VFY output message.
5. REFERENCES

Input Message(s):

RCV:DMTECD–RC
RCV:DMTSG–RC
RCV:DMTSG–VFY
RCV:M–RCVECD
RCV:M–RCVSG

Output Message(s):

RCV:DMTECD–VFY

Other Manual(s):

Where 'x' is the release-specific version of the document.

235-600-30x ECD/SG Data Base
RCV:DMTSG-RC

Software Release: 5E14 and later
Command Group: SPECRCV
Application: 5,3B
Type: Input

1. PURPOSE

Invokes the text recent change and verify (RC/V) activity. This format is used to insert, update, or delete records in the system generation (SG) database using serial text input.

Text RC/V is similar to forms RC/V (trbegin, trend, dbdump, etc.) with the following exceptions: Interactive feedback is on a line basis, not on data fields, etc. Errors will be flagged after a message line. All key fields must be entered (no defaults) before any data fields. Assigned default values are not viewable without a secondary operation. Refer to the RCV:DMTECD-VFY output message. Review/change-insert mode is not supported. A text RC/V session is a single logical message that can be broken into one or more physical lines between keyword units. When the message is broken into multiple lines, a continuation character ("!" ) must be entered at the end of each line. At the end of continued lines, an acknowledgment is printed, followed by a prompt for more input. Zero or more form operations can be performed per text RC/V session. The session continues until a line is entered without the continuation character. Note, the shell cannot parse an execute character on a line by itself. A text RC/V session is divided into two processing segments: process parameters and process forms. The parameter processing must be first and must be successfully completed before forms processing is allowed. No parameter processing can be done once forms processing has begun. The valid text parameters are shown in this section. The parameter section follows the invocation and ends with the next END or FORM keyword. Note that these keywords cannot be entered on the first line of parameter input. The parameters are verified and errors are generated as needed. If errors are associated with a noncontinued line, the errors are output as a spooler message. Text RC/V recognizes:

ABORTFORM = Aborts a particular form operation.
END = Checks termination status. (Not recognized within a form operation.)
FORM = Begins a form operation.
MSG = Reports an error message when an error occurs during form processing.
SET = This keyword must be used if the field name in the keyword-data-pair (parameter 'f') is part of a structure or list, or contains nonalphanumeric characters.

2. FORMAT

RCV:DMTSG:RC,DB="a",MASKS="b",[c],[d];
[FORM="e"&g;f,g],[END];

3. EXPLANATION OF MESSAGE

a = Name of the system generation (SG) data base to be processed. Valid value(s):
broot = Backup (/broot) full-configuration data base (valid only if backup file system is mounted).
brootdmy = Backup (/broot) minimum-configuration data base (valid only if backup file system is mounted).
incore = In-core copy.
root = Root copy of full-configuration data base.
rootdmly = Root copy of minimum-configuration data base.
        = The pathname of a data base file.

b = Pathname of the directory containing the mask description files. Default = /lla/sgmasks.

c = JOURNAL/NJOURNAL option. Valid value(s):
   JOURNAL = Print all forms from insert, delete, and updates requests to /etc/rcvsg.journal.
              (Default)
   NJOURNAL = Do not print forms from insert, delete, or updates requests to /etc/rcvsg.journal.

d = SYSEN/NSYSGEN option. Valid value(s):
   NSYSGEN = Disable the system generation mode operation. Changes are not applied to the
              data base until the end of the transaction check. (Default)
   SYSGEN = Enable the system generation mode of operation. This should only be used when
             executing a dbload or data base evolution because the changes are written into the
             data base as applied rather than at the end of the transaction block.

e = Formtype name of form to be recent changed. Valid names are listed in the Recent Change and
Verify User's Guide.

f = Keyword_data_pair-This argument is in the general form of a keyword and an argument, where
keyword is usually a form field name, and argument is the data for that field. Valid field names and
argument values are listed in the Recent Change and Verify User's Guide. The 'f' argument must be
in one of the following formats:
   keyword, ...
   keyword=data, ...
   SET=keyword, ...
   SET=keyword & data, ...
   ABORTFORM, ...

        g = This argument is shown twice in the format. The first instance is used to indicate the desired
operation to be performed on the associated form-type. The second instance is used to indicate the
actual execution of the desired operation once all data has been entered for the form. Valid
value(s):
   CHG = The form is to be updated in the data base.
   NEW = The form is to be inserted into the data base.
   OUT = The form is to be deleted from the data base.
   XEQ = The form is to be executed. This is the default operation type, but is only valid on
        executable form-types.

Note: Fatal errors are written to /etc/dmtsg.err.

4. SYSTEM RESPONSE

PF = Printout follows. Followed by RCV:DMTSG-VGY output message.
5. REFERENCES

Input Message(s):

  RCV:DMTECD–RC
  RCV:DMTECD–VFY
  RCV:DMTSG–VFY
  RCV:M–RCVECD
  RCV:M–RCVSG

Output Message(s):

  RCV:DMTSG–RC

Other Manual(s):

Where 'x' is the release-specific version of the document.

235-600-30x ECD/SG Data Base
RCV:DMTSG-VFY

**Software Release:** 5E14 and later
**Command Group:** SPECRCV
**Application:** 5,3B
**Type:** Input

1. **PURPOSE**

Invokes the text recent change and verify (RC/V) activity. This format is used to review system generation (SG) database forms using serial text input.

2. **FORMAT**

RCV:DMTSG:VFY, DB="a" [, MASKS="b"] !
FORM="c", d, VFY, END;

3. **EXPLANATION OF MESSAGE**

- **a** = Name of the SG database to be processed. Valid value(s):
  - broot = Backup (/broot) full-configuration data base (valid only if backup file system is mounted).
  - brootdmly = Backup (/broot) minimum-configuration data base (valid only if backup file system is mounted).
  - root = Root copy of full-configuration data base.
  - rootdmly = Root copy of minimum-configuration data base.
  - = The pathname of a data base file.

- **b** = Pathname of the directory containing the mask description files. The default is /lla/sgmasks.

- **c** = Formtype name of form to be reviewed. Valid names are listed in the Recent Change and Verify User's Guide.

- **d** = Keyword_data_pairs-This argument is in the general form of a keyword and an argument, where keyword is usually a form key field name, and argument is the data for that field. Valid key field names and argument values are listed in the Recent Change and Verify User's Guide. The 'd' argument must be in one of the following formats:
  - keyword, ...
  - keyword=data, ...
  - SET=keyword, ...
  - SET=keyword&data, ...
  - ABORTFORM, ...

  All key fields must be specified.

**Note:** Fatal errors are written to /etc/0mteed.err.

4. **SYSTEM RESPONSE**

- **OK** = Good. Input line successfully processed.
- **PF** = Printout follows. Followed by RCV:DMTSG-VFY output message.
?E = An error exists in the message. May also include:
- n ERROR MESSAGE LINES = Enter "MSG!" 'n' times, to view 'n' messages.
- NO MORE ERROR MESSAGES = All errors have been viewed.
- n WARNING MESSAGES LINES = Enter "MSG!" 'n' times, to view 'n' messages.

5. REFERENCES

Input Message(s):

RCV:DMTECD-RC
RCV:DMTECD-VFY
RCV:DMTSG-RC
RCV:M-RCVECD
RCV:M-RCVSG

Output Message(s):

RCV:DMTSG-VFY

Other Manual(s):

Where 'x' is the release-specific version of the document.

235-600-30x ECD/SG Data Base
RCV:M-ACCED

Software Release: 5E14 and later
Command Group: N/A
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Requests that the switch access dictionary editor tool (ACCED) be run. In an ACCED session, the following office-dependent database (ODD) error detection and correction operations are available: DESTROY, HASHSIM, OVERWRITE, REORG, REVIEW, and SCAN.

WARNING: Incorrect use of OVERWRITE and DESTROY operations in ACCED can cause serious damage to a system database. ACCED’s OVERWRITE and DESTROY operations should never be used without expert technical assistance.

The DESTROY operation destroys a single data page, a single intermediate date page, or an entire relation. The HASHSIM operation simulates staged hashing to help determine optimal hashing parameters for database reorganization of hashed relations. The OVERWRITE operation overwrites one, two, or four bytes of ODD data. The REORG operation executes a manual reorganization of an ODD relation. The REVIEW operation supports several ways to review disk and memory ODD data. The SCAN operation searches an ODD relation for corruption one tuple at a time. Each ACCED operation has an associated output message that is printed only when output message printing is activated (this is accomplished by typing ‘p’ at any prompt in ACCED).

2. FORMAT

RCV:MENU:ACCED;

3. EXPLANATION OF MESSAGE

No variables.

4. SYSTEM RESPONSE

PF = Printout follows. The request has been received. The user will now be put into the ACCED session. A completion message will follow when the ACCED session is terminated.

5. REFERENCES

Output Message(s):

REPT:ACCED-ACCDIC
REPT:ACCED-DATA
REPT:ACCED-DESTRO
REPT:ACCED-HASHSI
REPT:ACCED-INFO
REPT:ACCED-OVERWR
REPT:ACCED-REORG
REPT:ACCED-SCAN
Other Manual(s):
235-105-110  System Maintenance Requirements and Tools
235-105-220  Corrective Maintenance
235-600-100  Translations Data
RCV:M-APPRC
Software Release: 5E14 and later
Command Group: N/A
Application: 5
Type: Input

1. PURPOSE
Runs the switch office-dependent data (ODD) application recent change (APPRC) and verify functions.

2. FORMAT
RCV:MENU,APPRC[,VERBOSE][,PRINT[,NPRINT][,DETAIL[,NDETAIL]]];

3. EXPLANATION OF MESSAGE
DETAIL = Print a detailed summary of each RC/V operation performed on the ROP.
NDETAIL = Do not print a detailed summary (default).
NPRINT = Do not print the RC/V form. If the user specifies the “P” option, the request is denied if the NPRINT option was entered (default).
PRINT = Print the RC/V form at the RC/V printer if the user requests it (by specifying the “P” option).
VERBOSE = Turn on one-line logging message of recent changes (RCs) on the receive-only printer (ROP) for the current session only. The default is no logging.

The verbose logging has the following format: RCV SUCCESS|FAILURE RC/V-Form-Name RC-Operation Key(s) TERM-ID=terminal-name

4. SYSTEM RESPONSE
PF = Printout follows. The request has been received. The user will now be put into the recent change session. A completion message will follow when the session is terminated.

5. REFERENCES
Output Message(s):
RCV:SUCCESS
RCV:FAILURE

Other Manual(s):
Where ‘x’ is the release-specific version of the document.
235-118-221 Recent Change Procedures - Batch Release
235-118-222 Recent Change Menu/Text Interface
235-118-251 Recent Change Procedures
235-118-25x Recent Change Reference
235-600-10x Translations Data
Dynamic Data
RCV:M-BKUPCHK

Software Release: 5E14 and later
Command Group: N/A
Application: 5
Type: Input

1. PURPOSE

Requests that the validity of /no5text/bkup/*.ptn files be checked. The validity check is done by comparing the check
sum value of each /no5text/bkup/*.ptn file against the sum value stored in /no5text/bkup/bkupsum file.

2. FORMAT

   RCV:MENU:BKUPCHK;

3. EXPLANATION OF MESSAGE

   No variables.

4. SYSTEM RESPONSE

   PF = Printout follows. Followed by RCV:MENU-BKUPCHK output message.

5. REFERENCES

   Output Message(s):
   
   RCV:MENUT-BKUPCHK

   Other Manual(s):
   235-105-210   Routine Operations and Maintenance
RCV:M-BROWSE

Software Release: 5E14 and later
Command Group: N/A
Application: 5,3B
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Reads or patches an administrative module database using the "browse" tool. This tool is not supported on the maintenance terminal (MCRT) or on a Switching Control Center (SCC) terminal.

WARNING: Incorrect use of this message can cause serious damage to a system database. It should never be used without expert technical assistance.

2. FORMAT

RCV:MENU,BROWSE[,STDIN=“a”][,STDOUT=“b”][,STDERR=“c”];

3. EXPLANATION OF MESSAGE

a = Pathname of the file to be used for redirection of standard input.

b = Pathname of the file to be used for redirection of standard output.

c = Pathname of the file to be used for redirection of standard error.

4. SYSTEM RESPONSE

PF = Printout follows. Followed by RCV:MENU output message.

5. REFERENCES

Input Message(s):

RCV:M-COMAREDB
RCV:M-CREATEECD
RCV:M-CREATESG
RCV:M-EVOL
RCV:M-FDIFF
RCV:M-KEYCMP
RCV:M-KEYCOMM
RCV:M-KEYS
RCV:M-LOADF3B
RCV:M-NEWDB
RCV:M-PRINTDB
RCV:M-PRINTFRM
RCV:M-RCVECD
RCV:M-RCVSG
RCV:M-TRANSGEN
RCV:M–TREEBLD
RCV:M–VFYDFLT

Output Message(s):

RCV:M–MENU
RCV:M-CNIDBOC

Software Release: 5E14 and later
Command Group: N/A
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Requests that the common network interface data base consolidator (CNIDBOC) be run.

WARNING: Using the CNIDBOC tool to perform insert, delete, and update operations by-passes the normal form of checking that Recent Change and Verify (RC/V) uses. If used improperly, common channel signaling (CCS) service degradation could result.

2. FORMAT

RCV:MENU:CNIDBOC;

3. EXPLANATION OF MESSAGE

No variables.

4. SYSTEM RESPONSE

PF = Printout follows. The request has been received. The user will now be put into the CNIDBOC session. A completion message will follow when the session is terminated.

5. REFERENCES

Output Message(s):

RCV:MENU

Other Manual(s):
235-105-210  Routine Operations and Maintenance
RCV:M-CNIGROWTH

Software Release: 5E14 and later
Command Group: N/A
Application: 5
Type: Input

1. PURPOSE

Requests that the common network interface (CNI) growth script be executed.

2. FORMAT

RCV:MENU:CNIGROWTH;

3. EXPLANATION OF MESSAGE

No variables.

4. SYSTEM RESPONSE

PF = Printout follows. The request has been received. The user will now be put in the CNIGROWTH session. A completion message will follow when the session is terminated.

5. REFERENCES

None.
1. PURPOSE

Compares the equipment configuration database (ECD) and the system generation (SG) database. It creates three files for each formtype:

outdir/keycmp/formtype = Contains form keys in three columns, keys found only in the ECD, keys only found in SG, and keys found in both ECD and SG.

outdir/keycomm/formtype = Contains form keys found in both ECD and SG in one column.

outdir/fdiff/formtype = Contains a comparison of all forms that are in both ECD and SG.

In each case "outdir" and "formtype" are replaced by the arguments entered with the keywords OUTDIR and FORM, respectively.

RCV:M-CMPRDB is usually preceded by executing RCV:M-NEWDB.

2. FORMAT

RCV:MENU,COMPAREDB,RCV="a",MASKS="b",DB1="c",NEWDIR1="d",DB2="e",NEWDIR2="f",OUTDIR="g",FORM="h",STDERR="i";

3. EXPLANATION OF MESSAGE

a = Name of the recent change and verify (RC/V) program (rcvecd or rcvsg).

b = Pathname of the directory containing the mask files used by RC/V. Default= /lla/ecdmasks, or /lla/sgmasks.

c = Name of ECD or SG data base for DB1. Valid value(s):
broot = Backup (/broot) full-configuration data base (valid only if backup file system is mounted).
brootdmly = Backup (/broot) minimum-configuration data base (valid only if backup file system is mounted).
incore = In-core copy.
root = Root copy of full-configuration data base.
rootdmly = Root copy of minimum-configuration data base.

Note: Any data base name used in the RCV:M-CREATEECD or RCV:M-CREATESG input message may be used here.

d = Pathname of the directory which contains all the keys for DB1.

e = Pathname of ECD or SG data base for DB2.
f  = Pathname of the directory which contains all the keys for DB2.

g  = Pathname of the output directory where the comparison will be written.

h  = Form type(s) to be compared. Up to 20 may be entered. Valid form types are listed in the Recent Change and Verify User's Guide.

i  = Pathname of the file for redirection of standard error.

4. SYSTEM RESPONSE

PF  = Printout follows. Followed by RCV:MENU output message.

5. REFERENCES

Input Message(s):

RCV:M-BROWSE
RCV:M-CREATEECD
RCV:M-CREATESG
RCV:M-EVOL
RCV:M-FDIFF
RCV:M-KEYCMP
RCV:M-KEYCOMM
RCV:M-KEYS
RCV:M-LOADF3B
RCV:M-NEWDB
RCV:M-PRINTDB
RCV:M-PRINTFRM
RCV:M-RCVECD
RCV:M-RCVSG
RCV:M-TRANSGEN
RCV:M-TREEBLD
RCV:M-VFYDFLT

Output Message(s):

RCV:MENU

Other Manual(s):

235-600-30x  ECD/SG Data Base
RCV:M-CREATEECD

Software Release: 5E14 and later
Command Group: N/A
Application: 5,3B
Type: Input

1. PURPOSE

Requests that a skeleton equipment configuration database (ECD) be generated.

2. FORMAT

RCV:MENU,CREATEECD,DB="a",AUDINST=b[,APHORT=b[,APHUSER=b]]
[,AUDREC=b[,BTIHDEV=b[,BXSLLOC=b[,BXSLRMT=b[,DEVICE=b]
[,LOGDEV=b[,MDCT=b[,RUNA=b[,TSAPINFO=b[,UCB=b[,ULARP=b]
[,WORKHRS=b];

3. EXPLANATION OF MESSAGE

a = Pathname of the database skeleton to be created.

b = Estimated number of records to be contained in the specified set. The correct choice of values
   can reduce disk fragmentation and decrease processor time by eliminating unnecessary growth.
   Note: Message errors are written to /etc/createecd.err.

4. SYSTEM RESPONSE

OK = Good. Requested action initiated and completed.

PF = Printout follows. Followed by RCV:MENU output message.

5. REFERENCES

Input Message(s):

RCV:DMTECD-RC
RCV:DMTSG-RC
RCV:M-BROWSE
RCV:M-COMPAREDB
RCV:M-CREATESG
RCV:M-EVOL
RCV:M-FDIFF
RCV:M-KEYCMP
RCV:M-KEYCOMM
RCV:M-KEYS
RCV:M-LOADF3B
RCV:M-NEWDB
RCV:M-PRINTDB
RCV:M-PRINTFRM
RCV:M-RCVECD
RCV:M-RCVSG
RCV:M-TRANSGEN
RCV:M-TREEBLD
RCV:M-VFYDFLT

Output Message(s):

RCV: MENU

Other Manual(s):

Where 'x' is the release-specific version of the document.

235-600-30x   ECD/SG Data Base
RCV:M-CREATESG

Software Release: 5E14 and later
Command Group: N/A
Application: 5,3B
Type: Input

1. PURPOSE

Generates a skeleton system generation (SG) database

2. FORMAT

RCV:MENU,CREATESG, DB=\"a\" [,PACK=b] [,PROCESS=b] [,SHARE=b];

3. EXPLANATION OF MESSAGE

a = Pathname of the database skeleton to be created.
b = Estimated number of records to be contained in the specified set. The correct choice of these values can reduce disk fragmentation and decrease processor time by eliminating unnecessary growth of internal access structures.

Note: Message errors are written to /etc/createsg.err.

4. SYSTEM RESPONSE

PF = Printout follows. Followed by RCV:MENU output message.

5. REFERENCES

Input Message(s):
RCV:DMTECD–RC
RCV:DMTSG–RC
RCV:M–BROWSE
RCV:M–COMPAREDB
RCV:M–CREATEECD
RCV:M–EVOL
RCV:M–FDIFF
RCV:M–KEYCMP
RCV:M–KEYCOMM
RCV:M–KEYS
RCV:M–LOADF3B
RCV:M–NEWDB
RCV:M–PRINTDB
RCV:M–PRINTFRM
RCV:M–RCVECD
RCV:M–RCVSG
RCV:M–TRANSGEN
RCV:M–TREEBLD
RCV:M–VFYDFLT
Output Message(s):

RCV : MENU

Other Manual(s):
235-600-30x  ECD/SG Data Base
RCV:M-EVOL

Software Release: 5E14 and later
Command Group: N/A
Application: 5,3B
Type: Input

1. PURPOSE

Invokes a specified recent change activity; this format is used to evolve a new database from an old one. The databases are in dump format.

2. FORMAT

RCV:MENU,EVOL,OLD="a",DB="b",ORDER="c",NEW="d";

3. EXPLANATION OF MESSAGE

a = Pathname of the old database in dump/load format. This file was previously created by RCVECD or RCVSG upon insertion of the db_dump form.

b = Pathname of the translation database.

c = Pathname of the file containing the specification of the order of evolution; that is, the order in which new form types should appear in 'd'.

d = Pathname of the file to contain the evolved database in dump/load format. This file will be used as input to RCVECD or RCVSG upon insertion of the db_load form.

4. SYSTEM RESPONSE

PF = Printout follows. Followed by RCV:MENU output message.

5. REFERENCES

Input Message(s):

RCV:M-BROWSE
RCV:M-COMPAREDB
RCV:M-CREATEECD
RCV:M-CREATESG
RCV:M-FDIFF
RCV:M-KEYCMP
RCV:M-KEYCOMM
RCV:M-KEYS
RCV:M-LOADF3B
RCV:M-NEWDB
RCV:M-PRINTDB
RCV:M-PRINTFRM
RCV:M-RCVECD
RCV:M-RCVSG
RCV:M-TRANSGEN
RCV:M-TREEBLD
RCV: M–VFYDFLT

Output Message(s):

RCV: MENU
RCV:M-FATLP

Software Release: 5E15 and later
Command Group: MAINT
Application: 5
Type: Input

1. PURPOSE
Requests that the fault analysis trouble locating procedure (FATLP) tool be run.

2. FORMAT
RCV:MENU:FATLP;

3. EXPLANATION OF MESSAGE
No variables.

4. SYSTEM RESPONSE
PF = Printout follows. The request has been received. The user is put into the FATLP session. A completion message follows when the session is terminated.

5. REFERENCES
Other Manual(s):
235-105-220 Corrective Maintenance
235-900-304 Recent Change Operations Systems Interface Specification
RCV:M-FDIFF

Software Release: 5E14 and later
Command Group: N/A
Application: 5,3B
Type: Input

1. PURPOSE

Compares two form types. It compares the first form from PFILE1 with the first form from PFILE2, and continues this process for each successive form until reaching the end of the file. If any pair of forms should differ RCV:M-FDIFF prints the two database names, the form type, the form key(s), and the lines that differ.

2. FORMAT

RCV:MENU,FDIFF,MASK="a",PFILE1="b",PFILE2="c"
[,STDOUT="d"][,STDERR="e"];

3. EXPLANATION OF MESSAGE

a = Pathname of the mask file associated with the form type.
b = Pathname of the first printfile. (Usually the output of RCV:M-PRINTFRM which uses the output of RCV:M-KEYCOMM.)
c = Pathname of the second printfile. (Usually the output of RCV:M-PRINTFRM which uses the output of RCV:M-KEYCOMM.)
d = Pathname of the file for redirection of standard output.
e = Pathname of the file for redirection of standard error.

4. SYSTEM RESPONSE

PF = Printout follows. Followed by RCV:MENU output message.

5. REFERENCES

Input Message(s):

RCV:M-BROWSE
RCV:M-COMPAReDB
RCV:M-CREATEECD
RCV:M-CREATESG
RCV:M-EVOL
RCV:M-KEYCMP
RCV:M-KEYCOMM
RCV:M-KEYS
RCV:M-LOADF3B
RCV:M-NEWDB
RCV:M-PRINTDB
RCV:M-PRINTFRM
RCV:M-RCVECD
RCV:M-RCVSG
RCV:M-TRANSGEN
RCV:M-TREEBLD
RCV:M-VFYDFLT

Output Message(s):

RCV:MENU
RCV:M-GENBKUP

Software Release: 5E14 and later
Command Group: N/A
Application: 5
Type: Input

1. PURPOSE

Requests that the automatic generic backup process be started. The process makes copies of disks for backup purposes. The user will be prompted for selection of options for all necessary steps. Available options are: make backup tapes for administrative module (AM) and switching module (SM) text, and AM and SM office dependent data (ODD); make software backup disk for the primary disk pair (moving head disk (MHD) pair 0 and 1 copied to MHD 14 and 15); verify tape (verify that a tape is readable); and identify tape (identify the contents of a tape); and make tape operating procedure (TOP) tape.

It is strongly advised that the user follow the procedure for full office backup described in the Routine Operations and Maintenance manual.

2. FORMAT

RCV:MENU:GENBKUP;

3. EXPLANATION OF MESSAGE

No variables.

4. SYSTEM RESPONSE

PP = Printout follows. Followed by RCV:MENU-GENBKUP output message.

5. REFERENCES

Output Message(s):

RCV:MENU-GENBKUP

Other Manual(s):
235-105-210 Routine Operations and Maintenance

MCC Display Page(s):

195 (GENBKUP)
RCV:M-IREX

Software Release: 5E14 and later
Command Group: MAINT
Application: 5
Type: Input

1. PURPOSE

Invokes the installation routine exercise (IREX) user interface tool.

2. FORMAT

RCV:MENU:IREX;

3. EXPLANATION OF MESSAGE

No variables.

4. SYSTEM RESPONSE

PFF = Printout follows. The request has been received. The user is put into the IREX session. A completion message follows when the session is terminated.

5. REFERENCES

None.
RCV:M-KEYCMP

Software Release: 5E14 and later
Command Group: SPECRCV
Application: 5,3B
Type: Input

1. PURPOSE

Compares of two sorted keyfiles. The comparison consists of three files: keys only in file a, keys only in file b, and keys in file a and file b.

2. FORMAT

RCV:MENU,KEYCMP,KFILE1="a",KFILE2="b",STDOUT="c",STDERR="d";

3. EXPLANATION OF MESSAGE

a = Pathname of the first keyfile.
b = Pathname of the second keyfile.
c = Pathname of the file for redirection of standard output.
d = Pathname of the file for redirection of standard error.

4. SYSTEM RESPONSE

PF = Printout follows. Followed by RCV:MENU output message.

5. REFERENCES

Input Message(s):

RCV:M-BROWSE
RCV:M-COMPREDB
RCV:M-CREATEECD
RCV:M-CREATESG
RCV:M-EVOL
RCV:M-FDIFF
RCV:M-KEYCOMM
RCV:M-KEYS
RCV:M-LOADF3B
RCV:M-NEWDB
RCV:M-PRINTDB
RCV:M-PRINTFRM
RCV:M-RCVECD
RCV:M-RCVSG
RCV:M-TRANSGEN
RCV:M-TREEBLD
RCV:M-VFYDFLT
Output Message(s):

RCV : MENU
1. PURPOSE

Creates, on the standard output, a list of all keys that are common to two sorted keyfiles. If the output from this input message is directed to a file, the file may be used as input to RCV:M-PRINTFRM.

2. FORMAT

```plaintext
RCV:MENU,KEYCOMM,KFILE1="a",KFILE2="b" [,STDOUT="c"]
[,STDERR="d"];
```

3. EXPLANATION OF MESSAGE

- `a` = Pathname of the first keyfile.
- `b` = Pathname of the second keyfile.
- `c` = Pathname of the file for redirection of standard output.
- `d` = Pathname of the file for redirection of standard error.

4. SYSTEM RESPONSE

`PF` = Printout follows. Followed by RCV:MENU output message.

5. REFERENCES

Input Message(s):

- RCV:M-BROWSE
- RCV:M-COMPAR Db
- RCV:M-CREATE ECD
- RCV:M-CREATE SG
- RCV:M-EVOL
- RCV:M-FDIFF
- RCV:M-KEYCMP
- RCV:M-KEYS
- RCV:M-LOADF3B
- RCV:M-NEWDB
- RCV:M-PRINTDB
- RCV:M-PRINTFRM
- RCV:M-RCVECD
- RCV:M-RCVSG
- RCV:M-TRANS GEN
- RCV:M-TREEBLD
- RCV:M-VFYDF LT
Output Message(s):

RCV : MENU
RCV:M-KEYS

Software Release: 5E14 and later
Command Group: SPECRCV
Application: 5,3B
Type: Input

1. PURPOSE

Creates a sorted list of form keys for all the instances of a given form type found in the equipment configuration database (ECD) and the system generation (SG) database.

2. FORMAT

RCV:MENU, KEYS, RCV="a", [MASKS="b",] DB="c", FORM="d", KFILE="e" [, STDERR="f"];

3. EXPLANATION OF MESSAGE

a = Name of the recent change and verify (RC/V) program (rcvecd or rcvsg).
b = Pathname of the directory containing the mask files used by RC/V. Default=/lla/ecdmasks or /lla/sgmasks.
c = Name of the database to be processed. Valid value(s):
broot = Backup (/broot) full-configuration database (valid only if backup file system is mounted).
brootdmly = Backup (/broot) minimum-configuration database (valid only if backup file system is mounted).
incore = In-core copy.
root = Root copy of full-configuration database.
rootdmly = Root copy of minimum-configuration database.
blank = The pathname of a database file.
Note: Any database name used in the RCV:M-CREATEECD or RCV:M-CREATESG input message may be used here.
d = Form type associated with the desired keys. Valid form types are listed in the Recent Change and Verify User’s Guide.
e = Pathname of the file name to be used for listing the desired keys.
f = Pathname of the file for redirection of standard error.

4. SYSTEM RESPONSE

PF = Printout follows. Followed by RCV:MENU output message.

5. REFERENCES

Input Message(s):
RCV:M-BROWSE
RCV:M-COMPAREDB
RCV:M-CREATEECD
RCV:M-CREATESG
RCV:M-EVOL
RCV:M-FDIFF
RCV:M-KEYCMP
RCV:M-KEYCOMM
RCV:M-LOADF3B
RCV:M-NEWDB
RCV:M-PRINTDB
RCV:M-PRINTFRM
RCV:M-RCVECD
RCV:M-RCVSG
RCV:M-TRANSGEN
RCV:M-TREEBLD
RCV:M-VFYDFLT

Output Message(s):

RCV:MENU

Other Manual(s):
235-600-30x  ECD/SG Data Base
RCV:M-LOADF3B

Software Release: 5E14 and later
Command Group: SPECRCV
Application: 5,3B
Type: Input

1. PURPOSE

Invokes a specified recent change activity. This format is used to create a database in loadfile format from a set of database files.

2. FORMAT

RCV:MENU,LOADF3B,DB="a"&b,LF="c"&d[&"e"] [,STDERR="f"];

3. EXPLANATION OF MESSAGE

a = Full root pathname of the equipment configuration database (ECD) (for example, /tmp/dmert.ecd). This is the file from which the loadfile will be generated.
   Note: Any database name used in the RCV:M-CREATEECD input message may be used here.

b = Page size of 'a', specified as the number of bytes, in decimal notation.

c = Pathname of the loadfile, which contains the load image of the database.

d = Virtual address where the loadfile is to be loaded, in decimal notation.

e = Optional argument used to specify the number of bytes (in decimal) to be built into 'c' for growth. All instances of 'e' should be in multiples of the page size 'b'. The default for this argument will be the size of any free space within the current segment.

f = Pathname of the file for redirection of standard error.

4. SYSTEM RESPONSE

OK = Good. Requested action initiated and completed.

PF = Printout follows. Followed by RCV:MENU output message.

5. REFERENCES

Input Message(s):

RCV:M-BROWSE
RCV:M-COMPAREDB
RCV:M-CREATEECD
RCV:M-CREATESG
RCV:M-EVOL
RCV:M-FDIFF
RCV:M-KEYCMP
RCV:M-NEWDB

Software Release: 5E14 and later
Command Group: SPECRCV
Application: 5,3B
Type: Input

1. PURPOSE

Creates a sorted list of keys for all form types in the equipment configuration database (ECD) and the system generation (SG) database. A sorted key file for each form type is written in d/keys/formtype where "d" is the argument that is entered with the OUTDIR keyword and "formtype" is the name of the form type. This message creates key lists for all data form types, that is all form types listed by klist of recent change and verify (RC/V).

2. FORMAT

RCV:MENU,NEWDB,RCV="a",MASKS="b",DB="c",OUTDIR="d"[,STDERR="e"]; 

3. EXPLANATION OF MESSAGE

a  = Name of the recent change and verify (RC/V) program (rcvecd or rcvsg).
b  = Pathname of the directory containing the mask files used by RC/V. Default= /lla/ecd_masks or /lla/sg_masks.
c  = Name of the database to be processed. Valid value(s):
broot  = Backup (/broot) full-configuration database (valid only if backup file system is mounted).
brootdmly = Backup (/broot) minimum-configuration database (valid only if backup file system is mounted).
inecore = In-core copy.
root    = Root copy of full-configuration database.
rootdmly = Root copy of minimum-configuration database.
  = The pathname of a database file.

Note: Any database name used in the RCV:M-CREATEECD or RCV:M-CREATESG input message may be used here.

d  = Pathname of the output directory where keylist files will be placed. This directory will be created if it does not exist.
e  = Pathname of the file for redirection of standard error.

4. SYSTEM RESPONSE

PF  = Printout follows. Followed by RCV:MENU output message.

5. REFERENCES

Input Message(s):
RCV:M-BROWSE
RCV:M-COMPAREDB
RCV:M-CREATEECD
RCV:M-CREATESG
RCV:M-EVOL
RCV:M-FDIFF
RCV:M-KEYCMP
RCV:M-KEYCOMM
RCV:M-KEYS
RCV:M-LOADF3B
RCV:M-PRINTDB
RCV:M-PRINTFRM
RCV:M-RCVECD
RCV:M-RCVECD
RCV:M-TRANSGEN
RCV:M-TREEBLD
RCV:M-VFYDFLT

Output Message(s):

RCV:MENU
RCV:M-ODBE

Software Release: 5E14 and later
Command Group: SPECRCV
Application: 5
Type: Input

1. PURPOSE
Requests that the office database editor tool (ODBE) be run.

2. FORMAT
RCV:MENU:ODBE;

3. EXPLANATION OF MESSAGE
No variables.

4. SYSTEM RESPONSE

PF = Printout follows. The request has been received. The user will now be put into the ODBE session. A completion message will follow when the session is terminated.

5. REFERENCES
Other Manual(s):
235-105-110 System Maintenance Requirements and Tools
235-105-210 Routine Operations and Maintenance
235-105-220 Corrective Maintenance
235-600-100 Translations Data
RCV:M-PRINTDB

Software Release: 5E14 and later
Command Group: SPECRCV
Application: 5,3B
Type: Input

1. PURPOSE

Creates files of form instances when specified data form type(s) from the equipment configuration database (ECD) and the system generation (SG) database are given. The keyfile for “formtype” is found in d/keys/formtype, and the file of the form instances is created in d/print/formtype, where "d" is the argument that is entered with the OUTDIR keyword and “formtype” is a file name corresponding to the type of form to be printed.

2. FORMAT

RCV:MENU,PRINTDB,RCV="a",[MASKS="b",]DB="c",OUTDIR="d"
[,FORM="e"][,STDERR="f"];

3. EXPLANATION OF MESSAGE

a = Name of the recent change and verify (RC/V) program (rcvecd or rcvsg).
b = Pathname of the directory containing the mask files used by RC/V. Default= /lla/ecdmasks or /lla/sgmasks.
c = Name of the database to be processed. Valid value(s):
   broot = Backup (/broot) full-configuration database (valid only if backup file system is mounted).
   brootdmly = Backup (/broot) minimum-configuration database (valid only if backup file system is mounted).
   incore = In-core copy.
   root = Root copy of full-configuration database.
   rootdmly = Root copy of minimum-configuration database.

   = The pathname of a database file.

   Note: Any database name used in the RCV:M-CREATEECD or RCV:M-CREATESG input message may be used here.

d = Pathname of the output directory.
e = Form type or types that are to be printed. Up to 20 may be entered. Valid form types are listed in the Recent Change and Verify User’s Guide. Default is all data form types listed by klist in RC/V.

f = File for redirection of standard error.

4. SYSTEM RESPONSE

PF = Printout follows. Followed by the RCV:MENU output message.

5. REFERENCES
Input Message(s):

RCV:M-BROWSE
RCV:M-COMPAREDB
RCV:M-CREATEECD
RCV:M-CREATESG
RCV:M-EVOL
RCV:M-FDIFF
RCV:M-KEYCMP
RCV:M-KEYCOMM
RCV:M-KEYS
RCV:M-LOADF3B
RCV:M-NEWDB
RCV:M-PRINTFRM
RCV:M-RCVECD
RCV:M-RCVSG
RCV:M-TRANSGEN
RCV:M-TREEBLD
RCV:M-VFYDFLT

Output Message(s):

RCV:MENU

Other Manual(s):
235-600-30x  ECD/SG Data Base
RCV:M-PRINTFRM

Software Release: 5E14 and later
Command Group: SPECRCV
Application: 5,3B
Type: Input

1. PURPOSE

Creates a file of all form instances, given a list of form keys, found in the equipment configuration database (ECD) and the system generation (SG) database.

2. FORMAT

RCV:MENU, PRINTFRM, RCV="a", [MASKS="b",] DB="c", KFILE="d", PFILE="e", [STDERR="f"]

3. EXPLANATION OF MESSAGE

a = Name of the recent change and verify (RC/V) program (rcvecd or rcvsg).
b = Pathname of the directory containing the mask files used by RC/V. Default= /lla/ecdmasks or /lla/sgmasks.
c = Name of the database to be processed. May be one of the following:
   broot = Backup (/broot) full-configuration database (valid only if backup file system is mounted).
   brootdmly = Backup (/broot) minimum-configuration database (valid only if backup file system is mounted).
   incore = In-core copy.
   root = Root copy of full-configuration database.
   rootdmly = Root copy of minimum-configuration database.
   or the pathname of a database file.
   Note: Any database name used in the RCV:M-CREATEECD or RCV:M-CREATESG input message may be used here.
d = Pathname of the file that contains the list of form keys.
e = Pathname of the file to contain printed form instances.
f = Pathname of the file for redirection of standard error.

4. SYSTEM RESPONSE

PF = Printout follows. Followed by the RCV:MENU output message.

5. REFERENCES

Input Message(s):
RCV:M-BROWSE
RCV:M-COMPAREDB
RCV:M-CREATEECD
RCV:M-CREATESG
RCV:M-EVOL
RCV:M-FDIFF
RCV:M-KEYCMP
RCV:M-KEYCOMM
RCV:M-KEYS
RCV:M-LOADF3B
RCV:M-NEWDB
RCV:M-PRINTDB
RCV:M-RCVECD
RCV:M-RCVSG
RCV:M-TRANSGEN
RCV:M-TREEBLD
RCV:M-VFYDFLT

Output Message(s):

RCV:MENU
RCV:M-RCVECD

Software Release: 5E14 and later
Command Group: SPECRCV
Application: 5,3B
Type: Input

1. PURPOSE

Reviews or modifies an equipment configuration database (ECD) through recent change (RC). This message is supported from the maintenance teletypewriter (MTTY) only if both STDIN and STDOUT are redirected. This message is not supported over the Switching Control Center (SCC) link.

2. FORMAT

RCV:MENU,RCVECD[,DB="a"] [,DBF="a"] [,TERM=b] [,MASKS="c"] [,DEFAULTS="d"] [,PRINT="e"] [,ECHO="f"] [,g] [,h] [,i] [,j] [,k] [,l] [,STDIN="m"] [,STDOUT="n"] [,STDERR="o"] ;

3. EXPLANATION OF MESSAGE

DB
= The ECD to be processed is not in loadfile format.

DBF
= The ECD to be processed is in loadfile format.

a
= Name of the database to process. May be the pathname of a database file, or:
broot
= Backup (/broot) full-configuration database (valid only if backup file system is mounted).
brootdmly
= Backup (/broot) minimum-configuration database (valid only if backup file system is mounted).
incore
= In-core copy.
root
= Root copy of full-configuration database.
rootdmly
= Root copy of minimum-configuration database.

Note: Any database name used in the RCV:M-CREATEECD input message may be used here.

b
= Terminal type on which forms are to be displayed. Valid types= VT100, VT52, ADM3A, ADM42, HP2621, GNAT, and DUMB. The default is VT100.

If VT100 is selected, the internal terminal setup options must be correctly initialized. Critical values for On Line Data Integrity System (ODIN) are contained in the fourth grouping, which must be 1010. To check the options, press the setup key, then '5'. To change the options, use the left cursor key to tab to the desired flag, then use '6' to toggle its value. Pressing the setup key returns the terminal to the normal mode of operation.

c
= Pathname of the directory containing the mask description files. The default is /lla/ecdmasks.

d
= Pathname of the directory containing the low level mask default files. The default is /lla/defaults.

e
= Pathname of the file to be used for writing form instances. This option is independent of JOURNAL.

f
= Pathname of the file to which the set of key strokes executed during the course of the RC/V session is sent. This file may be reapplied in a later RC/V session as batch input.
g = HELP/NHELP option. Valid value(s):
HELP = Enable help messages at the bottom of the screen (default).
NHELP = Disables help messages.

h = REVIEW/NREVIEW option. Valid value(s):
REVIEW = Allow only review requests (and disallow insert, delete, and update requests). (default)
NREVIEW = Allow insert, delete, and update requests.

i = JOURNAL/NJOURNAL option. Valid value(s):
JOURNAL = Print all forms from insert, delete, and update requests to /etc/rcvecd.jrn[0,1]. (default)
NJOURNAL = Do not print forms from insert, delete, or update requests to /etc/rcvecd.jrn[0,1].

j = HLMODE/NHLMODE option. Valid value(s):
HLMODE = Enable high level functionality.
NHLMODE = Disables high level functionality (default).

k = SYSGEN/NSYSGEN option. Valid value(s):
SYSGEN = Enable the system generation mode of operation. This should only be used when executing a dbload or database evolution because the changes are written into the database as applied rather than at the end of the transaction block.
NSYSGEN = Disable the system generation mode of operation. Changes are not applied to the database until the end of the transaction block.

l = PRCMSG/NPRCMSG option. Valid value(s):
PRCMSG = Enable ODIN to print processing messages in the upper right-hand corner of the CRT screen. (default)
NPRCMSG = Disable processing messages.

m = Pathname of the file for redirection of standard input.

n = Pathname of the file for redirection of standard output.

o = Pathname of the file for redirection of standard error.
Note: The error file for this input message is /etc/rcvecd.err.

4. SYSTEM RESPONSE

PF = Printout follows. Followed by RCV:MENU output message.

5. REFERENCES

Input Message(s):
RCV:DMTECD-RC
RCV:DMTECD-VFY
RCV:DMTSG-RC
RCV:DMTSG-VFY
RCV:M-BROWSE
RCV:M-COMPAREDB
RCV:M-CREATEECD
RCV:M-CREATESG
RCV:M-EVOL
RCV:M-FDIFF
RCV:M-KEYCMP
RCV:M-KEYCOMM
RCV:M-KEYS
RCV:M-LOADF3B
RCV:M-NEWDB
RCV:M-PRINTDB
RCV:M-PRINTFRM
RCV:M-RCVSG
RCV:M-TRANSGEN
RCV:M-TREEBLD
RCV:M-VFYDFLT

Output Message(s):

RCV:MENU

Other Manual(s):

Where 'x' is the release-specific version of the document.

235-600-30x ECD/SG Data Base

MCC Display Page(s):

199 (ECD/RCV)
RCV:M-RCVSG

Software Release: 5E14 and later
Command Group: SPECRCV
Application: 5,3B
Type: Input

1. PURPOSE

Reviews or modifies a system generation (SG) database through recent change (RC). This message is supported from the maintenance teletypewriter (MTTY) only if both STDIN and STDOUT are redirected. This message is not supported over the Switching Control Center (SCC) link.

2. FORMAT

RCV:MENU, RCVSG[, DB="a"] [, TERM=b] [, MASKS="c"] [, PRINT="d"] [, ECHO="e"]
[ , f ] [ , g ] [ , h ] [ , i ] [ , j ] [ , STDIN="k"] [ , STDOUT="l"] [ , STDERR="m"] ;

3. EXPLANATION OF MESSAGE

a = Name of the SG database to be processed. May be the pathname of a database file, or:
broot = Backup (/broot) full-configuration database (valid only if backup is mounted).
brootdmly = Backup (/broot) minimum-configuration database (valid only if backup is mounted).
root = Root copy of full-configuration database.
rootdmly = Root copy of minimum-configuration database.
Note: Any database name used in the RCV:M-CREATESG input message may be used here.

b = Terminal type on which forms are to be displayed. Valid types are VT100, VT52, ADM3A, ADM42, HP2621, GNAT, and DUMB. The default is VT100.

If VT100 is selected, the internal terminal setup options must be correctly initialized. Critical values for On Line Data Integrity System (ODIN) are contained in the fourth grouping, which must be 1010. To check the options, press the setup key, then '5'. To change the options, use the left cursor key to tab to the desired flag, then use '6' to toggle its value. Pressing the setup key returns the terminal to the normal mode of operation.

c = Pathname of the directory containing the mask description files. The default is /lla/sgmasks.

d = Pathname of the file to be used for writing form instances. This option is independent of JOURNAL.

e = Pathname of the file to which the set of key strokes executed during the course of the RC/V session is sent. This file may be reapplied in a later RC/V session as batch input.

f = HELP/NHELP option. Valid value(s):
HELP = Enable help messages at the bottom of the screen (default).
NHELP = Disables help messages.

g = REVIEW/NREVIEW option. Valid value(s):
REVIEW = Allow only review requests (and disallow insert, delete, and update requests)
NREVIEW  = Allow insert, delete, and update requests.

h  = JOURNAL/NJOURNAL option. Valid value(s):
  JOURNAL   = Print all forms from insert, delete, and update requests to /etc/rcvsg.jrnl[0,1] (default).
  NJOURNAL  = Do not print forms from insert, delete, or update requests to /etc/rcvsg.jrnl[0,1].

i  = SYSGEN/NSYSGEN option. Valid value(s):
  SYSGEN    = Enable the system generation mode of operation. This should only be used when executing a dbload or database evolution because the changes are written into the database as applied rather than at the end of the transaction block.
  NSYSGEN   = Disable the system generation mode of operation. Changes are not applied to the database until the end of the transaction block (default).

j  = PRCMSG/NPRCMSG option.
  PRCMSG    = Enables ODIN to print processing messages in the upper right-hand corner of the CRT screen (default).
  NPRCMSG   = Disables processing messages.

k  = Pathname of the file for redirection of standard input.

l  = Pathname of the file for redirection of standard output.

m  = Pathname of the file for redirection of standard error.  
    Note: The error file for this message is /etc/rcvsg.err.

4. SYSTEM RESPONSE

   PF  = Printout follows. Followed by RCV:MENU output message.

5. REFERENCES

Input Message(s):

   RCV:DMTECD-RC
   RCV:DMTECD-VFY
   RCV:DMTSG-RC
   RCV:DMTSG-VFY
   RCV:M-BROWSE
   RCV:M-COMPAREDB
   RCV:M-CREATEECD
   RCV:M-CREATESG
   RCV:M-EVOL
   RCV:M-FDIFF
   RCV:M-KEYCMP
   RCV:M-KEYCOMM
   RCV:M-KEYS
RCV:M-LOADF3B
RCV:M-NEWDB
RCV:M-PRINTDB
RCV:M-PRINTFRM
RCV:M-RCVECD
RCV:M-TRANSGEN
RCV:M-TREEBLD
RCV:M-VFYDFLT

Output Message(s):

RCV: MENU

Other Manual(s):
235-600-30x   *ECD/SG Data Base*

MCC Display Page(s):

198 (SG/RCV)
RCV:M-RDLDFT
Software Release: 5E14 and later
Command Group: FHADM
Application: 5
Type: Input

1. PURPOSE
Requests that tape data of either smtext (text code that resides on switching modules (SMs)) or SM office-dependent data (SMODD) be read in to a disk or a pair of disks other than the primary disk pair.

2. FORMAT
RCV:MENU:RDLDFT;

3. EXPLANATION OF MESSAGE
No variables.

4. SYSTEM RESPONSE
OK = Interactive questions on tape content (smtext or smodd), tape drive and volume table of contents (VTOC); only for smodd) will appear on the requesting terminal.

5. REFERENCES
Other Manual(s):
235-105-250 System Recovery Procedures
RCV:M-RTAG

Software Release: 5E14 and later
Command Group: MAINT
Application: 5
Type: Input

1. PURPOSE
Requests that the automated pack return tag (RTAG) tool be run.

2. FORMAT
RCV:MENU:RTAG;

3. EXPLANATION OF MESSAGE
No variables.

4. SYSTEM RESPONSE
PF = Printout follows. The request has been received. The user is put into the RTAG session. A completion message follows when the session is terminated.

5. REFERENCES
Input Message(s):

RCV:M-SCREEN

Other Manual(s):

Where 'x' is the release-specific version of the document.

235-105-220 Corrective Maintenance
235-900-304 Operations System Interface
RCV:M-SCREEN

Software Release: 5E14 and later
Command Group: SPECRCV
Application: 5
Type: Input

1. PURPOSE

Runs the 5ESS® switch screen program that allows the office user to run the UNIX® shell, office-dependent data (ODD) database editor (ODBE) and common network interface data base operation consolidator (CNIDBOC), access editor (ACCED) and circuit return tag tool (RTAG) from a recent change and verify (RC/V) terminal, with page-at-a-time output.

2. FORMAT

RCV:MENU:SCREEN;

3. EXPLANATION OF MESSAGE

No variables.

4. SYSTEM RESPONSE

PF = Printout follows. The request has been received. The system will attempt to run the screen process. A REPT:SCREEN output message will follow when the session is completed.

5. REFERENCES

Output Message(s):

REPT:SCREEN

Other Manual(s):
235-105-110 System Maintenance Requirements and Tools
RCV:M-SH

Software Release: 5E14 and later
Command Group: SPECRCV
Application: 5
Type: Input

1. PURPOSE

Requests an escape to the shell (enter cntl-d to return).

2. FORMAT

RCV:MENU,SH;

3. EXPLANATION OF MESSAGE

No variables.

4. SYSTEM RESPONSE

PF = Printout follows. Followed by the shell prompt "#" when entering the shell and "RCV MENU SH COMPLETED" when exiting the shell.

5. REFERENCES

Other Manual(s):
235-700-200 UNIX® System Reference
RCV:M-TRANSGEN
Software Release: 5E14 and later
Command Group: SPECRCV
Application: 5,3B
Type: Input

1. PURPOSE
Invokes a specified recent change activity; this format is used to create a translation database when a tree address space and translation specifications are given. The database is input to Data Base Management System Evolution System (EVOL).

2. FORMAT
RCV:MENU,TRANSGEN,IN="a",TRANS="b" [,HOOK="c"] [,DB="d"]
[ ,TREE="e"] [,ECHO="f"] [,STDERR="g"];  

3. EXPLANATION OF MESSAGE
a  = Pathname of the input file that contains the software demand paging (SDP) address space that describes old and new form specifications; constructed by TREEBLD and input to TRANSGEN.
b  = Pathname of the file containing the translation specifications.
c  = Pathname of the file of C structures to be produced by TRANSGEN and used by EVOL to invoke semantic hooks.
d  = Pathname of the translation data base.
e  = Pathname of the file that will contain a human-readable dump of 'a' after being modified by TRANSGEN.
f  = Pathname of the file that contains echo output of input specifications.
g  = Pathname of the file for redirection of standard error.

4. SYSTEM RESPONSE
PF = Printout follows. Followed by the RCV:MENU output message.

5. REFERENCES
Input Message(s):
RCV:M-BROWSE
RCV:M-COMPARDB
RCV:M-CREATEECD
RCV:M-CREATESG
RCV:M-EVOL
RCV:M-FDIFF
RCV:M-KEYCMP
RCV:M-KEYCOMM
RCV:M-KEYS
RCV:M-LOADF3B
RCV:M-NEWDB
RCV:M-PRINTDB
RCV:M-PRINTFRM
RCV:M-RCVECD
RCV:M-RCVSG
RCV:M-TREEBLD
RCV:M-VFYDFLT

Output Message(s):

RCV:MENU
RCV:M-TREEBLD

Software Release: 5E14 and later
Command Group: SPECRECV
Application: 5,3B
Type: Input

1. PURPOSE

Invokes a specified recent change activity; this format is used to build a tree address space given the old and new form specifications. The tree is input to TRANSGEN.

2. FORMAT

RCV:MENU,TREEBLD,OLD="a",NEW="b",OUT="c" [,TREE="d"]
[,] [,ECHO="e"] [,STDIN="f"] [,STDOUT="g"] [,STDERR="h"];

3. EXPLANATION OF MESSAGE

a = Pathname of the file that contains old domain and form specifications.
b = Pathname of the file that contains new domain and form specifications.
c = Pathname of the output file that will contain the software demand paging (SDP) address space that describes old and new form specifications; constructed by TREEBLD and input to TRANSGEN.
d = Pathname of the file that contains a human-readable dump of ‘c’.
e = Pathname of the file that contains echo output of input specifications.
f = Pathname of the file for redirection of standard input.
g = Pathname of the file for redirection of standard output.
h = Pathname of the file for redirection of standard error.

4. SYSTEM RESPONSE

PF = Printout follows. Followed by the RCV:MENU output message.

5. REFERENCES

Input Message(s):

RCV:M-BROWSE
RCV:M-CREATEECD
RCV:M-CREATESG
RCV:M-EVOL
RCV:M-LOADF3B
RCV:M-RCVECD
RCV:M-RCVSG
RCV:M-TRANSGEN
RCV:M-VFYDFLT
Output Message(s):

RCV : MENU
RCV:M-VFYDFLT

Software Release: 5E14 and later
Command Group: SPECRCV
Application: 5,3B
Type: Input

1. PURPOSE

Checks the syntax of the specified default file (corresponding to the low level recent change and verify (RC/V) equipment configuration data base (ECD) form of the same name), and verifies the low level field names and values contained therein are legal for that low level form.

2. FORMAT

RCV:MENU,VFYDFLT, EFILE="a" ,DFILE="b" [,MDIR="c"] [,DDIR="d"] [,STDERR="e"];

3. EXPLANATION OF MESSAGE

\( a \) = Pathname of the file to which all error messages will be written.
\( b \) = Name of the default file to be verified. This must correspond to the name of a RC/V ECD low level mask.
\( c \) = Directory in which the RC/V ECD masks are located. This is defaulted to /lla/ecdmasks.
\( d \) = Directory in which default file is located. This is defaulted to /lla/defaults.
\( e \) = Pathname of the file for re-direction of standard error.

4. SYSTEM RESPONSE

OK = Good. Requested action initiated and completed.
PF = Printout follows. Followed by an RCV:MENU output message.

5. REFERENCES

Input Message(s):

RCV:M–RCVECD

Output Message(s):

RCV:MENU
RCV:M-VFYTXT

Software Release: 5E14 and later
Command Group: FHADM
Application: 5
Type: Input

1. PURPOSE
Requests that administrative module (AM) tape and disk backups be verified as usable.

2. FORMAT
RCV:MENU:VFYTXT;

3. EXPLANATION OF MESSAGE
No variables.

4. SYSTEM RESPONSE

PF = The system will respond with menus asking the user for input. The explanation of these menus and the procedure is documented in detail in the Routine Operations and Maintenance manual (235-105-210), Section 5, Procedure 44 and 45.

5. REFERENCES
Output Message(s):

RCV:MENU-VFYTXT

Other Manual(s):
235-105-210 Routine Operations and Maintenance
63. REKEY
REKEY:SLK

Software Release: 5E14 and later
Command Group: CCS
Application: 5
Type: Input

1. PURPOSE
Requests that a change be made to a new key on an encrypted signaling link (SLK).
This message results in a long key exchange on the specified link the next time the link is resynchronized.

2. FORMAT
REKEY:SLK=a-b;

3. EXPLANATION OF MESSAGE
   a = Group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
   b = Member number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE
   PF = Printout follows.

5. REFERENCES
Output Message(s):
   REKEY:SLK

Input Appendix(es):
   APP:RANGES
64. REPT
REPT:GRC

Software Release: 5E14 and later
Command Group: RCV
Application: 5
Type: Input

1. PURPOSE

Requests that a report of the global recent change (GRC) activity be printed. The NAME field refers to the name of a GRC job. If NAME is not entered, the schedule for all GRC jobs will be displayed. If NAME is entered, a more detailed status of the named job will be reported.

If a named GRC job has been split into sections, the section number MUST be provided using the SECT input message line option. When BATCH is specified, a list of all time-released batch jobs will print. When HISTORY is specified, a history of all input messages executed for all GRC jobs will be printed unless a GRC NAME is specified. When UPDSPEC is specified, a list of the updates defined for all GRC jobs will be printed unless a GRC NAME is specified. When QUERY is specified, the query criteria for all GRC jobs will be printed unless a GRC NAME is specified.

2. FORMAT

REPT:GRC[,NAME=a[,SECT=b]][,DEVICE="c"][,BATCH][,HISTORY][,UPDSPEC][,QUERY];

3. EXPLANATION OF MESSAGE

BATCH = Report the current list of recent change/verify (RC/V) batch jobs scheduled.
HISTORY = Report the history of input messages executed on this GRC name.
QUERY = List the criteria specified for this GRC name.
UPDSPEC = List updates specified for this GRC name.
a = GRC name (up to 10 characters).
b = GRC section number.
c = Destination device or file for the report. The device or file name is input as a character string and must be enclosed with double quotation marks. If the input string is prefixed by a slash (/), the destination will be taken as the name of a file. The length of the file name must not exceed 30 characters. If the device name does not start with a slash (/), it must correspond to an output device defined in a "device" record in the equipment configuration database (ECD). The default destination is the name of the default tty device obtained from the environment variable LCHAN.

4. SYSTEM RESPONSE

PF = Printout follows. Followed by a REPT:GRC output message.
NG = No good. The request was denied. A GRC:ERROR output message will provide the reason for failure.
5. REFERENCES

Input Message(s):

   EXC: GRCPASSWORD

Output Message(s):

   GRC: ERROR
   REPT: GRC

Other Manual(s):

Where 'x' is the release-specific version of the document.

235-070-100  Administration and Engineering Guidelines
235-118-251  Recent Change Procedures
235-118-25x  Recent Change Reference
REPT:PLNTHR

Software Release: 5E14 and later
Command Group: N/A
Application: 5
Type: Input

1. PURPOSE

Requests the status (inhibited or allowed) of the hourly plant report.

2. FORMAT

REPT:PLNTHR;

3. EXPLANATION OF MESSAGE

No variables.

4. SYSTEM RESPONSE

PF = Printout follows. Followed by an OP:PLNTHR output message.

5. REFERENCES

Input Message(s):

ALW:PLNTHR
INH:PLNTHR
OP:PLNTHR

Output Message(s):

OP:PLNTHR-PT01A
OP:PLNTHR-PT01B
OP:PLNTHR-PT02A
OP:PLNTHR-PT02B
OP:PLNTHR-PT03

Other Manual(s):
235-070-100 Administration and Engineering Guidelines
REPT:RCHIST

Software Release: 5E14 and later
Command Group: RCV
Application: 5
Type: Input

1. PURPOSE

Requests an RC batch history of recent changes (RCs) entered into the RC batch delayed-release clerk files. The RC batch delayed-release clerk files are commonly known as RC batch clerk files.

Format 1 outputs the activity of all RCs in the RC batch clerk files. This report has a one-line synopsis, showing the total RCs per status (pending, demand, complete and error) for each RC batch clerk file in the system. This report is commonly used during a retrofit when the evolved RCs are being reapplied to the new software release's office-dependent data (ODD). The reapplication time is lengthy and this report gives the status on the number successful, failed and demand RCs. Format 2 outputs the RC batch history of the selected RCs in the specified RC batch clerk file. The summary RC batch history report displays the information stored in the RC batch header such as view name, status, operation and key data. The detail RC batch history reports displays the RC batch history summary report and the entire RC in view format. This report is commonly used during a retrofit when the evolved RCs are being reapplied to the new software release ODD. When reported on failed RCs it displays the error messages and the view.

2. FORMAT

[1] REPT:RCHIST,ACTIVITY;

[2] REPT:RCHIST,CLERK=a[,FORMAT={SUMMARY|DETAIL}]
\{,ALL|,b\}[,DEST={c|FILE}][,TIME=d-e];

3. EXPLANATION OF MESSAGE

ALL = Report all RCs. RCs selected could be pending, completed, error, or demand.

DETAIL = For each record selected for the report, format entire RC record.
Note: The defaults for selection parameters are COMPLETE and ERROR. These are set when none of the following selection parameters are specified.

FILE = Writes the report to a file. If the clerk name is RCNEW the file is in /updtmp/HIST.RCNEW. Otherwise the report is in the file /rclog/HIST.<clerk name>.

SUMMARY = For each record selected for the report, format by key only.

a = Clerk name.

b = Valid value(s):
COMPLETE = Report released RCs that were successfully completed.
DEMAND = Report demand RCs.
ERROR = Report released RCs that failed.
PENDING = Report pending RCs.

C = Name of printer to which reports are to be routed. Default is receive-only printer (ROP).

d-e = The range of times between which records are selected. The time fields are specified in month...
(01-12), day (01-31), year (last two digits of calendar year), hour (00-23), and minute (00-59), format, with no separators. Leading zeros must be specified. The first time field must specify a time earlier than the second time field. Thus, choosing 0101000000 as the first time field and 1231992300 as the second time field would select all records and this time (selecting all records) is the default when no time is specified.

4. SYSTEM RESPONSE

PF = Printout follows. The request was accepted. Followed by an REPT:RCHIST output message.

5. REFERENCES

Input Message(s):

OP:RCHIST
STP:RCHIST

Output Message(s):

OP:RCHIST
REPT:RCHIST
STP:RCHIST

Other Manual(s):

Where 'x' is the release-specific version of the document.

235-118-22x Recent Change Procedures Batch Release
1. PURPOSE

Requests a status report of all signaling link (SLK) inhibit alarm flags set (ON). All signaling links whose inhibit alarm flag is set will appear in the output message.

2. FORMAT

REPT:SLK:INHALM;

3. EXPLANATION OF MESSAGE

No variables.

4. SYSTEM RESPONSE

PF = Printout follows.

5. REFERENCES

Input Message(s):

INH:SLK

Output Message(s):

REPT:SLK-INHALM
REPT:SPACE

Software Release: 5E14 and later
Command Group: FHADM
Application: 5
Type: Input

1. PURPOSE

Requests a report indicating the space available in the specified file system be generated.

2. FORMAT

REPT:SPACE,FS="a";

3. EXPLANATION OF MESSAGE

a = Name of the directory where the file system is mounted.

4. SYSTEM RESPONSE

PF = Printout follows. The REPT:SPACE output message will follow.

NG = No good. The request was denied. A GRC:ERROR output message will provide the reason for the failure.

5. REFERENCES

Output Message(s):

REPT:SPACE
GRC:ERROR

Other Manual(s):

Where 'x' is the release-specific version of the document.

235-070-100 Administration and Engineering Guidelines
235-118-251 Recent Change Procedures
235-118-25x Recent Change Reference
65. RLS
1. PURPOSE

Requests the release (unlocking) of the port processor's (PP's) postmortem report save area of the specified module controller time slot interchanger (MCTSI) to allow the capture of the next autonomous packet switching unit protocol handler (PSUPH) or packet interface (PI) initialization postmortem reports.

If the postmortem save area is not released manually by this input message, it will be released automatically after holding the last postmortem report for 72 hours.

2. FORMAT

RLS:POSTMORT,PP,MCTSI=a-b;

3. EXPLANATION OF MESSAGE

a = Switching module (SM) number.

b = MCTSI side number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

NG = No good. The message was not accepted because the SM is isolated or the MCTSI is out of service.

NO = Feature not available. The requested action failed because the feature required to process the request is not present in the module.

OK = Good. The message was accepted and the release of the postmortem reports has been completed.

5. REFERENCES

Input Message(s):

CHG:PRNTMODE
OP:HISTORY
OP:PM-PP-MCTSI

Input Appendix(es):

APP:RANGES
RLS:PM-SM

Software Release: 5E14 and later
Command Group: SYSRCVY
Application: 5
Type: Input

1. PURPOSE

Releases the postmortem save area. Once the postmortem has been printed, it is necessary to release (unlock) the postmortem save area so that the next postmortem can be saved on a subsequent recovery.

If the postmortem save area is not released manually by this input message, it will be released automatically 1 hour following the high level initialization. Releasing the postmortem will suppress the 5 minute automatic dump.

2. FORMAT

RLS:POSTMORT, SM=a;

3. EXPLANATION OF MESSAGE

a = Switching module (SM) number.

4. SYSTEM RESPONSE

NG = No good. The message was not accepted because an illegal SM number was specified.
OK = The message was accepted and the action completed.

5. REFERENCES

Input Message(s):

OP:POSTMORT
1. PURPOSE

Requests the release of the postmortem save area. Once the postmortem has been printed, it is necessary to release (unlock) the postmortem save area so that the next postmortem can be saved on a subsequent recovery.

If the postmortem save area is not released manually by this input message, it will be released automatically 1 hour following a high-level initialization. Releasing the postmortem will suppress the five-minute automatic dump.

2. FORMAT

RLS:POSTMORT,CMP=a,{PRIM|MATE};

3. EXPLANATION OF MESSAGE

MATE = Mate CMP.
PRIM = Primary CMP.
a = Communication module processor (CMP) number.

4. SYSTEM RESPONSE

NG = No good. The message was not accepted because an illegal processor number was specified.
OK = The message was accepted and the action completed.

5. REFERENCES

Input Message(s):

OP:POSTMORT

Other Manual(s):

235-105-250 System Recovery Procedures
RLS:SMST

Software Release: 5E14 and later
Command Group: MAINT
Application: 5
Type: Input

1. PURPOSE

Requests that the terminal assigned to indicated switching modules (SMs) for switching module system test (SMST) routing be released. This input must be entered at the same terminal to which the SM is assigned.

2. FORMAT

RLS:SMST,SM=a[&b];

3. EXPLANATION OF MESSAGE

a = SM number, or lower limit of a range of SM numbers.

b = Upper limit of a range of SM numbers.

4. SYSTEM RESPONSE

NG = No good. The SM is not assigned to the terminal at which this input was entered.

OK = Good. The request was accepted and completed. The SM's SMST routing is released.

RL = Retry later. May also include:
- UNABLE TO SERVICE REQUEST The receiving process is not running. Manually invoke HMimst process and try again.

5. REFERENCES

Input Message(s):

OP:SMST
RTE:SMST

Output Message(s):

OP:SMST
**Software Release:** 5E14 and later  
**Command Group:** TRKLN  
**Application:** AEWNC  
**Type:** Input

### 1. PURPOSE

Request that the wireless test set assigned through ASGN:TESTSET will be de-assigned manually so that the wireless service will be returned to the user.

### 2. FORMAT

RLS:TESTSET,TSDN=a{,UCL}

### 3. EXPLANATION OF MESSAGE

| a  | DN of the test set to be de-assigned. |

### 4. SYSTEM RESPONSE

| RL | Retry later. The request has been denied, probably due to system load. |
| PF | Printout follows. The request has been accepted and is followed by an RLS:TESTSET output message. |

### 5. REFERENCES

**Output Message(s):**

RLS:TESTSET  
ASGN:TESTSET

**Other Manual(s):**

230-701-100  Air Extension℠ Reference Guide  
235-701-120  Air Extension℠ User Guide
RLS:TRUNK

Software Release: 5E14 and later
Command Group: TRKLN
Application: 5
Type: Input

1. PURPOSE

Releases a trunk that is being held off-hook and out-of-service due to a stop-go signaling error.

2. FORMAT

RLS:TRUNK:TKGMN=a-b;

3. EXPLANATION OF MESSAGE

a = Number of trunk group (TG) being released.
b = Number of trunk member being released.

4. SYSTEM RESPONSE

NA = Not available. Request has not been acknowledged. It is probable that the request has been lost.
PF = Printout follows. Request has been accepted. The RLS:TRUNK output message will follow identifying the results of the request.

5. REFERENCES

Output Message(s):

RLS:TRUNK
RLS:WSPOS

Software Release: 5E14 and later
Command Group: N/A
Application: 5
Type: Input

1. PURPOSE
Releases a trunk and line work station (TLWS) test position (TP).

2. FORMAT
RLS:WSPOS,TP=a[,UCL];

3. EXPLANATION OF MESSAGE

UCL = Release unconditionally. To be used when releasing test position from a terminal other than the one the TP is associated with.

a = TLWS TP number.

4. SYSTEM RESPONSE

NG = No good. Refer to the APP:TLWS appendix in the Appendixes section of the Output Messages Manual for an explanation of TLWS error responses.

OK = Good. TP released.

5. REFERENCES

Input Message(s):

SET:WSPOS

Output Appendix(es):

APP:TLWS

Other Manual(s):
235-100-125 System Description
235-105-110 System Maintenance Requirements and Tools
235-105-220 Corrective Maintenance

MCC Display Page(s):

160 (TRUNK & LINE MAINT)
RLS:WSTST

Software Release: 5E14 and later
Command Group: N/A
Application: 5
Type: Input

1. PURPOSE

Stops the test in progress and releases the associated testing hardware [such as, global digital services function (GDSF), transmission test facility (TTF) or directly connected test unit (DCTU)] at the indicated trunk and line work station (TLWS) test position (TP).

2. FORMAT

RLS:WSTST,TP=a;

3. EXPLANATION OF MESSAGE

a = TLWS TP number.

4. SYSTEM RESPONSE

NG = No good. Refer to the APP:TLWS appendix in the Appendixes section of the Output Messages Manual for an explanation of TLWS error responses.

OK = Good. The test was stopped and the hardware released.

5. REFERENCES

Input Message(s):

- CONN:WSJACK
- TST:WSDGTL
- TST:WSMEAS
- TST:WSMET
- TST:WSSEND
- TST:WSSUPV

Output Appendix(es):

- APP:TLWS

Other Manual(s):

- 235-100-125 System Description
- 235-105-110 System Maintenance Requirements and Tools
- 235-105-220 Corrective Maintenance

MCC Display Page(s):

- 160 - TRUNK & LINE MAINT
66. RMV
RMV:AIUCOM

Software Release: 5E14 and later
Command Group: SM
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE
Requests that an access interface unit common data and control controller (COMDAC) be removed from service.

WARNING: An unconditional removal of a COMDAC while mate side is out of service will result in a duplex failure of the COMDAC.

2. FORMAT
RMV:AIUCOM=a-b-c[,CAMPON=d][,UCL];

3. EXPLANATION OF MESSAGE

UCL = Executes removal unconditionally.

a = Switching module (SM) number.

b = AIU number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

c = COMDAC number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

d = Camp-on time in minutes (0-20). If CAMPON is not specified, camp-on time defaults to 6 minutes. Maximum time allowed is 20 minutes.

4. SYSTEM RESPONSE

NG = No good. The message form is valid, but the request conflicts with current status.

PF = Printout follows. Followed by the RMV:AIUCOM output message.

RL = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

Output Message(s):
RMV:AIUCOM

Input Appendix(es):
APP : RANGES

MCC Display Page(s):

1320.y.x (AIU SUMMARY)
RMV:AIULC

**Software Release:** 5E14 and later  
**Command Group:** SM  
**Application:** 5  
**Type:** Input

1. **PURPOSE**

Requests that an access interface unit (AIU) line circuit (LC) be removed from service.

2. **FORMAT**

RMV:AIULC=a-b-c-d[,CAMPON=e][,UCL];

3. **EXPLANATION OF MESSAGE**

- **UCL** = Executes removal unconditionally.

- **a** = Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

- **b** = AIU number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

- **c** = LP number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

- **d** = LC number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

- **e** = Camp-on time in minutes (0-20). If CAMPON is not specified, camp-on time defaults to 6 minutes. Maximum time allowed is 20 minutes.

4. **SYSTEM RESPONSE**

- **NG** = No good. The message form is valid, but the request conflicts with current status.

- **PF** = Printout follows. Followed by the RMV:AIULC output message.

- **RL** = Retry later. The request cannot be executed now due to unavailable system resources.

5. **REFERENCES**

**Output Message(s):**

RMV:AIULC

**Input Appendix(es):**

APP:RANGES
MCC Display Page(s):

1323,y,z,x (AIU AP STATUS)
RMV:AIULP

Software Release: 5E14 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE
Requests that an access interface unit (AIU) line pack (LP) be removed from service.

2. FORMAT
RMV:AIULP=a-b-c[,CAMPON=d][,UCL];

3. EXPLANATION OF MESSAGE

   UCL = Executes removal unconditionally.
   a = Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
   b = Access interface unit (AIU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
   c = LP number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
   d = Camp-on time in minutes (0-20). If CAMPON is not specified, camp-on time defaults to 6 minutes. Maximum time allowed is 20 minutes.

4. SYSTEM RESPONSE

   NG = No good. The message form is valid, but the request conflicts with current status.
   PF = Printout follows. Followed by the RMV:AIULP output message.
   RL = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

   Output Message(s):

   RMV:AIULP

   Input Appendix(es):

   APP : RANGES

   MCC Display Page(s):
1. PURPOSE

Requests that an access interface unit (AIU) timeslot group (TSGRP) be removed from service.

2. FORMAT

RMV:AIUTSGRP=a-b-c-d[,CAMPON=e][,UCL];

3. EXPLANATION OF MESSAGE

UCL = Executes removal unconditionally.

a = Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

b = Access interface unit (AIU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

c = Common data and control circuit (COMDAC) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

d = TSGRP number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

e = Camp-on time in minutes (0-20). If CAMPON is not specified, camp-on time defaults to 6 minutes. Maximum time allowed is 20 minutes.

4. SYSTEM RESPONSE

NG = No good. The message form is valid, but the request conflicts with current status.

PF = Printout follows. Followed by the RMV:AIUTSGRP output message.

RL = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

Output Message(s):

RMV:AIUTSGRP

Input Appendix(es):

APP:RANGES
RMV:AIURG

Software Release: 5E14 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Requests that an access interface unit (AIU) ring generator (RG) be removed from service.

2. FORMAT

RMV:AIURG=a-b-c[,UCL];

3. EXPLANATION OF MESSAGE

UCL = Executes removal unconditionally.

a = Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

b = AIU number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

c = RG number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

NG = No good. The message form is valid, but the request conflicts with current status.

PF = Printout follows. Followed by the RMV:AIURG output message.

RL = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

Output Message(s):

RMV:AIURG

Input Appendix(es):

APP:RANGES

MCC Display Page(s):

1322,y,x (AIU RG STATUS)
RMV:ALINK

Software Release: 5E14 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Requests that a line unit model 2 (LU2) or a line unit model 3 (LU3) A-link be removed from service.

2. FORMAT

RMV:ALINK=a-b-c-d-e;

3. EXPLANATION OF MESSAGE

a = Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

b = Line unit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

c = Line unit grid number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

d = Board number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

e = Line unit A-link number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

NG = No good. The request has been denied. The message form is valid, but the request conflicts with current status.

PF = Printout follows. Followed by the RMV:ALINK output message.

RL = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

Output Message(s):

RMV:ALINK

Input Appendix(es):

APP: RANGES
RMV:ALIT

Software Release: 5E14 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Requests that an automatic line insulation test (ALIT) circuit in a metallic service unit (MSU) be removed from service.

2. FORMAT

RMV:ALIT=a-b-c-d[,UCL];

3. EXPLANATION OF MESSAGE

UCL = Execute the removal unconditionally.

a = Switching module (SM) number.

b = MSU number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

c = Service group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

d = MSU board number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

NG = No good. The request has been denied. The message form is valid, but the request conflicts with current status.

PF = Printout follows. Followed by the RMV:ALIT output message.

RL = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

Output Message(s):

RMV:ALIT

Input Appendix(es):

APP:RANGES
RMV:ASC

Software Release: 5E14 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Requests that a remote switching module (RSM), optical remote switching module (ORM), or two-mile remote switching module (TRM) alarm and status circuit (ASC) be removed from service.

2. FORMAT

RMV:ASC=a[,UCL];

3. EXPLANATION OF MESSAGE

a = Switching module (SM) number.

4. SYSTEM RESPONSE

NG = No good. Request denied because of a conflict with current status.
PF = Printout follows. Followed by the RMV:ASC output message.

5. REFERENCES

Input Message(s):
RST:ASC

Output Message(s):
RMV:ASC

Other Manual(s):
235-105-110 System Maintenance Requirements and Tools
RMV:BICCCADN

Software Release: 5E16(1) and later
Command Group: TRKLN
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Requests the removal of a single bearer-independent call control (BICC) block from service and the placing of all the call instance codes (CICs) of the specified block into the circuit administration (CADN) out-of-service (OOS) status.

The request also sends a BICC circuit group blocking (CGB) message to the far end to block the addressed BICC CIC block members at the far end. Any CICs in the BICC CIC block that is being removed from service will be blocked so that no new calls can be originated on them at the far end.

The provisioned CICs required by the BICC protocol for each origination point code (OPC) and destination point code (DPC) are divided into blocks of 128 and are stored on switching module (SM)-2000s that are provisioned as being BICC-capable.

A BICC CIC block may be put into out-of-service for circuit administration (OOS CADN).

No more than three requests can be active at any one time.

If a request is issued for a BICC group and CIC block and if a previous request is still active for the same BICC group and CIC block, the second request will be treated as a duplicate request and will not be honored.

WARNING: Using the UCL option could be service-affecting.

2. FORMAT

RMV:BICCCADN,BGMN=a-b&&c[,CAMPON=d][,BACKOUT][,KILL][,UCL];

3. EXPLANATION OF MESSAGE

Refer to the Acronym section of the Input Messages manual for the full expansion of acronyms shown in the format.

BACKOUT = The restore functionality will be invoked if the block is not entirely moved into the OOS CADN status. All CICs that had been successfully moved into OOS CADN status will be restored to active status. If the BACKOUT option is not selected, the restore function will not be invoked if the block is not entirely moved into the OOS CADN status, and those CICs that were successfully moved to OOS CADN status will remain OOS CADN. The BACKOUT option cannot be used if either the KILL option or the UCL option is selected.

KILL = Kill all calls.

If any of the CICs still have busy calls on them at the end of the campon interval, these calls will be killed and the entire block will be put into the OOS CADN status.

UCL = Unconditional.

If the user requests that the BICC CIC block be removed unconditionally, then any CICs that have active calls will have their calls killed immediately and the CICs will be put into the OOS CADN status.
If the user does not request the UCL option, and if there are calls active on some of the CICs of the BICC block specified in the input message, these calls will be camped-on using a time specified by the user or by using a default time. As the calls become idle, the corresponding CICs will be put into the CADN status. While camped onto an entire BICC CIC block, no new calls are allowed on the specified BICC CIC block.

If UCL is selected, the user cannot enter a camp-on time, select the KILL option, or select the BACKOUT option.

\[a\] = BICC trunk group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

\[b\] = CIC for first member of the BICC CIC block.

\[c\] = CIC for last member of the BICC CIC block.

\[d\] = Camp-on time, measured in minutes. If no time is entered, the default camp-on time is 20 minutes. If the camp-on interval expires before all of the CICs become idle, the action to be taken will depend on the user input.

If the user does not request that all calls be killed, then if any CICs are still busy at the end of the camp-on time interval these calls will remain alive.

### 4. SYSTEM RESPONSE

**PF** = Printout follows. The request has been accepted. Followed by the RMV:BICCCADN output message.

**NG** = No good. May also include:
- **BICC NOT AVAILABLE IN OFFICE.** = This office does not support the BICC protocol.
- **DUPLICATE REQUEST.** = This is a duplicate RMV:BICCCADN request for the same BICC CIC block and CIC group, and will not be allowed.
- **HIGH MEMBER NOT LAST IN SAME BLOCK.** = The normalized CIC high member is not exactly 127 greater than the low member.
- **INVALID BG.** = The BICC group entered by the user does not exist.
- **INVALID BGMN.** = The BICC CIC block range is invalid.
- **INVALID BICC BLOCK.** = The BICC CIC block has no members.
- **LOW MEMBER NOT FIRST IN BLOCK.** = The normalized CIC low member is not divisible by 128, or is greater than 65408.
- **NO MEMBERS IN BICC GROUP.** = There are no CIC block members in the BICC group.
- **TOO MANY ACTIVE REQUESTS.** = No more than three active RMV:BICCCADN are allowed at one time.

**RL** = Retry later. May also include:
- **DATABASE ERROR.** Cannot read the trunk group relation.
- **BICCBMOVE IN PROGRESS.** A movement of BICC groups is in progress.
5. REFERENCES

Input Message(s):

OP: JOBSTATUS
OP: BICC

Output Message(s):

RMV: BICCCADN
RMV: TRK

Input Appendix(es):

APP: RANGES

Output Appendix(es):

APP: PORT-STATUS

Other Manual(s):

235-105-110 System Maintenance Requirements and Tools
235-200-115 CNI Common Channel Signaling
235-200-116 Signaling Gateway Common Channel Signaling
**RMV:BTSR**

*Software Release:* 5E14 and later  
*Command Group:* SM  
*Application:* 5  
*Type:* Input

1. **PURPOSE**

Requests that the bootstrapper board (BTSR) be removed from service.

2. **FORMAT**

```
RMV:BTSR=a[,UCL];
```

3. **EXPLANATION OF MESSAGE**

- **UCL** = Execute the removal unconditionally.
- **a** = Switching module number.

4. **SYSTEM RESPONSE**

- **NG** = No good. The request has been denied. The message form is valid, but the request conflicts with current status.
- **PF** = Printout follows. Followed by the RMV:BTSR output message.
- **RL** = Retry later. The request cannot be executed now due to unavailable system resources.

5. **REFERENCES**

Output Message(s):

- **RMV:BTSR**
RMV:CCSLK
Software Release: 5E14 and later
Command Group: CCS
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Removes a common channel signaling (CCS) link(s) from service by deactivating, inhibiting, or blocking the link(s).

Note: The BLK option will block the last active link to a point code, whether or not the UCL option is used, because BLK is by default, unconditional.

The INH option cannot be used on the last active link to a point code, even if UCL is used.

Conditional removal requests (either individual or range requests) will be honored only to the extent that at least 50% of the equipped links in the link set remain ACT. The UCL option is required to remove the remaining links to the DACT state.

This input message is applicable only for PSU platform CCS7.

WARNING: Care should be taken when using the blocking (BLK) or the deactivating (DACT) option (variable 'e'); misuse of this option may cause blocking or deactivating of all the links to a point code. Only experienced technicians should attempt to use this option.

2. FORMAT

RMV:CCSLK, SET=a[&&b], MEMBER=c[&&d], STATE=e[, UCL][, SM=f];

3. EXPLANATION OF MESSAGE

UCL = Unconditionally executes removal of a signaling link. Refer to the PURPOSE section for UCL usage.

a = Link set number or lower limit of a range of link set numbers. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual. When a range is specified, only equipped numbers in the range will be processed. The range of numbers need not start or end with equipped link set numbers.

b = Upper limit of a range of link set numbers.

c = Link member number or lower limit of a range of link member numbers. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual. When a range is specified, only equipped numbers in the range will be processed. Range of numbers need not start or end with equipped link member numbers.

d = Upper limit of a range of link member numbers.

e = Link state. Valid value(s):
BLK = Blocks all traffic from using a link(s).
DACT = Deactivates a link(s).
INH = Except for test and maintenance traffic, inhibits all traffic from the link. The last signaling link may not be inhibited if it would cause common channel signaling to be lost to any DPC.

f = Global switching module (GSM) number. CCS GSM number where the link to be removed is located. If no SM number is specified and only one CCS GSM exists in the office, action will be taken on the specified link on that GSM. If multiple CCS GSMS exist in the office, the SM must be specified.

4. SYSTEM RESPONSE

NG = No good. May also include:
- GSM MISMATCH = The specified SM is not a GSM or the SM does not exist.
- NO GLOBAL SM = No GSM is provisioned in the office.
- NEED GSM NUMBER = SM was not specified in the input message, and the office has more than one GSM provisioned.

PF = Printout follows. Followed by the RMV:CCSLK output message.

RL = Retry later. May also include:
- SM NOT AVAILABLE = Command cannot be processed because the specified GSM is not accessible.

5. REFERENCES

Output Message(s):

REPT:CCSLK
RMV:CCSLK

Input Appendix(es):

APP:RANGES

Other Manual(s):
235-190-120 Common Channel Signaling Service Features

MCC Display Page(s):

1532 (CCS LINK SET SUMMARY)
1533 (CCS LINK SET MEMBER)
RMV:CDFI

Software Release: 5E14 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Requests that an inter-remote switching module (RSM) communication link digital facilities interface (CDFI) circuit be removed from service.

2. FORMAT

RMV:CDFI=a-b-c[,UCL];

3. EXPLANATION OF MESSAGE

<table>
<thead>
<tr>
<th>UCL</th>
<th>= Remove the circuit unconditionally.</th>
</tr>
</thead>
<tbody>
<tr>
<td>a</td>
<td>= Switching module (SM) number.</td>
</tr>
<tr>
<td>b</td>
<td>= Digital line and trunk unit (DLTU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.</td>
</tr>
<tr>
<td>c</td>
<td>= CDFI number. This will disconnect stable calls. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.</td>
</tr>
</tbody>
</table>

4. SYSTEM RESPONSE

<table>
<thead>
<tr>
<th>NG</th>
<th>= No good. The message syntax is valid, but the request conflicts with current system or equipment status. Optional information:</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>- SM DOES NOT EXIST</td>
</tr>
<tr>
<td></td>
<td>- SM UNEQUIPPED</td>
</tr>
<tr>
<td></td>
<td>- UNIT DOES NOT EXIST</td>
</tr>
<tr>
<td></td>
<td>- NOT STARTED UNIT IN GROWTH STATE</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>PF</th>
<th>= Printout follows. Followed by the RMV:CDFI output message.</th>
</tr>
</thead>
<tbody>
<tr>
<td>RL</td>
<td>= Retry later. The request cannot be executed now due to unavailable system resources.</td>
</tr>
</tbody>
</table>

5. REFERENCES

Input Message(s):

RST:CDFI

Output Message(s):

RMV:CDFI
Input Appendix(es):

APP : RANGES
RMV:CDI

Software Release: 5E14 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Requests that a control data interface (CDI) be removed from service.

2. FORMAT

RMV:CDI=a-b-c[,UCL];

3. EXPLANATION OF MESSAGE

UCL  = Execute the removal unconditionally.
a  = Switching module number.
b  = Trunk unit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
c  = Service group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

NG  = No good. The request has been denied. The message form is valid, but the request conflicts with current status.
PF = Printout follows. Followed by the RMV:CDI output message.
RL = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

Output Message(s):

RMV:CDI

Input Appendix(es):

APP: RANGES
RMV:CLNK
Software Release: 5E14 and later
Command Group: CM
Application: 5
Type: Input

1. PURPOSE
Requests that a specified communication link (CLNK) be removed from service.

2. FORMAT
RMV:CLNK=a-b-c-d;

3. EXPLANATION OF MESSAGE

a = Switching module (SM) number.

b = Office network and timing complex number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

c = Type of module message processor (MMP). Valid value(s):
0 = MMP that handles the even control time slot associated with the SM.
1 = MMP that handles the odd control time slot associated with the SM.

d = Message switch number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

NG = No good. The message was invalid.

PF = Printout follows. Followed by the RMV:CLNK output message.

5. REFERENCES
Output Message(s):
RMV:CLNK

Input Appendix(es):
APP:RANGES
RMV:CMP

Software Release: 5E14 and later
Command Group: CM
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Requests removal of a communication module processor (CMP) from service.

WARNING: The use of this input message with the unconditional option could result in the loss of transient calls. Use with extreme caution!

2. FORMAT

RMV:CMP=a-b[,UCL];

3. EXPLANATION OF MESSAGE

UCL = Perform any CMP switch unconditionally.

a = Message switch side number.

b = CMP number.

4. SYSTEM RESPONSE

NG = No good. The request has been denied. The message syntax is valid, but the request could not be processed. Refer to the APP:CM-IM-REASON appendix in the Appendixes section of the Input Messages manual for a list of possible reasons for denying the request.

PF = Printout follows. Followed by the RMV:CMP output message.

RL = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

Input Message(s):

SW:CMP

Input Appendix(es):

APP:CM-IM-REASON

Output Message(s):
RMV: CMP

Other Manual(s):
235-105-110  System Maintenance Requirements and Tools
235-105-220  Corrective Maintenance
235-105-250  System Recovery Procedures

MCC Display Page(s):

1241, 1251 (MSGS COMMUNITIES)
1240, 1250 (MSGS STATUS for CM3)
RMV:CPE

Software Release: 5E14 and later
Command Group: TRKLN
Application: 5
Type: Input

1. PURPOSE

Requests removal from service of the specified customer premises equipment (CPE) integrated services digital network (ISDN) terminal on custom multi-point (MP) and standard interface digital subscriber line (DSL).

CPEs on custom MP and standard interfaces can be removed from service. A CPE is removed from service until it:
- Is manually restored using the RST:CPE input message,
- Re-initializes its layer 2 connection automatically, or
- The DSL to which the CPE is connected loses its layer 2 connection and regains it (either automatically or on demand using the RMV:LINE and RST:LINE input messages).

If the CPE removed from service is a member of modem pool group, the analog port of this member is also removed from service and the status of the analog port is marked "OOS MTCE FE MPOOS AUTO".

During the time that the CPE is out-of-service (OOS), the customer served by the CPE will be without service. Both circuit-switched services and packet-switched services will be unavailable. Customers can regain service at their own initiative by powering down the CPE, waiting some amount of time (which is terminal-dependent), and then powering the CPE back up.

Since only one maintenance activity is allowed on a DSL at a given time, this request could be blocked if another maintenance activity is already active. This is true for both conditional and unconditional removal requests.

2. FORMAT

RMV:CPE,a[,TEI=h][,UCL];

3. EXPLANATION OF MESSAGE

UCL = Remove the CPE from service unconditionally. This will tear down any active calls associated with the CPE before removing the CPE from service. However, even an unconditional request will be rejected if any other maintenance activity is already in progress on the DSL. If UCL is not specified, the CPE will be removed only if no other maintenance activity is in progress on the DSL and the specified CPE is idle.

a = Equipment number or identifier. Valid value(s):

AIUEN=d-o-p-q
DN=r
ILEN=d-i-j-k
INEN=d-s-j-k
LCEN=d-e-f-g
LCKEN=d-e-n-l-m
MLHG=b-c
PKTDN=r

b = Multi-line hunt group (MLHG) number of the subscriber associated with the CPE. This option is valid only if a CPE has associated itself with that MLHG subscriber.
c = Multi-line hunt member number of the subscriber.
d = Switching module (SM) in which the DSL exists.
e = Integrated services line unit (ISLU) or ISLU version 2 (ISLU2) in which the DSL exists. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
f = Line group controller (LGC) in the ISLU/ISLU2 in which the DSL exists. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
g = Line card of the ISLU line group controller which the DSL connects to. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
h = Terminal endpoint identifier (TEI) that identifies the particular CPE to be removed. The AIUEN|ILEN|INEN|LCEN|LCKEN/TEI identification can be used to remove any in-service (IS) CPE on a DSL. The AIUEN|ILEN|INEN|LCEN|LCKEN/TEI identification is the only way to remove a CPE that is not associated with a specific subscriber on the DSL (for example, a CPE that is receiving default service). The TEI is dynamically assigned to a CPE when the CPE establishes its layer 2 connection with the network. The trunk and line work station (TLWS) DSL MCC Display Pages or the OP:CPE input message can be used to determine what CPEs currently have layer 2 established on the DSL and what TEI has been assigned to each CPE.
i = IDCU number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
j = Remote terminal (RT) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
k = RT line number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
l = Line board number of. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
m = Line circuit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
n = Line group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
o = Access interface unit (AIU) Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
p = AIU pack number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
q = AIU circuit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
r = Circuit directory number (DN) or packet directory number (PKTDN) of the subscriber associated with the CPE. This option is only valid if a CPE exists that has identified itself as being associated with that subscriber. For key-system services, only primary DNs are valid. For non-key-system services, any DN associated with the subscriber can be used.
s = Digital network unit - synchronous optical network (SONET) (DNU-S) number. Refer to the
APP: RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

NG = No good. The input request was in some way invalid, most likely because a value was out of range. Identify the error with the original request and repeat the request.

PF = Printout follows. The requested action has been accepted and is being processed. An output RMV:CPE message will be printed that identifies the outcome of the request.

5. REFERENCES

Input Message(s):

OP:CPE
RMV:LINE
RST:CPE
RST:LINE

Output Message(s):

RMV:CPE

Input Appendix(es):

APP: RANGES

MCC Display Page(s):

160 (TRUNK & LINE MAINT)
RMV:CU

Software Release: 5E14 and later
Command Group: AM
Application: 5,3B
Type: Input

1. PURPOSE
Requests that the specified administrative module (AM) control unit (CU) be removed from the standby state to the out-of-service (OOS) state.

2. FORMAT
RMV:CU=a;

3. EXPLANATION OF MESSAGE

a = Member number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

PF = Printout follows. Followed by the RMV:CU output message.

5. REFERENCES

Input Message(s):
DGN:CU
RST:CU

Output Message(s):
RMV:CU

Input Appendix(es):
APP:RANGES

Other Manual(s):
235-105-220 Corrective Maintenance

MCC Display Page(s):
(COMMON PROCESSOR)
**RMV:DATALINK**

**Software Release:** 5E14 and later  
**Command Group:** TRKLN  
**Application:** 5  
**Type:** Input

### 1. PURPOSE

Requests the removal of a data link from service by placing it in the specified out-of-service (OOS) status. If no status is given, a default status (identified below) is assumed. A data link can be identified by its type (AP, DASC, etc.) and group and relative link number or by its equipment number (LCEN, LCKEN, INEN, ILEN, or AIUEN).

If the data link is already OOS, the OOS status will be added to the data link in its proper place in the hierarchy, if possible. Up to four independent OOS conditions can exist simultaneously on a data link. Refer to the APP:PORT-STATUS appendix for a more detailed explanation of statuses that apply to data links. If an external data base (XDB) data link is busy when the request is made, it will be camped on for up to 20 minutes unless an unconditional removal is requested or a camp-on time limit of 0 is specified. If a camp-on is started, a REPT:CAMPON output message will be generated. The camp-on can then be terminated by a STP:CAMPON input message if desired. If removed unconditionally, the data link is preempted and any communication in progress is torn down. If a data link other than an XDB is busy when the request is made, the conditional request is denied. If an external information system (EIS) data link is busy when the request is made, it will be camped on for up to 20 minutes unless an unconditional removal is requested or a camp-on time limit of 0 is specified. If a camp-on is started, a REPT:CAMPON output message will be generated. The camp-on can be terminated by a STP:CAMPON input message if desired. Unconditional removal of an EIS data link will preempt any communication and calls in progress will be torn down. Conditional removal of an autoquote (AQ), hotel billing center record terminal (HOBICR), hotel billing center voice terminal (HOBICV), Hotel Billing Information System (HOBIS), or XDB data link, is denied if fewer than 50% of the equipped data links of the same type would remain in service after the removal. Conditional removal of a directory assistance system computer (DASC), management information system (MISLNK), remote alarm section (RAS), or Real-Time Rating System (RTRS) data link, is denied if its mate duplex data link is out of service. Conditional removal of an EIS data link is denied if fewer than N data links of the EIS data link group would remain in service after the removal, where N is the EIS data link group's minimum links. Refer to the recent change View 21.52. Conditional removal of an operator services position system (OSPS) administrative processor (OAP) data link is denied if the data link is in service and logged in. For these cases, a completion report of PORT BUSY is returned in the RMV:DATALINK output message. Conditional removal of an AP data link is not permitted. The RMV:DATALINK output message will have a completion report of CAMPON NOT ALLOWED. An OOS condition on a data link may be deleted using the RST:DATALINK input message.

### 2. FORMAT

```
RMV:DATALINK,a[,CH=b][,c][[:[d][,e][,f][,g][,UCL]];
```

### 3. EXPLANATION OF MESSAGE

**Note:** Refer to the Acronym section of the Input Messages manual for the full expansion of acronyms shown in the format.

- **UCL** = Unconditional removal. Indicates that the data link should be preempted. All stable communication will be disconnected (traffic release).

- **a** = Valid value(s):

| AIUEN=l-e | HOBIS=h-1 | OAPF=y |
| AP=h-1    | ILEN=l-v-w-x | OAPO=z |
| AQ=h-1    | INEN=l-d1-w-x | RAS=h-1 |
b

Channel identifier [D (default), B1, or B2].

If this option is not specified or if the D-channel is specified, the D-channel and all on-demand service B-channels will be removed from service, but permanent packet B-channels will not be removed. If a B-channel is specified, only that B-channel will be removed from service.

The channel identifier is ignored for Operator Services Position System (OSPS) digital subscriber lines (DSLs) serving basic services terminals (BSTs) and operator position terminals (OPTs). For BST and OPT DSLs, the entire DSL will be removed from service even if only the D-channel or a B-channel is specified in the input request.

c

Valid value(s):

CAMPON=p UCL

Status subfields are always separated by a single comma, even if in-between statuses are omitted (as in OOS,DSBLD).

d

Basic state. Valid value(s):

OOS = Out of service (default)

e

Qualifier (choose one or omit). Valid value(s):

MKBUSY = Make busy. If basic state field 'd' is not specified, it will be defaulted to OOS.
MTCE = Maintenance (default). If basic state field 'd' is not specified, it will be defaulted to OOS.
PPSRV = Pre-post service. If basic state field 'd' is not specified, it will be defaulted to OOS.
TMT = Traffic management (valid only for outgoing trunks). If basic state field 'd' is not specified, it will be defaulted to OOS.

f

Operational restrictions (choose one or omit). Valid value(s):

DSBLD = Disabled (default). If qualifier field 'e' is not specified, it will be defaulted to MTCE.
PLGUP = Plug-up (no effect). If qualifier field 'e' is not specified, it will be defaulted to MTCE.
PX = Power cross. If qualifier field 'e' is not specified, it will be defaulted to MTCE.
RAP = Recorded announcement port. If qualifier field 'e' is not specified, it will be defaulted to MTCE.

Note: If the entire port status is omitted the status will default to OOS, MTCE, and DSBLD. If a status sub-field is entered without entering the previous sub-field, the default values indicated will be assumed.

g

Supplementary information (choose one or omit). This field is used to record the reason for removal. Valid value(s):

AML = Automatic maintenance limit
AUDIT = Audit detected problem
CAMA = Central automatic message accounting
CAROT = Centralized automatic reporting on trunks
CDI = Control and data interface
CKT = Circuit
CTTU = Central trunk testing unit
DFI = Digital facility interface
FORPOT = Foreign potential
GRD = Ground fault
GRID = Line unit grid
IAA = Ineffective attempt analysis
ISLU = Integrated services line unit
PCTF = Per-call test failure
PPM = Periodic pulse metering
PSU = Packet switch unit
REX = Routine exercise
RO = Routine other
ROTF = Operational trouble
SCC = Switching control center
SPARED = Line involved in ISLU sparing configuration
TICOM = Treated interface common circuit
TRBL = Unspecified trouble
TRBLORG = Origination trouble
TRKBD = Trunk board
TRKCT = Trunk circuit

h = Data link (group) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
i = Relative link (member) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
l = Switching module (SM) number.
m = Integrated services line unit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
n = Line group controller number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
o = Line card number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
p = Time limit specified in minutes (0-1438). A camp-on time limit of 0 indicates that no camp-on will be performed if the line is traffic busy.
t = EIS identifier (ID) on which the CPDL terminate. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
u = External data link (member) number relative to the EIS. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
v = IDCU number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
\( w \) = Remote terminal (RT) number or IDCU digital signal level 1 (DS1) serving PUB43801 number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

\( x \) = RT line number or PUB43801 channel. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

\( y \) = Force management center number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

\( z \) = Operator service center number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

\( a^1 \) = Line group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

\( b^1 \) = Line board number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

\( c^1 \) = Line circuit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

\( d^1 \) = Digital network unit - synchronous optical network (SONET) (DNU-S) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

\( e^1 \) = Access interface unit (AIU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

\( f^1 \) = AIU pack number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

\( g^1 \) = AIU circuit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

\( PF \) = Printout follows. The request has been accepted and will be followed by a RMV:DATALINK output message.

\( RL \) = Retry later. The request has been denied, probably due to system load.

5. REFERENCES

Input Message(s):

\texttt{OP:STATUS}
\texttt{RST:DATALINK}
\texttt{STP:CAMPON}

Output Message(s):

\texttt{REPT:CAMPON}
\texttt{RMV:DATALINK}
Input Appendix(es):

APP : RANGES
RMV:DCI

Software Release: 5E14 and later
Command Group: N/A
Application: 5,3B
Type: Input

1. PURPOSE

Removes the specified dual serial channel/computer interconnect (DCI) from service.

2. FORMAT

RMV:DCI=a;

3. EXPLANATION OF MESSAGE

a = Member number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

PF = Printout follows. Followed by the RMV:DCI output message.

RL = Retry later. The system is in overload condition.

?D = General syntax error in the data field, followed by the parameter position and the following reason:
  INVALID KEYWORD = The keyword in the stated parameter position is not a valid keyword.

?I = General syntax error, followed by the parameter position and one of the following reasons:
  EXTRA KEYWORD = Duplicate or extraneous keywords were input.
  INVALID KEYWORD = The keyword in the stated parameter position is not a valid keyword.
  MISSING KEYWORD = A required keyword is missing from the input.

5. REFERENCES

Input Message(s):
  DGN:DCI
  RST:DCI

Output Message(s):
  DGN:DCI
  RMV:DCI
  RST:DCI

Input Appendix(es):
  APP:RANGES
Other Manual(s):
235-105-220  Corrective Maintenance

MCC Display Page(s):

(COMMON PROCESSOR DISPLAY)
RMV:DCLU

Software Release: 5E14 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE
Requests that a SLC®96 digital carrier line unit (DCLU) be removed from service.

2. FORMAT
RMV:DCLU=a-b-c[,UCL];

3. EXPLANATION OF MESSAGE
UCL = Execute removal unconditionally, dropping stable calls.
a = Switching module (IM or SM) number.
b = DCLU number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
c = Service group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE
NG = No good. The request has been denied. The message form is valid, but the request conflicts with current status.
Pf = Printout follows. The request was accepted. Followed by the RMV:DCLU output message.
RL = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES
Input Message(s):
STP:DCLU

Output Message(s):
RMV:DCLU

Input Appendix(es):
APP:RANGES
RMV:DCTUCOM

Software Release: 5E14 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Requests that a directly connected test unit common board (DCTUCOM) circuit be removed from service.

2. FORMAT

RMV:DCTUCOM=a-b[,UCL];

3. EXPLANATION OF MESSAGE

UCL = Execute the removal unconditionally.

a = Switching module (SM) number.

b = Directly connected test unit number.

4. SYSTEM RESPONSE

NG = No good. The request has been denied. The message form is valid, but the request conflicts with current status.

PF = Printout follows. Followed by the RMV:DCTUCOM output message.

RL = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

Output Message(s):

RMV:DCTUCOM

Other Manual(s):
235-105-210 Routine Operations and Maintenance
235-105-220 Corrective Maintenance
RMV:DCTUPORT

Software Release: 5E14 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE
Requests that a directly connected test unit port circuit (DCTUPORT) be removed from service.

2. FORMAT
RMV:DCTUPORT=a-b-c[,UCL];

3. EXPLANATION OF MESSAGE

UCL = Execute the removal unconditionally.

a = Switching module number.

b = Directly connected test unit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

c = Circuit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

NG = No good. The request has been denied. The message form is valid, but the request conflicts with current status.

PF = Printout follows. Followed by the RMV:DCTUPORT output message.

RL = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

Output Message(s):

RMV:DCTUPORT

Input Appendix(es):

APP:RANGES
RMV:DFC
Software Release: 5E14 and later
Command Group: AM
Application: 5,3B
Type: Input

1. PURPOSE
Requests that a specified disk file controller (DFC) and any associated moving head disks (MHDs) be removed from service.

2. FORMAT
RMV:DFC=a;

3. EXPLANATION OF MESSAGE
a = Member number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE
PF = Printout follows. Followed by the RMV:DFC output message.

5. REFERENCES
Input Message(s):
DGN:DFC
DGN:MHD
RMV:MHD
RST:DFC
RST:MHD

Output Message(s):
DGN:DFC
DGN:MHD
RMV:DFC
RMV:MHD
RST:DFC
RST:MHD

Input Appendix(es):
APP:RANGES

Other Manual(s):
235-105-220 Corrective Maintenance
RMV:DFI

Software Release: 5E14 and later
Command Group: SM
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Requests that a digital facility interface (DFI) be removed from service.

WARNING: DFI containing packet pipe (PP) or packet pipe member (PPM) can not be removed conditionally. Doing so may result in the DFI being marked as degraded. An unconditional (UCL) remove input message is needed to completely remove DFI with PP or PPM.

For a very compact digital exchange (VCDX) switching module (SM) with common channel signaling (CCS7) access on a packet switching unit (PSU), a DFI can be conditionally removed only if any CCS signaling data links (SDLs) on this DFI are manually removed first, or if the SDL parent CCS links (CCSLKs) are manually deactivated. In addition, an unconditional (UCL) removal of a DFI may impact CCS operations.

2. FORMAT

RMV:DFI=a-b-c[,UCL];

3. EXPLANATION OF MESSAGE

UCL = Execute the removal unconditionally.

a = Switching module number.

b = Digital line/trunk unit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

c = DFI number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

NG = No good. The request has been denied. The message form is valid, but the request conflicts with current status.

PF = Printout follows. Followed by an RMV:DFI output message.

RL = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES
Output Message(s):

RMV: DFI

Input Appendix(es):

APP: RANGES

Other Manual(s):
235-105-220  Corrective Maintenance
235-190-120  Common Channel Signaling Services Features
RMV:DFIH

**Software Release:** 5E14 and later  
**Command Group:** SM  
**Application:** 5  
**Type:** Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. **PURPOSE**

Requests that a remote integrated services line unit (RISLU) host/remote digital facility interface circuit pair (DFIH) be removed from service. The system will attempt to move traffic present on the associated facility to other facilities serving the same RISLU. If the facility cannot be made available immediately then a conditional remove request will wait (camp-on) until the facility becomes available or the camp-on period expires.

**WARNING:** An unconditional remove request does not camp-on and will result in the unit dropping stable calls unless traffic can be moved to other facilities.

2. **FORMAT**

RMV:DFIH=a-b-c[,CAMP=d][,UCL];

3. **EXPLANATION OF MESSAGE**

- **UCL** = Execute removal unconditionally.
- **a** = Switching module (SM) number.
- **b** = RISLU digital line and trunk unit (DLTU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
- **c** = DFIH number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
- **d** = Allow a maximum of ‘d’ minutes for camp-on time. If CAMP is not specified, camp-on defaults to 3 minutes. Maximum camp-on time is 20 minutes.

4. **SYSTEM RESPONSE**

- **NG** = No good.  
  - CONFLICT WITH UNIT STATE  
  - SM DOES NOT EXIST  
  - SM UNEQUIPPED  
  - UNIT DOES NOT EXIST

- **PF** = Printout follows. Followed by the RMV:DFIH output message.

- **RL** = Retry later. The request cannot be executed now due to unavailable system resources.
5. REFERENCES

Input Message(s):

   RST : DFIH

Output Message(s):

   RMV : DFIH

Input Appendix(es):

   APP : RANGES

MCC Display Page(s):

   (RISLU DTLU)
1. PURPOSE

Requests that the distributing frame test access circuit (DFTAC) be removed from service.

2. FORMAT

RMV:DFTAC=a-b-c-d[,UCL];

3. EXPLANATION OF MESSAGE

UCL = Execute the removal unconditionally. Any existing user of the circuit will be preempted.

a = Switching module (SM) number.

b = Metallic service unit (MSU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

c = Service group. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

d = Circuit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

NG = No good. Invalid SM number, MSU number or service group number.

PF = Printout follows. Output message will follow with completion status.

RL = Retry later. The request cannot be executed now due to unavailable system resources (such as SM is not linked).

5. REFERENCES

Input Message(s):

ABT:DFTAC
RST:DFTAC
STP:DFTAC

Output Message(s):

RMV:DFTAC
Input Appendix(es):

APP : RANGES
RMV:DIST

**Software Release:** 5E14 and later  
**Command Group:** SM  
**Application:** 5  
**Type:** Input

1. **PURPOSE**

Requests that a distribute point board (DIST) be removed from service.

2. **FORMAT**

RMV:DIST=a-b-c-d[,UCL];

3. **EXPLANATION OF MESSAGE**

- **UCL** = Execute the removal unconditionally.
- **a** = Switching module number.
- **b** = Metallic service unit (MSU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
- **c** = Service group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
- **d** = Distribute point board number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. **SYSTEM RESPONSE**

- **NG** = No good. The request has been denied. The message form is valid, but the request conflicts with current status.
- **PF** = Printout follows. Followed by the RMV:DIST output message.
- **RL** = Retry later. The request cannot be executed now due to unavailable system resources.

5. **REFERENCES**

Output Message(s):

RMV:DIST

Input Appendix(es):

APP:RANGES
RMV:DLI

Software Release: 5E14 and later
Command Group: CM
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Requests a removal of a specific dual link interface (DLI) and places it in the ‘OOS MAN RMV’ state.

WARNING: Using the unconditional (UCL) option with this message may result in lost calls. If the UCL option is not used, checks will be made to see whether removing the DLI will be service affecting. If the removal will affect service, the request will be denied.

If the UCL option is used, the DLI will be removed whether it affects calls or not.

2. FORMAT

RMV:DLI=a-b[,UCL];

3. EXPLANATION OF MESSAGE

UCL = Remove the DLI unconditionally. This option should only be used when the DLI MUST BE removed from service and a conditional removal is denied.

a = Switching module (SM) number that the DLI to be removed is in. (The DLI number and the SM number are the same.)

b = Office network and timing complex (ONTC) side that the DLI is on.

4. SYSTEM RESPONSE

NG = No good. The request has been denied. The message syntax is valid, but the request could not be processed. Refer to the APP:CM-IM-REASON appendix in the Appendixes section of the Input Messages manual for a list of possible reasons for denying the request.

PF = Printout follows.

RL = Retry later. The request cannot be executed now because the communication module (CM) deferred maintenance queue (DMQ) is full.

5. REFERENCES

Input Message(s):

OP:DMQ
RST:DLI
Input Appendix(es):

APP: CM-IM-REASON

Output Message(s):

OP: DMQ-CM
OP: DMQ-SM
RMV: DLI
RMV:DNUSCC

Software Release: 5E14 and later
Command Group: SM
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Requests that a digital networking unit - synchronous optical network (DNU-S) common controller (DNUSCC) be removed from service.

WARNING: An unconditional removal of a DNUSCC while the mate DNUSCC is out of service will result in a duplex failure of the DNUSCC, degrading maintenance for the unit.

2. FORMAT

RMV:DNUSCC=a-b-c[,UCL];

3. EXPLANATION OF MESSAGE

UCL = Executes removal unconditionally.

a = Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

b = DNU-S number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

c = Common controller number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

NG = No good. The message form is valid, but the request conflicts with current status.

PF = Printout follows. Followed by the RMV:DNUSCC output message.

RL = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

Input Message(s):

ABT:DNUSCC
RST:DNUSCC
STP:DNUSCC
Output Message(s):

RMV : DNUSCC

Input Appendix(es):

APP : RANGES

Other Manual(s):
235-105-110  System Maintenance Requirements and Tools
235-105-220  Corrective Maintenance

MCC Display Page(s):

1510 (DNUS STATUS)
RMV:DNUSCD

Software Release: 5E14 and later
Command Group: SM
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Requests that a digital networking unit - synchronous optical network (DNU-S) common data (DNUSCD) be removed from service.

WARNING: An unconditional removal of a DNUSCD while the mate DNUSCD is out of service will result in a duplex failure of the DNUSCD, disrupting service for the entire data group.

2. FORMAT

RMV:DNUSCD=a-b-c-d[,UCL];

3. EXPLANATION OF MESSAGE

UCL = Executes removal unconditionally.

a = Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

b = DNU-S number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

c = Data group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

d = Common data number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

NG = No good. The message form is valid, but the request conflicts with current status.

PF = Printout follows. Followed by the RMV:DNUSCD output message.

RL = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

Input Message(s):

ABT:DNUSCD
RST:DNUSCD
STP:DNUSCD
Output Message(s):

RMV: DNUSCD

Input Appendix(es):

APP: RANGES

Other Manual(s):
235-105-110  System Maintenance Requirements and Tools
235-105-220  Corrective Maintenance

MCC Display Page(s):

1510 (DNUS STATUS)
RMV:DNUSEOC

Software Release: 5E14 and later
Command Group: SM
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Requests that a remote terminal (RT) embedded operations channel (EOC) circuit be removed from service either conditionally, by waiting for it to become idle, or unconditionally, by preempting the current user. This message is applicable for TR303 RTs (that is, AT&T Series 5 RTs running Feature Package 303G) terminating on an digital networking unit - synchronous optical network (DNU-S).

WARNING: Use of the UCL parameter may cause any calls/communication in progress to be terminated.

2. FORMAT

RMV:DNUSEOC=a-b-c-d[,UCL];

3. EXPLANATION OF MESSAGE

UCL = Unconditionally execute the removal. Any calls/communication in progress using this circuit may be terminated.

a = Switching module (SM) number.

b = DNU-S number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

c = RT number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

d = EOC number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

NG = No good. The request has been denied. The message is valid but the request conflicts with current status.

PF = Printout follows. Followed by the RMV:DNUSEOC output message.

RL = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

Input Message(s):
RMV:DNUSTMC

Software Release: 5E14 and later  
Command Group: SM  
Application: 5  
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Requests that a remote terminal (RT) timeslot management channel (TMC) circuit be removed from service either conditionally, by waiting for it to become idle, or unconditionally, by preempting the current user. This message is applicable for TR303 RTs (that is, AT&T Series 5 RTs running Feature Package 303G) terminating on an digital networking unit - synchronous optical network (DNU-S).

WARNING: Use of the UCL parameter may cause any calls/communication in progress to be terminated.

2. FORMAT

RMV:DNUSTMC=a-b-c-d[,UCL];

3. EXPLANATION OF MESSAGE

UCL  =    Unconditionally execute the removal. Any calls/communication in progress using this circuit may be terminated.

a   =    Switching module (SM) number.

b   =    DNU-S number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

c   =    RT number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

d   =    TMC number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

PF   =    Printout follows. Followed by the RMV:DNUSTMC output message.

NG   =    No good. The request has been denied. The message is valid but the request conflicts with current status.

RL   =    Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

Input Message(s):
Output Message(s):
RMV : DNUSTMC

Input Appendix(es):
APP : RANGES

Other Manual(s):
235-105-110 System Maintenance Requirements and Tools
235-105-220 Corrective Maintenance

MCC Display Page(s):
1660,xxxx (TR303 REMOTE TERMINAL)
RMV:DS1

Software Release: 5E16(1) and later
Command Group: SM
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Requests that a digital signal - level 1 (DS1) be removed from service either conditionally, by waiting for it to become idle, or unconditionally, by preempting the current user.

WARNING: Unconditional removal of a facility may result in loss of calls.

2. FORMAT

RMV:DS1=a-b-c-d-e-f-g[,UCL];

3. EXPLANATION OF MESSAGE

<table>
<thead>
<tr>
<th>UCL</th>
<th>= Unconditionally execute the removal.</th>
</tr>
</thead>
<tbody>
<tr>
<td>a</td>
<td>= Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.</td>
</tr>
<tr>
<td>b</td>
<td>= Optical interface unit (OIU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.</td>
</tr>
<tr>
<td>c</td>
<td>= Protection group (PG) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.</td>
</tr>
<tr>
<td>d</td>
<td>= Optical carrier - level 3 (OC3) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.</td>
</tr>
<tr>
<td>e</td>
<td>= Synchronous transport signal - level 1 (STS1) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.</td>
</tr>
<tr>
<td>f</td>
<td>= Virtual tributary level 1.5 (VT15) group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.</td>
</tr>
<tr>
<td>g</td>
<td>= VT15 member number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.</td>
</tr>
</tbody>
</table>

4. SYSTEM RESPONSE

| NG           | = No good. The message form is valid, but the request conflicts with current status. |
| PF           | = Printout follows. Followed by the RMV:DS1 output message. |
| RL           | = Retry later. The request cannot be executed now due to unavailable system resources. |
5. REFERENCES

Input Message(s):

ABT:DS1
RST:DS1
STP:DS1

Output Message(s):

RMV:DS1

Input Appendix(es):

APP:RANGES

Other Manual(s):
235-105-110  System Maintenance Requirements and Tools
235-105-220  Corrective Maintenance

MCC Display Page(s):
1492  OIU STS1 STATUS
RMV:DS1SFAC
Software Release: 5E14 and later
Command Group: SM
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Requests that a digital networking unit - synchronous optical network (DNU-S) digital signal level 1 facility (DS1SFAC) be removed from service.

WARNING: An unconditional removal of a DS1SFAC will result in preempting stable calls.

For a very compact digital exchange (VCDX) switching module (SM) with common channel signaling (CCS7) access on a packet switching unit (PSU), a DS1SFAC can be conditionally removed only if any CCS signaling data links (SDLs) on this facility are manually removed first, or if the SDL parent CCS links (CCSLKs) are manually deactivated. In addition, an unconditional (UCL) removal of a DS1SFAC may impact CCS operations.

2. FORMAT

RMV:DS1SFAC=a-b-c-d-e-f-g[,UCL];

3. EXPLANATION OF MESSAGE

UCL = Executes removal unconditionally.

a = Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

b = Digital Networking Unit - SONET (DNU-S) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

c = Data group (DG) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

d = SONET Termination Equipment (STE) facility number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

e = Synchronous transport signal (STS) facility number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

f = Virtual tributary group (VTG) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

g = Virtual tributary member (VTM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE
NG = No good. The message form is valid, but the request conflicts with current status.

PF = Printout follows. Followed by the RMV:DS1SFAC output message.

RL = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

Input Message(s):

ABT:DS1SFAC
RST:DS1SFAC
STP:DS1SFAC

Output Message(s):

RMV:DS1SFAC

Input Appendix(es):

APP:RANGES

Other Manual(s):
235-105-110 System Maintenance Requirements and Tools
235-105-220 Corrective Maintenance
235-190-120 Common Channel Signaling Services Features

MCC Display Page(s):

1511 (DNUS STS MAINTENANCE)
RMV: DSC

Software Release: 5E14 and later
Command Group: SM
Application: 5,3B
Type: Input

1. PURPOSE
Requests that a digital service circuit (DSC) be removed from service.

2. FORMAT
RMV: DSC=a-b-c-d[,UCL];

3. EXPLANATION OF MESSAGE

UCL = Execute the removal unconditionally.

a = Switching module number.

b = Digital service unit number. Refer to the APP: RANGES appendix in the Appendixes section of the Input Messages manual.

c = Service group number. Refer to the APP: RANGES appendix in the Appendixes section of the Input Messages manual.

d = Digital service unit board position number. Refer to the APP: RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

NG = No good. The request has been denied. The message form is valid, but the request conflicts with current status.

PF = Printout follows.

RL = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

Output Message(s):
RMV: TTFCOM
RMV: UCONF
RMV: UTD
RMV: UTG

Input Appendix(es):
APP: RANGES
1. PURPOSE

Requests that a specified direct user interface (DUI) be removed device from service.

2. FORMAT

RMV:DUI=a;

3. EXPLANATION OF MESSAGE

a = Member number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

PF = Printout follows. Followed by the RMV:DUI output message.

5. REFERENCES

Input Message(s):

DGN:DUIC
RMV:DUIC
RST:DUI
RST:DUIC

Output Message(s):

DGN:DUIC
RMV:DUI
RMV:DUIC
RST:DUI
RST:DUIC

Input Appendix(es):

APP:RANGES

Other Manual(s):
235-105-220 Corrective Maintenance
RMV:DUIC

Software Release: 5E14 and later
Command Group: AM
Application: 5,3B
Type: Input

1. PURPOSE
Requests that the specified direct user interface controller (DUIC) be removed from service.

2. FORMAT
RMV:DUIC=a;

3. EXPLANATION OF MESSAGE
a = Member number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE
PF = Printout follows. Followed by the RMV:DUIC output message.

5. REFERENCES
Input Message(s):
- DGN:DUIC
- DGN:IOP
- RMV:IOP
- RST:DUIC
- RST:IOP

Output Message(s):
- DGN:DUIC
- DGN:IOP
- RMV:DUIC
- RMV:IOP
- RST:DUIC
- RST:IOP

Input Appendix(es):
- APP:RANGES

Other Manual(s):
235-105-220 Corrective Maintenance
RMV:EAN

Software Release: 5E14 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Requests that an equipment access network (EAN) be removed from service.

2. FORMAT

RMV:EAN=a-b[,UCL];

3. EXPLANATION OF MESSAGE

UCL = Unconditionally execute the removal.
a = Switching module number.
b = Directly connected test unit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

NG = No good. The request has been denied. The message form is valid, but the request conflicts with current status.
PF = Printout follows. Followed by the RMV:EAN output message.
RL = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

Output Message(s):
   RMV:EAN

Input Appendix(es):
   APP:RANGES
RMV:EC1STE

Software Release: 5E14 and later
Command Group: SM
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Requests that a digital networking unit - Electrical Carrier Level 1 SONET Termination equipment facility (EC1STE) be removed from service.

WARNING: An unconditional removal of an EC1STE will result in preemption of stable calls.

For a very compact digital exchange (VCDX) switching module (SM) with common channel signaling (CCS7) access on a packet switching unit (PSU), an EC1STE can be conditionally removed only if any CCS signaling data links (SDLs) on child facilities are manually removed first, or if the SDL parent CCS links (CCSLKs) are manually deactivated. In addition, an unconditional (UCL) removal of an EC1STE may impact CCS operations.

2. FORMAT

RMV:EC1STE=a-b-c-d[,UCL];

3. EXPLANATION OF MESSAGE

UCL = Executes removal unconditionally.

a = Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

b = Digital Networking Unit - SONET (DNU-S) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

c = Data group (DG) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

d = SONET Termination Equipment (STE) facility number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

NG = No good. The message form is valid, but the request conflicts with current status.

PF = Printout follows. Followed by the RMV:EC1STE output message.

RL = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES
Input Message(s):

ABT:EC1STE
RST:EC1STE
STP:EC1STE

Output Message(s):

RMV:EC1STE

Input Appendix(es):

APP:RANGES

Other Manual(s):
235-105-110  System Maintenance Requirements and Tools
235-105-220  Corrective Maintenance
235-190-120  Common Channel Signaling Services Features

MCC Display Page(s):

1510 (DNUS STATUS)
RMV:FAC

Software Release: 5E14 and later
Command Group: SM
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Requests removal of a remote switching module (RSM) facility (FAC) or a trunk FAC from service.

An RSM FAC can be a host-remote facility between a host switching module (HSM) and an RSM, or a remote facility between two RSMs. A trunk FAC is an inter-office trunk.

WARNING: FAC containing packet pipe (PP) or packet pipe member (PPM) can not be removed conditionally. Doing so may result in the FAC being marked as degraded. An unconditional (UCL) remove input message is needed to remove FAC with PP or PPM. For a very compact digital exchange (VCDX) switching module (SM) with common channel signaling (CCS7) access on a packet switching unit (PSU), a FAC can be conditionally removed only if any CCS signaling data links (SDLs) on this facility are manually removed first, or if the SDL parent CCS links (CCSLKs) are manually deactivated. In addition, an unconditional (UCL) removal of a FAC may impact CCS operations.

2. FORMAT

RMV:FAC=a-b-c-d[,UCL];

3. EXPLANATION OF MESSAGE

UCL = Remove the circuit unconditionally. This will disconnect stable calls.

a = Switching module (SM) number.

b = Digital line and trunk unit (DLTU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

c = RSM digital facilities interface (RDFI), inter-RSM communication link digital facilities interface (CDFI), or inter-office trunk digital facilities interface (DFI) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

d = FAC number. The FAC number is the T1 facility number on a RDFI, CDFI, or DFI. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

NG = No good. The message syntax is valid, but the request conflicts with current system or equipment status.

- NOT STARTED UNIT IN GROWTH STATE = The unit is in a transient state. It is not available at this time.

- SM DOES NOT EXIST = The message syntax is valid, but the SM requested does not exist.

- SM UNEQUIPPED = The message syntax is valid, but the SM is unequipped.
UNIT DOES NOT EXIST = The message syntax is valid, but the unit does not exist.

PF = Printout follows. A RMV:FAC output message follows in response to the request.

RL = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

Input Message(s):
RST:FAC

Output Message(s):
RMV:FAC

Input Appendix(es):
APP:RANGES

Other Manual(s):
235-105-220 Corrective Maintenance
235-190-120 Common Channel Signaling Services Features
RMV:FPC

Software Release: 5E14 and later
Command Group: CM
Application: 5
Type: Input

1. PURPOSE
Requests that the specified foundation peripheral controller (FPC) be removed from service.

2. FORMAT
RMV:FPC=a;

3. EXPLANATION OF MESSAGE

a = FPC number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

NG = No good. The message form is valid, but the request conflicts with current status.
PF = Printout follows. Followed by the RMV:FPC message.
RL = Retry later. The request cannot be executed now.

5. REFERENCES

Output Message(s):

RMV:FPC

Input Appendix(es):

APP: RANGES
RMV:GDSF
Software Release: 5E14 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE
Requests that a global digital services function (GDSF) circuit be removed from service.

2. FORMAT
RMV:GDSF=a-b [,UCL];

3. EXPLANATION OF MESSAGE

UCL = Executes the removal unconditionally. This will preempt users in the process of making a call

a = Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

b = GDSF number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

PF = Printout follows. Followed by the RMV:GDSF output message.

RL = Retry later.

5. REFERENCES

Input Message(s):
RST:GDSF

Output Message(s):
RMV:GDSF

Input Appendix(es):
APP:RANGES
RMV:GDSUCOM

Software Release: 5E14 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Requests that a global DSU common (GDSUCOM) board be removed from service.

2. FORMAT

RMV:GDSUCOM=a-b-c[,UCL];

3. EXPLANATION OF MESSAGE

  UCL = Execute the removal unconditionally.
  a  = Switching module number.
  b  = Global digital service unit number.
  c  = Service group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

  NG = No good. The request has been denied. The message form is valid, but the request conflicts with current status.
  PF = Printout follows. Followed by the RMV:GDSUCOM output message.
  RL = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

Output Message(s):

RMV:GDSUCOM

Input Appendix(es):

APP: RANGES
**RMV:GDXACC**

**Software Release:** 5E14 and later  
**Command Group:** SM  
**Application:** 5  
**Type:** Input

### 1. PURPOSE

Requests that a GDX access (GDXACC) be removed from service.

### 2. FORMAT

```
RMV:GDXACC=a-b-c[,UCL];
```

### 3. EXPLANATION OF MESSAGE

- **UCL** = Execute the removal unconditionally.  
- **a** = Switching module number.  
- **b** = Line unit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.  
- **c** = Service group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

### 4. SYSTEM RESPONSE

- **NG** = No good. The request has been denied. The message form is valid, but the request conflicts with current status.  
- **PF** = Printout follows. Followed by the RMV:GDXACC output message.  
- **RL** = Retry later. The request cannot be executed now due to unavailable system resources.

### 5. REFERENCES

**Output Message(s):**  
RMV:GDXACC

**Input Appendix(es):**  
APP:RANGES
RMV:GDXC

Software Release: 5E14 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE
Requests that a gated diode crosspoint compensator (GDXC) be removed from service.

2. FORMAT
RMV:GDXC=a-b-c-d[,UCL];

3. EXPLANATION OF MESSAGE

UCL = Execute the removal unconditionally.
a = Switching module number.
b = Metallic service unit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
c = Service group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
d = Metallic service unit board position number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

NG = No good. The request has been denied. The message form is valid, but the request conflicts with current status.

PF = Printout follows. Followed by the RMV:GDXC output message.

RL = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

Output Message(s):
RMV:GDXC

Input Appendix(es):
APP:RANGES
RMV:GDXCON

Software Release: 5E14 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Requests that a gated diode crosspoint control (GDXCON) be removed from service.

2. FORMAT

RMV:GDXCON=a-b-c [,UCL];

3. EXPLANATION OF MESSAGE

UCL = Execute the removal unconditionally.

a = Switching module number.

b = Line unit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

c = Service group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

NG = No good. The request has been denied. The message form is valid, but the request conflicts with current status.

PF = Printout follows. Followed by the RMV:GDXCON output message.

RL = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

Output Message(s):

   RMV:GDXCON

Input Appendix(es):

   APP:RANGES
RMV:GQPHPIPE

Software Release: 5E16(2) and later
Command Group: MTCE
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Requests that a general quad-link packet switch protocol handler (GQPH) QPIPE be removed from service unconditionally.

WARNING: The unconditional parameter is a required field. SIP services in the office may be impaired by this action.

2. FORMAT

RMV:GQPHPIPE=a-b-c-d-e,UCL;

3. EXPLANATION OF MESSAGE

UCL = Execute removal unconditionally.

a = Global switching module (GSM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

b = Packet switch unit (PSU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

c = PSU shelf number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

d = GQPH channel group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

e = QLPS network number (0 or 1, or a range 0&&1 for GQPH QPIPEs on both networks). Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

NG = No good. May also include:
   - NOT A GSM = This response indicates that the input GSM (part of the GQPH QPIPE specification) is not a provisioned GSM.
   - SM UNEQUIPPED = This response indicates that the input GSM (part of the GQPH QPIPE specification) is not even an equipped SM.

PF = The request has been accepted. A RMV GQPHPIPE output message will follow specifying the results of the request.

RL = Retry later. May also include:
- **GSM NOT AVAILABLE** = This response indicates that the input GSM (part of the GQPH QPIPE specification) is not available, because it is isolated or undergoing an initialization.

5. REFERENCES

Output Message(s):

RMV: GQPHPIPE

Input Appendix(es):

APP: RANGES

RC/V View(s):

17.24 GQPH QPIPE ASSIGNMENT
RMV:GRC
Software Release: 5E14 and later
Command Group: RCV
Application: 5
Type: Input

1. PURPOSE
Requests that the specified global recent change (GRC) job be removed from the switch. This input message deletes every file and directory associated with the job.

2. FORMAT
RMV:GRC, NAME=a;

3. EXPLANATION OF MESSAGE

a = GRC name (up to 10 characters).

4. SYSTEM RESPONSE

PF = Printout follows. The request was accepted. If the remove operation successfully completes, a GRC:STATUS output message follows. If it fails, a GRC:ERROR output message follows.

NG = No good. The request was denied. A GRC:ERROR output message follows with an explanation of the problem.

5. REFERENCES

Input Message(s):
SCHED: GRC

Output Message(s):
GRC: ERROR
GRC: STATUS

Other Manual(s):
Where ‘x’ is the release-specific version of the document.

235-070-100 Administration and Engineering Guidelines
235-118-251 Recent Change Procedures
235-118-25x Recent Change reference
RMV:GRID

Software Release: 5E14 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Requests that a gated diode crosspoint grid (GRID) be removed from service.

2. FORMAT

RMV:GRID=a-b-c[,UCL];

3. EXPLANATION OF MESSAGE

UCL = Execute the removal unconditionally.

a = Switching module number.

b = Line unit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

c = Grid number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

NG = No good. The request has been denied. The message form is valid, but the request conflicts with current status.

PF = Printout follows. Followed by the RMV:GRID output message.

RL = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

Output Message(s):

RMV:GRID

Input Appendix(es):

APP:RANGES
RMV:GRIDBD

Software Release: 5E14 and later
Command Group: SM
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Requests that a line unit model 2 (LU2) or line unit model 3 (LU3) grid board be removed from service.

WARNING: Removing a grid board unconditionally will result in the cutoff of stable calls.

2. FORMAT

RMV:GRIDBD=a-b-c-d[,UCL];

3. EXPLANATION OF MESSAGE

UCL = Execute the removal unconditionally, dropping all stable calls.

a = Switching module number.

b = Line unit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

c = Grid number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

d = Board number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

NG = No good. The request has been denied. The message form is valid, but the request conflicts with current status.

PF = Printout follows. Followed by the RMV:GRIDBD output message.

RL = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

Output Message(s):

RMV:GRIDBD

Input Appendix(es):
RMV:HDFI

Software Release: 5E14 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Requests that a host switching module (HSM) digital facilities interface (HDFI) circuit be removed from service.

2. FORMAT

RMV:HDFI=a-b-c[,UCL];

3. EXPLANATION OF MESSAGE

UCL = Remove the circuit unconditionally. This option will disconnect stable inter-module calls.

a = Switching module number.

b = Digital line and trunk unit (DLTU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

c = HDFI number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

NG = No good. Request denied because of a conflict with current status.

PF = Printout follows. Followed by the RMV:HDFI output message.

5. REFERENCES

Input Message(s):

RST:HDFI

Output Message(s):

RMV:HDFI

Input Appendix(es):

APP:RANGES
RMV:HSD

Software Release: 5E14 and later
Command Group: AM
Application: 5,3B
Type: Input

1. PURPOSE
Requests that the specified high-speed synchronous data link (HSD) subdevice be removed from service.

2. FORMAT
RMV:HSD=a;

3. EXPLANATION OF MESSAGE

a = Member number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

PF = Printout follows. Followed by the RMV:HSD output message.

5. REFERENCES

Input Message(s):

DGN:HSDC
RMV:HSDC
RST:HSD
RST:HSDC

Output Message(s):

DGN:HSDC
RMV:HSD
RMV:HSDC
RST:HSD
RST:HSDC

Input Appendix(es):

APP: RANGES

Other Manual(s):
235-105-220 Corrective Maintenance
RMV:HSDC

Software Release: 5E14 and later
Command Group: AM
Application: 5,3B
Type: Input

1. PURPOSE

Requests that the specified high-speed synchronous data link controller (HSDC) be removed from service.

2. FORMAT

RMV:HSDC=a;

3. EXPLANATION OF MESSAGE

a = Member number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

PF = Printout follows. Followed by the RMV:HSDC output message.

5. REFERENCES

Input Message(s):

DGN:HSDC
RMV:HSD
RST:HSD
RST:HSDC

Output Message(s):

DGN:HSDC
RMV:HSD
RMV:HSDC
RMV:HSDC
RST:HSD
RST:HSDC

Input Appendix(es):

APP: RANGES

Other Manual(s):

235-105-220 Corrective Maintenance
RMV:IDCU

Software Release: 5E14 and later
Command Group: SM
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Requests that an integrated digital carrier unit (IDCU) service group circuit be removed from service.

WARNING: An unconditional removal of an IDCU while the mate side is out-of-service (OOS) will result in a duplex failure of the IDCU.

2. FORMAT

RMV:IDCU=a-b-c[,UCL];

3. EXPLANATION OF MESSAGE

UCL  = Unconditionally execute the removal. Any calls/communication in progress using this circuit may be terminated.

a  = Switching module (SM) number.

b  = IDCU number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

c  = IDCU service group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

PF  = Printout follows. Followed by the RMV:IDCU output message.

NG  = No good. The request has been denied. The message is valid but the request conflicts with current status.

RL  = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

Input Message(s):

ABT:IDCU
STP:IDCU

Output Message(s):
RMV: IDCU

Input Appendix(es):

APP : RANGES

Other Manual(s):
235-105-110 System Maintenance Requirements and Tools
235-105-220 Corrective Maintenance

MCC Display Page(s):

186 (IDCU CIRCUIT)
RMV:IDCUELI

Software Release: 5E14 and later
Command Group: SM
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Requests that an integrated digital carrier unit (IDCU) electrical line interface (ELI) circuit be removed from service unconditionally, by preempting the current user.

WARNING: The use of this input message may cause calls to be dropped on the IDCU facilities associated with the ELI being removed.

2. FORMAT

RMV:IDCUELI=a-b-c[,UCL];

3. EXPLANATION OF MESSAGE

UCL = Unconditionally execute the removal. Any calls/communication in progress using this circuit may be terminated.

a = Switching module (SM) number.

b = IDCU number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

c = ELI number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

PF = Printout follows. Followed by the RMV:IDCUELI output message.

NG = No good. The request has been denied. The message is valid but the request conflicts with current status.

RL = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

Input Message(s):

ABT:IDCUELI
STP:IDCUELI

Output Message(s):
RMV:IDCUEOC

Software Release: 5E14 and later
Command Group: SM
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Requests that a remote terminal (RT) embedded operations channel (EOC) circuit be removed from service either conditionally, by waiting for it to become idle, or unconditionally, by preempting the current user. This message is applicable for TR303 RTs (that is, AT&T Series 5 RTs running Feature Package 303G) terminating on an integrated digital carrier unit (IDCU).

WARNING: Use of the UCL parameter may cause any calls/communication in progress to be terminated.

2. FORMAT

RMV:IDCUEOC=a-b-c-d[,UCL];

3. EXPLANATION OF MESSAGE

UCL = Unconditionally execute the removal. Any calls/communication in progress using this circuit may be terminated.

a = Switching module (SM) number.

b = IDCU number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

c = RT number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

d = EOC number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

NG = No good. The request has been denied. The message is valid but the request conflicts with current status.

PF = Printout follows. Followed by the RMV:EOC output message.

RL = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

Input Message(s):
Output Message(s):

RMV: IDCUEOC

Input Appendix(es):

APP: RANGES

Other Manual(s):
235-105-110  System Maintenance Requirements and Tools
235-105-220  Corrective Maintenance

MCC Display Page(s):

1880.x.yy (IDCU REMOTE TERMINAL)
RMV:IDCUPIDB

Software Release: 5E14 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Requests that an integrated digital carrier unit (IDCU) peripheral interface data bus (PIDB) or direct PIDB (DPIDB) pair (both IDCU service groups) be removed from service.

This input message should only be used to support the growth/degrowth of an IDCU PIDB or DPIDB circuit.

2. FORMAT

RMV:IDCUPIDB=a-b-c;

3. EXPLANATION OF MESSAGE

a = Switching module (SM) number.

b = IDCU number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

c = PIDB or DPIDB pair number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

PF = Printout follows. Followed by the RMV:IDCUPIDB output message.

NG = No good. The request has been denied. The message is valid but the request conflicts with current status.

RL = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

Input Message(s):

ABT:IDCUPIDB
STP:IDCUPIDB

Output Message(s):

RMV:IDCUPIDB

Input Appendix(es):

APP:RANGES
RMV:IDCUTMC

Software Release: 5E14 and later
Command Group: SM
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Requests that a remote terminal (RT) timeslot management channel (TMC) circuit be removed from service either conditionally, by waiting for it to become idle, or unconditionally, by preempting the current user. This message is applicable for TR303 RTs (that is, AT&T Series 5 RTs running Feature Package 303G) terminating on an integrated digital carrier unit (IDCU).

WARNING: Use of the UCL parameter may cause any calls/communication in progress to be terminated.

2. FORMAT

RMV:IDCUTMC=a-b-c-d[,UCL];

3. EXPLANATION OF MESSAGE

UCL = Unconditionally execute the removal. Any calls/communication in progress using this circuit may be terminated.

a = Switching module (SM) number.

b = IDCU number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

c = RT number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

d = TMC number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

PF = Printout follows. Followed by the RMV:TMC output message.

NG = No good. The request has been denied. The message is valid but the request conflicts with current status.

RL = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

Input Message(s):
ABT: IDCUTMC
STP: IDCUTMC

Output Message(s):
RMV: IDCUTMC

Input Appendix(es):
APP: RANGES

Other Manual(s):
235-105-110  System Maintenance Requirements and Tools
235-105-220  Corrective Maintenance

MCC Display Page(s):
1880.x.yy (IDCU REMOTE TERMINAL)
RMV:IFAC

Software Release: 5E14 and later
Command Group: SM
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Requests that an integrated digital carrier unit (IDCU) digital signal level one (DS1) facility (IFAC) circuit be removed from service either conditionally, by waiting for it to become idle, or unconditionally, by preempting the current user.

WARNING: The use of this input message with the SCREEN option could result in the degradation of an IFAC, not necessarily the one indicated in the input message. It could affect a totally unrelated IFAC circuit. This option is used strictly by the page pokes on the MCC display terminal.

2. FORMAT

RMV:IFAC=a-b-c [,UCL][,SCREEN=d];

3. EXPLANATION OF MESSAGE

SCREEN = Used by MCC display poke to determine the IFACs being displayed on the MCC page.

UCL = Unconditionally execute the removal. Any calls/communication in progress using this circuit may be terminated.

a = Switching module (SM) number.

b = IDCU number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

c = IFAC number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

d = Remote terminal (RT) number.

4. SYSTEM RESPONSE

NG = No good. The request has been denied. The message is valid but the request conflicts with current status.

PF = Printout follows. Followed by the RMV:IFAC output message.

RL = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

Input Message(s):
RMV:IOP

Software Release: 5E14 and later
Command Group: AM
Application: 5,3B
Type: Input

1. PURPOSE

Requests that the specified input/output processor (IOP) and any associated peripheral controllers (PCs) be removed from service.

2. FORMAT

RMV:IOP=a;

3. EXPLANATION OF MESSAGE

a  = Member number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

PF  = Printout follows. Followed by the RMV:IOP output message.

5. REFERENCES

Input Message(s):

DGN:IOP
RST:IOP

Output Message(s):

DGN:IOP
RMV:IOP
RST:IOP

Input Appendix(es):

APP:RANGES

Other Manual(s):
235-105-220  Corrective Maintenance

MCC Display Page(s):

(COMMON PROCESSOR)
RMV:ISLUCC

**Software Release:** 5E14 and later  
**Command Group:** SM  
**Application:** 5  
**Type:** Input

**WARNING:** INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. **PURPOSE**

Requests that an integrated services line unit common controller (ISLUCC) be removed from service.

**WARNING:** An unconditional removal of an ISLUCC while mate side is out of service will result in a duplex failure of the ISLUCC.

2. **FORMAT**

RMV:ISLUCC=a-b-c[,UCL];

3. **EXPLANATION OF MESSAGE**

- **UCL** = Executes removal unconditionally.
- **a** = Switching module (SM) number.
- **b** = Integrated services line unit (ISLU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
- **c** = Common controller number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. **SYSTEM RESPONSE**

- **NG** = No good. The message form is valid, but the request conflicts with current status.
- **PF** = Printout follows. Followed by the RMV:ISLUCC output message.
- **RL** = Retry later. The request cannot be executed now due to unavailable system resources.

5. **REFERENCES**

**Output Message(s):**

RMV:ISLUCC

**Input Appendix(es):**

APP:RANGES

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MCC Display Page(s):

170x (ISLU NETWORK)
170xy (ISLU LINE GROUP)
RMV:ISLUCD
Software Release: 5E14 and later
Command Group: SM
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Requests that an integrated services line unit common data (ISLUCD) be removed from service either conditionally or unconditionally.

WARNING: An unconditional warning of an ISLUCD while mate side is out of service will result in a duplex failure of an ISLUCD.

2. FORMAT

RMV:ISLUCD=a-b-c[,CAMPON=d][,UCL];

3. EXPLANATION OF MESSAGE

UCL = Executes removal unconditionally.

a = Switching module (SM) number.

b = Integrated services line unit (ISLU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

c = Common data number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

d = Camp-on time in minutes (1-20). If CAMPON is not specified, camp-on time defaults to 6 minutes. Maximum time allowed is 20 minutes.

4. SYSTEM RESPONSE

NG = No good. The message form is valid, but the request conflicts with current status.

PF = Printout follows. Followed by the RMV:ISLUCD output message.

RL = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

Output Message(s):

RMV:ISLUCD
Input Appendix(es):

APP : RANGES

MCC Display Page(s):

170x (ISLU NETWORK)
170xy (ISLU LINE GROUP)
RMV:ISLUHLSC

**Software Release:** 5E14 and later  
**Command Group:** SM  
**Application:** 5  
**Type:** Input

1. **PURPOSE**

Requests that an integrated services line unit high level service circuit (ISLUHLSC) be removed from service.

2. **FORMAT**

RMV:ISLUHLSC=a-b-c-d[,UCL];

3. **EXPLANATION OF MESSAGE**

   - **UCL** = Executes the removal unconditionally. Any transient calls in progress on this circuit will be terminated.
   - **a** = Switching module (SM) number.
   - **b** = ISLU number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
   - **c** = ISLU service group. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
   - **d** = High level service circuit. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. **SYSTEM RESPONSE**

   - **NG** = No good. The request has been denied. The message is valid but the request conflicts with the current status.
   - **PF** = Printout follows. Followed by the RMV:ISLUHLSC output message.
   - **RL** = Retry later. The request cannot be executed now due to unavailable system resources.

5. **REFERENCES**

   **Output Message(s):**
   
   RMV:ISLUHLSC

   **Input Appendix(es):**
   
   APP:RANGES

   **MCC Display Page(s):**
170x (ISLU NETWORK)
171x (ISLU-Z)
RMV:ISLULBD

**Software Release:** 5E14 and later  
**Command Group:** SM  
**Application:** 5  
**Type:** Input

1. **PURPOSE**

Requests that an integrated services line unit line board (ISLULBD) be removed from service.

2. **FORMAT**

RMV:ISLULBD=a-b-c-d[,CAMPON=e][,UCL];

3. **EXPLANATION OF MESSAGE**

- **UCL** = Executes removal unconditionally.
- **a** = Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
- **b** = Integrated services line unit (ISLU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
- **c** = Line group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
- **d** = Line board number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
- **e** = Camp-on time in minutes (1-20). If CAMPON is not specified, camp-on time defaults to 6 minutes. Maximum time allowed is 20 minutes.

4. **SYSTEM RESPONSE**

- **NG** = No good. The message form is valid, but the request conflicts with current status.
- **PF** = Printout follows. Followed by the RMV:ISLULBD output message.
- **RL** = Retry later. The request cannot be executed now due to unavailable system resources.

5. **REFERENCES**

**Output Message(s):**

RMV:ISLULBD

**Input Appendix(es):**

APP:RANGES
1. PURPOSE

Requests that an integrated services line unit line card (ISLULC) be removed from service.

2. FORMAT

RMV:ISLULC=a-b-c-d[,CAMPON=e][,UCL];

3. EXPLANATION OF MESSAGE

UCL = Executes removal unconditionally.

a = Switching module (SM) number.

b = Integrated services line unit (ISLU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

c = Line group controller number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

d = Line card number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

e = Camp-on time in minutes (1-20). If CAMPON is not specified, camp-on time defaults to 6 minutes. Maximum time allowed is 20 minutes.

4. SYSTEM RESPONSE

NG = No good. The message form is valid, but the request conflicts with current status.

PF = Printout follows. Followed by the RMV:ISLULC output message.

RL = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

Output Message(s):

RMV:ISLULC

Input Appendix(es):

APP: RANGES
MCC Display Page(s):

170x (ISLU NETWORK)
170xy (ISLU LINE GROUP)
**RMV:ISLULCKT**

**Software Release:** 5E14 and later  
**Command Group:** SM  
**Application:** 5  
**Type:** Input

1. **PURPOSE**

Requests that an integrated services line unit line circuit (ISLULCKT) be removed from service.

2. **FORMAT**

RMV:ISLULCKT=a-b-c-d-e[,CAMPON=f] [,UCL];

3. **EXPLANATION OF MESSAGE**

<table>
<thead>
<tr>
<th>UCL</th>
<th>= Executes removal unconditionally.</th>
</tr>
</thead>
<tbody>
<tr>
<td>a</td>
<td>= Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.</td>
</tr>
<tr>
<td>b</td>
<td>= Integrated services line unit (ISLU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.</td>
</tr>
<tr>
<td>c</td>
<td>= Line group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.</td>
</tr>
<tr>
<td>d</td>
<td>= Line board number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.</td>
</tr>
<tr>
<td>e</td>
<td>= Line circuit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.</td>
</tr>
<tr>
<td>f</td>
<td>= Camp-on time in minutes (1-20). If CAMPON is not specified, camp-on time defaults to 6 minutes. Maximum time allowed is 20 minutes.</td>
</tr>
</tbody>
</table>

4. **SYSTEM RESPONSE**

| NG | = No good. The message form is valid, but the request conflicts with current status. |
| PF | = Printout follows. Followed by the RMV:ISLULCKT output message. |
| RL | = Retry later. The request cannot be executed now due to unavailable system resources. |

5. **REFERENCES**

**Output Message(s):**

RMV:ISLULCKT

**Input Appendix(es):**
RMV:ISLULG

Software Release: 5E14 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Requests that an integrated services line unit line group (ISLULG) be removed service.

2. FORMAT

RMV:ISLULG=a-b-c[,CAMPON=d][,UCL];

3. EXPLANATION OF MESSAGE

UCL = Executes removal unconditionally.

a = Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

b = Integrated services line unit (ISLU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

c = Line group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

d = Camp-on time in minutes (1-20). If CAMPON is not specified, camp-on time defaults to 6 minutes. Maximum time allowed is 20 minutes.

4. SYSTEM RESPONSE

NG = No good. The message form is valid, but the request conflicts with current status.

PF = Printout follows. Followed by the RMV ISLULG output message.

RL = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

Output Message(s):

RMV:ISLULG

Input Appendix(es):

APP:RANGES

MCC Display Page(s):
170x (ISLU NETWORK)
170xy (ISLU LINE GROUP)
RMV:ISLULGC

Software Release: 5E14 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE
Requests that an integrated services line unit line group controller (ISLULGC) be removed service.

2. FORMAT
RMV:ISLULGC=a-b-c[,CAMPON=d][,UCL];

3. EXPLANATION OF MESSAGE

UCL = Executes removal unconditionally.
a = Switching module (SM) number.
b = Integrated services line unit (ISLU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
c = Line group controller number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
d = Camp-on time in minutes (1-20). If CAMPON is not specified, camp-on time defaults to 6 minutes. Maximum time allowed is 20 minutes.

4. SYSTEM RESPONSE

NG = No good. The message form is valid, but the request conflicts with current status.
PF = Printout follows. Followed by the RMV:ISLULGC output message.
RL = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

Output Message(s):
RMV:ISLULGC

Input Appendix(es):
APP:RANGES

MCC Display Page(s):
170x (ISLU NETWORK)
170xy (ISLU LINE GROUP)
RMV:ISLUMAN

Software Release: 5E14 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE
Requests that an integrated services line unit metallic access network (ISLUMAN) be removed from service.

2. FORMAT
RMV:ISLUMAN=a-b-c-d[,UCL];

3. EXPLANATION OF MESSAGE

UCL = Execute the removal unconditionally. Any transient calls in progress on this circuit will be terminated.

a = Switching module (SM) number.

b = ISLU number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

c = ISLU service group. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.


4. SYSTEM RESPONSE

NG = No good. The request has been denied. The message is valid but the request conflicts with the current status.

PF = Printout follows. Followed by the RMV:ISLUMAN output message.

RL = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

Output Message(s):

RMV:ISLUMAN

Input Appendix(es):

APP:RANGES

MCC Display Page(s):
170x (ISLU NETWORK)
171x (ISLU-Z)
**RMV:ISLUPIDB**

**Software Release:** 5E14 and later  
**Command Group:** SM  
**Application:** 5  
**Type:** Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. **PURPOSE**

Requests that an integrated services line unit peripheral interface data bus (ISLUPIDB) pair be removed from service. The removal can be done conditionally or unconditionally. If the removal is conditional, it camps on any traffic on the peripheral interface data bus (PIDB) pair. If the removal is unconditional, it preempts the current user.

WARNING: Stable calls will be affected if the UCL option is used.

2. **FORMAT**

RMV:ISLUPIDB=a-b-c[,CAMP=d][,UCL];

3. **EXPLANATION OF MESSAGE**

- **UCL** = Execute removal unconditionally.
- **a** = Switching module number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
- **b** = Integrated services line unit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
- **c** = Peripheral interface data bus number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
- **d** = Maximum number of minutes of campon time allowed. If CAMP is not specified, camp on defaults to 6 minutes. Maximum time allowed is 20 minutes. This option is valid only on conditional requests.

4. **SYSTEM RESPONSE**

- **NG** = No good. The request has been denied. The message form is valid, but the request conflicts with current status.
- **PF** = Printout follows. The request was accepted. Followed by the RMV:ISLUPIDB output message.
- **RL** = Retry later. The request cannot be executed now due to unavailable system resources.

5. **REFERENCES**

Input Message(s):

RST:ISLUPIDB
Output Message(s):

RMV:ISLUPIDB
RST:ISLUPIDB

Input Appendix(es):

APP:RANGES
RMV:ISLURG
Software Release: 5E14 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE
Requests that an integrated services line unit ringing generator (ISLURG) be removed from service.

2. FORMAT
RMV:ISLURG=a-b-c[,UCL];

3. EXPLANATION OF MESSAGE

UCL = Execute the removal unconditionally. Any transient calls in progress using this circuit will be terminated.

a = Switching module (SM) number.

b = ISLU number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

c = ISLU service group of RG. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

NG = No good. The request has been denied. The message is valid but the request conflicts with the current status.

PF = Printout follows. Followed by the RMV:ISLURG output message.

RL = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

Output Message(s):
RMV:ISLURG

Input Appendix(es):
APP:RANGES

MCC Display Page(s):
170x (ISLU NETWORK)
171x (ISLU-Z)
RMV:ISMNAIL

Software Release: 5E14 and later
Command Group: TRKLN
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Removes an inter-SM (switching module) nailup (ISMNAIL), which is used to support packet transport between two SMs.

WARNING: Use of the unconditional option can be service affecting, that is, stable packet traffic can be disrupted.

2. FORMAT

RMV:ISMNAIL,DLT=a-b,MATEDLT=c-d[,UCL];

3. EXPLANATION OF MESSAGE

UCL = Option to remove ISMNAIL unconditionally, regardless of the effect upon packet transport. The default is to allow the ISMNAIL removal, only if there is an alternate nailup between the same pair of SMs to accept active packet calls.

a = SM number (may be the SM associated with either end of the ISMNAIL).

b = Data link terminal (DLT) number associated with the SM. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

c = Mate SM number (the other SM associated with the ISMNAIL).

d = DLT number associated with the mate SM. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

NG = No good. May also include:
- SM ## NOT IN THE ISM NETWORK = The request has been denied. Either the source or the mate SM or both have no ISMNAILs associated with it.
- SAME SM AND MATESM SPECIFIED = The source and mate SM numbers are the same. This is an invalid condition.

PF = Printout follows. The request has been accepted. Followed by the RMV:ISMNAIL-SD output message.

5. REFERENCES
Output Message(s):

RMV: ISMNAIL-SD

Input Appendix(es):

APP: RANGES
RMV:ISTF

Software Release: 5E14 and later
Command Group: SM
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Requests that an integrated services test function (ISTF) unit be removed from service.

WARNING: If the RMV input message is used with the ‘UCL’ option, the current customers will be preempted.

2. FORMAT

RMV:ISTF=a-b[,UCL];

3. EXPLANATION OF MESSAGE

UCL = Executes the removal unconditionally. This will preempt users in the process of making a call.

a = Switching module (SM) number.

b = ISTF unit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

NG = No good. The request has been denied because it conflicts with current equipment status.
- SM DOES NOT EXIST = The requested SM does not exist in the system.
- SM UNEQUIPPED = The SM specified in the request is unequipped.
- UNIT DOES NOT EXIST = The requested unit does not exist in the system.

PF = Printout follows. The request has been accepted. Followed by the RMV:ISTF output message.

RL = Retry later. The request cannot be executed now due to unavailable system resources. The message may be entered again later.

5. REFERENCES

Input Message(s):

RST:ISTF

Output Message(s):

RMV:ISTF
Input Appendix(es):

APP: RANGES
RMV:IWGFAC

Software Release: 5E15 and later
Command Group: SM
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Requests that an inter-working gateway facility (IWGFAC) be removed from service.

WARNING: Use of the UCL parameter may cause any calls/communication in progress to be terminated.

2. FORMAT

RMV:IWGFAC=a-b-c[,UCL];

3. EXPLANATION OF MESSAGE

UCL = Unconditionally execute the removal. Any calls/communication in progress using this circuit may be terminated.

a = Switch module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

b = Inter-working gateway (IWG) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

c = Inter-working gateway facility (IWGFAC) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

NG = No good. The request has been denied. The message is valid but the request conflicts with current status.

PF = Printout follows. Followed by the RMV:IWGFAC output message.

RL = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

Input Message(s):

ABT:IWGFAC
STP:IWGFAC
RST:IWGFAC

Output Message(s):
RMV: IWGFAC

Input Appendix(es):
APP: RANGES

MCC Display Page(s):
1340,y (IWG)

Other Manual(s):
235-105-110 System Maintenance Requirements and Tools
235-105-220 Corrective Maintenance
RMV:IWGLI

Software Release: 5E15 and later
Command Group: SM
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE
Requests that an inter-working gateway link interface (IWGLI) be removed from service.

WARNING: Use of the UCL parameter may cause any calls/communication in progress to be terminated.

2. FORMAT
RMV:IWGLI=a-b-c-d[,CAMPON=e]-[,UCL];

3. EXPLANATION OF MESSAGE

UCL = Unconditionally execute the removal. Any calls/communication in progress using this circuit may be terminated.

a = Switch module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

b = Inter-working gateway (IWG) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

c = Data group (DG) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

d = Inter-Working gateway link interface (IWGLI) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

e = Camp-on time in minutes (0-20). The maximum time allowed is 20 minutes.

4. SYSTEM RESPONSE

NG = No good. The request has been denied. The message is valid but the request conflicts with current status.

PF = Printout follows. Followed by the RMV:IWGLI output message.

RL = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES
Input Message(s):

ABT:IWGLI
STP: IWGLI
RST: IWGLI

Output Message(s):
RMV: IWGLI

Input Appendix(es):
APP: RANGES

MCC Display Page(s):
1340.y (IWG)

Other Manual(s):
235-105-110 System Maintenance Requirements and Tools
235-105-220 Corrective Maintenance
RMV:IWUFAC

Software Release: 5E16(1) and later
Command Group: SM
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Requests that an inter-working unit facility (IWUFAC) be removed from service.

WARNING: Use of the UCL parameter may cause any calls/communication in progress to be terminated.

2. FORMAT

RMV:IWUFAC=a-b-c[,UCL];

3. EXPLANATION OF MESSAGE

UCL = Unconditionally execute the removal. Any calls/communication in progress using this circuit may be terminated.

a = Switch module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

b = Inter-working unit (IWU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

C = Inter-working unit facility (IWUFAC) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

NG = No good. The request has been denied. The message is valid but the request conflicts with current status.

PF = Printout follows. Followed by the RMV:IWUFAC output message.

RL = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

Input Message(s):

ABT:IWUFAC
STP:IWUFAC
RST:IWUFAC

Output Message(s):
RMV:LDSF

Software Release: 5E14 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE
Requests that a local digital services function (LDSF) circuit be removed from service.

2. FORMAT
RMV:LDSF=a-b [,UCL];

3. EXPLANATION OF MESSAGE

UCL = Executes the removal unconditionally. This will preempt users in the process of making a call
a = Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
b = LDSF number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

PF = Printout follows. Followed by the RMV:LDSF output message.
RL = Retry later.

5. REFERENCES

Input Message(s):
RST:LDSF

Output Message(s):
RMV:LDSF

Input Appendix(es):
APP:RANGES
RMV:LDSU

Software Release: 5E14 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Requests that a local digital services unit model 2 (LDSU2) board be removed from service.

2. FORMAT

RMV:LDSU=a-b-c[,UCL];

3. EXPLANATION OF MESSAGE

UCL = Executes the removal unconditionally. This will preempt users in the process of making a call.

a = Switching module (SM) number.

b = LDSU number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

c = Service group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

PF = Printout follows. Followed by the RMV:LDSU output message.

RL = Retry later.

5. REFERENCES

Input Message(s):

RST:LDSU

Output Message(s):

RMV:LDSU

Input Appendix(es):

APP:RANGES
**RMV:LDSUCOM**

**Software Release:** 5E14 and later  
**Command Group:** SM  
**Application:** 5  
**Type:** Input

1. **PURPOSE**

Requests that a local digital services unit common (LDSUCOM) board be removed from service.

The preempt will be executed only if the office out-of-service limit is not exceeded by this remove request. The office out-of-service limit for LDSUCOMs is 50% of the totally equipped LDSUCOMs.

2. **FORMAT**

RMV:LDSUCOM=a-b-c[,UCL];

3. **EXPLANATION OF MESSAGE**

   **UCL** = Executes the removal of the LDSUCOM board unconditionally unless removing it will result in a loss of call processing.
   
   **a** = Switching module number.
   
   **b** = Local digital service unit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
   
   **c** = Service group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. **SYSTEM RESPONSE**

   **NG** = No good. The request has been denied. The message form is valid, but the request conflicts with current status.
   
   **PF** = Printout follows. Followed by the RMV:LDSUCOM output message.
   
   **RL** = Retry later. The request cannot be executed now due to unavailable system resources.

5. **REFERENCES**

Output Message(s):

RMV:LDSUCOM

Input Appendix(es):

APP : RANGES
RMV:LINE

**Software Release:** 5E14 and later
**Command Group:** TRKLN
**Application:** 5
**Type:** Input

### 1. PURPOSE

Requests that a line be removed from service by the addition of a specified out-of-service (OOS) status.

If the line is in service at the time of the request, the OOS status will be added and it will be restricted accordingly. If the line is already OOS, the OOS status will be added to the line in its proper place in the hierarchy, if possible. Up to four independent OOS conditions can exist simultaneously on a line. Refer to the APP:PORT-STATUS appendix for a more detailed explanation of statuses that apply to lines. If the line is traffic busy when the request is made, it will be camped on for up to 20 minutes unless an unconditional removal is requested or a camp-on time limit of 0 is specified. If a camp-on is started, a REPT:CAMPON output message will be generated. The camp-on can then be terminated by a STP:CAMPON input message, if desired. If removed unconditionally, the line is preempted and all stable calls in progress on the line are torn down. An OOS condition on a line may be deleted using the RST:LINE input message.

### 2. FORMAT

[1] RMV:LINE,(DN=a|PKTDN=a)[-u],[,CH=b],[,CAMPON=c|,UCL]:w,x,y[,z];

[2] RMV:LINE,j 1[,CH=b],[,CAMPON=c|,UCL]:w,x,y[,z];

### 3. EXPLANATION OF MESSAGE

Refer to the Acronym section of the Input Messages manual for the full expansion of acronyms shown in the format.

- **UCL** = Remove the line(s) unconditionally. This action will disconnect stable calls.
- **a** = The directory number of the line.
- **b** = Channel identifier [D (default), B1, or B2]. Used only for digital subscriber lines (DSLs).

If this option is not specified or if the D-channel is specified, the D-channel and all on-demand service B-channels will be removed from service, but permanent packet B-channels will not be removed. If a B-channel is specified, only that B-channel will be removed from service.

The channel identifier is ignored for Operator Services Position System (OSPS) digital subscriber lines (DSLs) serving basic services terminals (BSTs) and operator position terminals (OPTs). For BST and OPT DSLs, the entire DSL will be removed from service even if only the D-channel or a B-channel is specified in the input request.

A modem pool member consists of an analog line and a DSL. They are identified by the same multi-line hunt group member number (MLHG). For Format 4, if the channel is not specified and the MLHG specified is a modem pool group, by default, the analog side is selected for removal. To remove DSL side of the member the channel should be set explicitly to D. Whenever the DSL (multi-point DSL) is removed the corresponding analog line(s) of the modem pool member will also be removed from service with "OOS MTCE FE MPOOS AUTO" status.

- **c** = Camp-on time limit in minutes (0-1438). A camp-on time limit of 0 indicates that no camp-on will be performed if the line is traffic busy.
d = Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

e = Integrated services line unit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

f = Line group controller number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

g = Line card number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

h = Remote terminal (RT) number or IDCU digital signal level 1 (DS1) serving PUB43801 number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

i = Line unit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

j = Grid number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

k = Switch board number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

l = Switch number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual. Not required if the switch board equals ALL.

m = Level number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual. Not required if the switch board equals ALL.

n = Multi-line hunt group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

o = Hunt group member number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

q = Digital carrier line unit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

r = RT number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

s = RT line number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

t = IDCU number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

u = Member number of the multi-line hunt group (MLHG) or line time slot bridging (LTSB) line. For MLHG the DN specified must be the main DN for the group and the member number specifies which member of the group will be removed. For LTSB a member number of 1 will remove the lead line and a member number of 2 will remove the associate line. If no member number is specified, for 1-DN LTSB, the lead line and the associate line will both be removed. If no member number is specified, for 2-DN LTSB, the line associated with the DN entered will be removed.

v = RT line number or PUB43801 channel. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
section of the Input Messages manual.

Status subfields are always separated by a single comma, even if in-between statuses are omitted (as in OOS, DSBLD).

\[ w \] = Basic state. Valid value(s):

- \textbf{OOS} = Out-of-service (default).

\[ x \] = Qualifier (choose one or omit). Valid value(s):

- \textbf{MKBUSY} = Make busy. If variable \( w \) is not specified, it will be defaulted to OOS.
- \textbf{MTCE} = Maintenance (default). If variable \( w \) is not specified, it will be defaulted to OOS.
- \textbf{PPSRV} = Pre-post service. If variable \( w \) is not specified, it will be defaulted to OOS.
- \textbf{TMT} = Traffic management. If variable \( w \) is not specified, it will be defaulted to OOS.

\[ y \] = Operational restrictions (choose one or omit). Valid value(s):

- \textbf{DSBLD} = Disabled. If variable \( x \) is not specified, it will be defaulted to MTCE (default).
- \textbf{PLGUP} = Plug-up (no effect). If variable \( x \) is not specified, it will be defaulted to MTCE.
- \textbf{PX} = Power cross. If variable \( x \) is not specified, it will be defaulted to MTCE.
- \textbf{RAP} = Recorded announcement port. If variable \( x \) is not specified, it will be defaulted to MTCE.

If the entire port status is omitted the status will default to OOS, MTCE, and DSBLD. If a status sub-field is entered without entering the previous sub-field, the default values indicated will be assumed.

\[ z \] = Supplementary information (choose one or omit). This field is used to record the reason for removal. Valid value(s):

- \textbf{AML} = Automatic maintenance limit.
- \textbf{AUDIT} = Audit detected problem.
- \textbf{CAMA} = Central automatic message accounting.
- \textbf{CAROT} = Centralized automatic reporting on trunks.
- \textbf{CDI} = Control and data interface.
- \textbf{CKT} = Circuit.
- \textbf{CTTU} = Central trunk testing unit.
- \textbf{DFI} = Digital facility interface.
- \textbf{FORPOT} = Foreign potential.
- \textbf{GRD} = Ground fault.
- \textbf{GRID} = Line unit grid.
- \textbf{IAA} = Ineffective attempt analysis.
- \textbf{ISLU} = Integrated services line unit.
- \textbf{MPP} = Modem-pool problem.
- \textbf{PCTF} = Per-call test failure.
- \textbf{PPM} = Periodic pulse metering.
- \textbf{PSU} = Packet switch unit.
- \textbf{REX} = Routine exercise.
- \textbf{RO} = Routine other.
ROTFL  = Operational trouble.
SCC    = Switching control center.
SPARED = Line involved in ISLU sparing configuration.
TEST   = In test mode.
TICOM  = Treated interface common circuit.
TRBL   = Unspecified trouble.
TRBLORG= Origination trouble.
TRKBD  = Trunk board.
TRKCT  = Trunk circuit.

a = Line group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
b = Line board number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
c = Line circuit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
d = Access interface unit (AIU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
e = AIU pack number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
f = AIU circuit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
g = Digital network unit - synchronous optical network (SONET) (DNU-S) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
h = Virtual analog line number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
i = Virtual BRI line number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
j = Equipment numbers: Valid value(s):
    AIUEN=d-d^1-e^1-f^1
    ILEN=d-t-h-v
    INEN=d-g^1-h-s
    LCEN=d-e-f-g
    LCKEN=d-e-a^1-b^1-c^1
    LEN=d-i-j-k
    MLHG=n-o
    SLEN=d-q-r-s
    VANA=d-h^1
    VBRI=d-i^1

4. SYSTEM RESPONSE
PF  = Printout follows. The request has been accepted. Followed by the RMV:LINE output message.
RL  = Retry later. The request has been denied, probably due to system load.

5. REFERENCES

Input Message(s):

OP:ST-LI
RMV:TRK
RST:LINE
STP:CAMPON

Output Message(s):

REPT:CAMPON
RMV:LINE

Input Appendix(es):

APP:RANGES

Output Appendix(es):

APP:PORT-STATUS
RMV:LN

Software Release: 5E14 and later
Command Group: CCS
Application: 5,CNI
Type: Input

1. PURPOSE

Requests that the specified link node (LN) be removed from service. The removal is conditional upon having the link facility inactive. To override this condition, refer to the FRMV:LN input request.

If the LN major state is active (ACT) or initialization (INIT), an attempt is made to remove the LN from service. If successful, the LN major state is changed to out-of-service (OOS) and the node itself is placed in the quarantine state. Success depends on the signaling link state being inactive and the associated signaling link being not-in-service.

If the LN major state is other than ACT or INIT, no system action is performed.

When a node is manually removed, it becomes the responsibility of the user to restore the node to service. This is true even if the node had earlier been placed in the OOS state due to automatic system action.

2. FORMAT

RMV:LNa=b;

3. EXPLANATION OF MESSAGE

a  = Ring node (RN) group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

b  = Node position in the RN group. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

PF  = Printout follows.

5. REFERENCES

Input Message(s):

CHG:SLK
DGN:LN
FRMV:LN
INIT:LN
RST:LN

Output Message(s):

CHG:SLK
DGN:LN
FRMV: LN
INIT: LN
RMV: LN
RST: LN

Input Appendix(es):

APP : RANGES

Other Manual(s):
235-190-120 Common Channel Signaling Service Features

MCC Display Page(s):
118 (CNI RING STATUS)
1520 (RING NODE STATUS)
1521 (SIGNALING LINK SUMMARY)
1522 (SIGNALING LINK)
RMV:LUCHAN

Software Release: 5E14 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE
Requests that a line unit channel (LUCHAN) be removed from service.

2. FORMAT
RMV:LUCHAN=a-b-c-d-e[,UCL];

3. EXPLANATION OF MESSAGE

- **UCL** = Unconditionally execute the removal.
- **a** = Switching module number.
- **b** = Line unit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
- **c** = Service group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
- **d** = Channel board number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
- **e** = Channel number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

- **NG** = No good. The request has been denied. The message form is valid, but the request conflicts with current status.
- **PF** = Printout follows. Followed by the RMV:LUCHAN output message.
- **RL** = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

Output Message(s):

RMV : LUCHAN

Input Appendix(es):

APP : RANGES
RMV:LUCHBD

Software Release: 5E14 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Requests that a line unit channel board (LUCHBD) be removed from service.

2. FORMAT

RMV:LUCHBD=a-b-c-d[,UCL];

3. EXPLANATION OF MESSAGE

UCL = Unconditionally execute the removal.

a = Switching module number.

b = Line unit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

c = Service group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

d = Channel board number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

NG = No good. The request has been denied. The message form is valid, but the request conflicts with current status.

PF = Printout follows. Followed by the RMV:LUCHBD output message.

RL = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

Output Message(s):

RMV:LUCHBD

Input Appendix(es):

APP: RANGES
RMV: LUCCMC
Software Release: 5E14 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE
Requests that a line unit common control (LUCCMC) be removed from service.

2. FORMAT
RMV: LUCCMC=a-b-c[,UCL];

3. EXPLANATION OF MESSAGE

UCL = Unconditionally execute the removal.

a = Switching module number.

b = Line unit number. Refer to the APP: RANGES appendix in the Appendixes section of the Input Messages manual.

c = Service group number. Refer to the APP: RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

NG = No good. The request has been denied. The message form is valid, but the request conflicts with current status.

PF = Printout follows. Followed by the RMV: LUCCMC output message.

RL = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

Output Message(s):
RMV: LUCCMC

Input Appendix(es):
APP: RANGES
RMV:LUHLSC

Software Release: 5E14 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Requests that a line unit high service circuit (LUHLSC) be removed from service.

2. FORMAT

RMV:LUHLSC=a-b-c-d[,UCL];

3. EXPLANATION OF MESSAGE

<table>
<thead>
<tr>
<th>UCL</th>
<th>= Unconditionally execute the removal.</th>
</tr>
</thead>
<tbody>
<tr>
<td>a</td>
<td>= Switching module number.</td>
</tr>
<tr>
<td>b</td>
<td>= Line unit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.</td>
</tr>
<tr>
<td>c</td>
<td>= Service group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.</td>
</tr>
<tr>
<td>d</td>
<td>= High level service circuit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.</td>
</tr>
</tbody>
</table>

4. SYSTEM RESPONSE

| NG | = No good. The request has been denied. The message form is valid, but the request conflicts with current status. |
| PF | = Printout follows. Followed by the RMV:LUHLSC output message. |
| RL | = Retry later. The request cannot be executed now due to unavailable system resources. |

5. REFERENCES

Output Message(s):

RMV:LUHLSC

Input Appendix(es):

APP:RANGES
RMV:MA

Software Release: 5E14 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE
Requests that a metallic access (MA) board be removed from service.

2. FORMAT
RMV:MA=a-b-c-d[,UCL];

3. EXPLANATION OF MESSAGE

UCL = Unconditionally execute the removal.
a = Switching module number.
b = Metallic service unit number.
c = Service group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
d = Metallic access board number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

NG = No good. The request has been denied. The message form is valid, but the request conflicts with current status.
PF = Printout follows. Followed by the RMV:MA output message.
RL = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES
Output Message(s):
RMV:MA

Input Appendix(es):
APP:RANGES
RMV:MAB

Software Release: 5E14 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE
Requests that the metallic access bus (MAB) be removed from service.

2. FORMAT
RMV:MAB=a-b-c-d[,UCL];

3. EXPLANATION OF MESSAGE

UCL = Execute removal unconditionally.

a = Switching module number.

b = Unit number.

c = Service group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

d = Board number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

NG = No good. The request has been denied. The message form is valid, but the request conflicts with current status.

PF = Printout follows. Output message will follow with completion status.

RL = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

Output Message(s):

RMV:MAB

Input Appendix(es):

APP: RANGES
1. PURPOSE

Requests that a module controller/time-slot interchange unit (MCTSI) be removed from service.

2. FORMAT

RMV:MCTSI=a-b[,UCL];

3. EXPLANATION OF MESSAGE

UCL = Execute the removal unconditionally. This option can only be used on the standby module controller unit.

a = Switching module number.

b = Module controller unit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

NG = No good. The request has been denied. The message form is valid, but the request conflicts with current status.

PF = Printout follows. Followed by the RMV:MCTSI output message.

RL = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

Output Message(s):

RMV:MCTSI

Input Appendix(es):

APP:RANGES
RMV:MD

Software Release: 5E14 and later
Command Group: CCS
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Removes a common channel signaling (CCS) intra-global switching module (GSM) message delivery (MD) path internal to the GSM.

The CCS intra-GSM MD path is removed by deactivating the associated protocol handler (PH) channel. Note that there is no nailed-up time slot associated with an intra-GSM MD path. On completion of the request, CCS message delivery of user part messages from the GSM processor is not possible.

Note: This input message is applicable only for PSU platform CCS7.

WARNING: The use of this input message will stop all CCS signaling on the PSU platform in the specified GSM. Use with extreme caution!

2. FORMAT

RMV:MD, SM=a, UCL;

3. EXPLANATION OF MESSAGE

UCL = The unconditional mode is required when removing an intra-GSM MD path.

a = Global switching module (GSM) number.

4. SYSTEM RESPONSE

NG = No good. May also include:
- INVALID MD PATH = The SM specified is equipped, but not a GSM.
- NO GLOBAL SM = No GSMs are provisioned in the office.
- SM NOT EQUIPPED = SM specified in the input message does not exist in the office.

PF = Printout follows. Followed by the RMV:MD output message.

RL = Retry later. May also include:
- SM NOT AVAILABLE = Command cannot be processed because the specified GSM is not accessible.

5. REFERENCES
Output Message(s):
  RMV : MD

Other Manual(s):
235-190-120 Common Channel Signaling Service Features

MCC Display Page(s):
  1530 (GLOBAL SM MESSAGE DELIVERY STATUS)
RMV:MELNK

**Software Release:** 5E14 and later  
**Command Group:** SM  
**Application:** 5  
**Type:** Input

1. **PURPOSE**

Requests that an MCTSI-based ethernet link (MELNK) be removed from service.

The UCL qualifier is required when removing the real time call detail (RTCD) MELNK if the RTCD office option is on since this action would isolate the global billing switching module (SM) from the billing collector system. For other service types, the UCL option is required to remove the last MELNK.

2. **FORMAT**

RMV:MELNK=a-b-c[,UCL];

3. **EXPLANATION OF MESSAGE**

   **UCL** = Remove unconditionally.
   **a** = SM number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
   **b** = MCTSI-based ethernet pipe (MEPIPE) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
   **c** = MELNK number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. **SYSTEM RESPONSE**

   **NG** = No good. May also include:
   - NO SUCH SM = Input command specified an SM that does not exist.
   - SM UNEQ = Input command specified an SM that is unequipped.
   - UNIT UNEQ = Input command specified an SM with no equipped MELNK.

   **RL** = Retry later. The request cannot be executed now due to unavailable system resources. May also include:
   - SM ISOLATED = Cannot communicate with requested SM.

   **PF** = Printout follows. Followed by the RMV:MELNK output message.

5. **REFERENCES**

Output Message(s):

RMV:MELNK
Input Appendix(es):

APP : RANGES

MCC Display Page(s):
1204 MELNK STATUS
RMV:MHD
Software Release: 5E14 and later
Command Group: AM
Application: 5,3B
Type: Input

1. PURPOSE
Requests that the specified moving head disk (MHD) be removed from service.

2. FORMAT
RMV:MHD=a;

3. EXPLANATION OF MESSAGE

a = Member number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

PF = Printout follows. Followed by the RMV:MHD output message.
RL = Retry later. The system is in an overload condition.

5. REFERENCES

Input Message(s):
DGN:DFC
DGN:MHD
RMV:DFC
RMV:SBUS
RST:DFC
RST:MHD
RST:SBUS

Output Message(s):
DGN:DFC
DGN:MHD
RMV:DFC
RMV:MHD
RMV:SBUS
RST:DFC
RST:MHD
RST:SBUS

Input Appendix(es):
APP : RANGES

Other Manual(s):
235-105-220  Corrective Maintenance

MCC Display Page(s):
(COMMON PROCESSOR)
123 (DISK FILE SYSTEM ACCESS)
RMV:MMP

Software Release: 5E14 and later
Command Group: CM
Application: 5
Type: Input

1. PURPOSE
Requests that the specified module message processor (MMP) be removed from service.

2. FORMAT
RMV:MMP=a-b;

3. EXPLANATION OF MESSAGE
   a = Message switch side. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
   b = MMP number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE
   NG = No good. The message form is valid but the request conflicts with current status.
   RL = Retry later. The request cannot be executed now.
   PF = Printout follows. Followed by the RMV:MMP output message.

5. REFERENCES
Output Message(s):
   RMV:MMP

Input Appendix(es):
   APP:RANGES

Other Manual(s):
235-105-250  System Recovery Procedures
RMV:MSCU

**Software Release:** 5E14 and later
**Command Group:** CM
**Application:** 5
**Type:** Input

*WARNING:* INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. **PURPOSE**

Requests that a message switch control unit (MSCU) be removed from service.

*WARNING:* The use of this input message with the unconditional option could result in the loss of transient calls. Use with extreme caution.

2. **FORMAT**

\[ \text{RMV:MSCU}=a[,\text{UCL}] ; \]

3. **EXPLANATION OF MESSAGE**

- **UCL** = Perform any CMP switches unconditionally.
- **a** = Message switch side number.

4. **SYSTEM RESPONSE**

- **NG** = No good. The request has been denied. The message syntax is valid, but the request could not be processed. Refer to the APP:CM-IM-REASON appendix in the Appendixes section of the Input Messages manual for a list of possible reasons for denying the request.
- **PF** = Printout follows. Followed by the RMV:MSCU output message.
- **RL** = Retry later. The request cannot be executed now due to unavailable system resources.

5. **REFERENCES**

**Input Message(s):**

- OP:DMQ-CM-SM
- RST:MSCU
- SW:CM

**Input Appendix(es):**

- APP:CM-IM-REASON

**Output Message(s):**
RMV: MSCU

Other Manual(s):
235-105-110  System Maintenance Requirements and Tools
235-105-220  Corrective Maintenance
235-105-250  System Recovery Procedures

MCC Display Page(s):

1240, 1250 (MSG 0/1 SUMMARY)
RMV:MSGS

Software Release: 5E14 and later
Command Group: CM
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Requests that a message switch (MSGS) be removed from service.

WARNING: The use of this input message with the unconditional option could result in the loss of transient calls. Use with extreme caution!

2. FORMAT

RMV:MSGS=a[,UCL];

3. EXPLANATION OF MESSAGE

UCL = Perform any CMP switches unconditionally.
a = Message switch side number.

4. SYSTEM RESPONSE

NG = No good. The request has been denied. The message syntax is valid, but the request could not be processed. Refer to the APP:CM-IM-REASON appendix in the Appendixes section of the Input Messages manual for a list of possible reasons for denying the request.

PF = Printout follows. Followed by the RMV:MSGS output message.

RL = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

Input Message(s):

OP:DMQ-CM-SM
RST:MSGS
SW:CMP

Output Message(s):

RMV:MSGS

Input Appendix(es):
APP: CM-IM-REASON

Other Manual(s):
235-105-220  Corrective Maintenance
235-105-250  System Recovery Procedures

MCC Display Page(s):
1240, 1250 (MSGS 0/1 SUMMARY)
RMV:MSUCOM
Software Release: 5E14 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE
Requests that a metallic service unit common (MSUCOM) board be removed from service.

2. FORMAT
RMV:MSUCOM=a-b-c[,UCL];

3. EXPLANATION OF MESSAGE

<table>
<thead>
<tr>
<th>UCL</th>
<th>a</th>
<th>b</th>
<th>c</th>
</tr>
</thead>
<tbody>
<tr>
<td>UCL</td>
<td></td>
<td></td>
<td>Execute the removal unconditionally.</td>
</tr>
<tr>
<td>a</td>
<td></td>
<td></td>
<td>Switching module number.</td>
</tr>
<tr>
<td>b</td>
<td></td>
<td></td>
<td>Metallic service unit number.</td>
</tr>
<tr>
<td>c</td>
<td></td>
<td></td>
<td>Service group number (0 or 1).</td>
</tr>
</tbody>
</table>

4. SYSTEM RESPONSE

| NG  | = No good. The request has been denied. The message form is valid, but the request conflicts with current status. |
| PF  | = Printout follows. Followed by the RMV:MSUCOM output message. |
| RL  | = Retry later. The request cannot be executed now due to unavailable system resources. |

5. REFERENCES
Output Message(s):

RMV:MSUCOM
1. PURPOSE
Requests that the specified magnetic tape (MT) device be removed from service.

2. FORMAT
RMV:MT=a;

3. EXPLANATION OF MESSAGE

a = Member number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

PF = Printout follows. Followed by the RMV:MT output message.

5. REFERENCES

Input Message(s):
RMV:MTC
RST:MT
RST:MTC

Output Message(s):
RMV:MT
RMV:MTC
RST:MT
RST:MTC

Input Appendix(es):
APP:RANGES

Other Manual(s):
235-105-220 Corrective Maintenance
RMV:MTB

Software Release: 5E14 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Requests that a metallic access test bus (MTB) be removed from service.

2. FORMAT

RMV:MTB=a-b-c-d-e[,UCL];

3. EXPLANATION OF MESSAGE

UCL = Unconditionally execute the removal.

a = Switching module number.

b = Metallic service unit number.

c = Service group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

d = Metallic access board number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

e = Metallic access test bus. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

NG = No good. The request has been denied. The message form is valid, but the request conflicts with current status.

PF = Printout follows. Followed by the RMV:MTB output message.

RL = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

Output Message(s):

RMV:MTB

Input Appendix(es):

APP: RANGES

MCC Display Page(s):
1135/1145 (MSU MA STATUS)
RMV:MTC

Software Release: 5E14 and later
Command Group: AM
Application: 5,3B
Type: Input

1. PURPOSE
Requests that the specified magnetic tape controller (MTC) and any associated magnetic tape drives be removed from service.

2. FORMAT
RMV:MTC=a;

3. EXPLANATION OF MESSAGE
a = Member number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE
PF = Printout follows. Followed by the RMV:MTC output message.

5. REFERENCES
Input Message(s):
DGN: IOP
DGN: MTC
RMV: IOP
RST: IOP
RST: MTC

Output Message(s):
DGN: IOP
DGN: MTC
RMV: IOP
RMV: MTC
RST: IOP
RST: MTC

Input Appendix(es):
APP: RANGES

Other Manual(s):
235-105-220 Corrective Maintenance
1. PURPOSE
Requests that the metallic test interconnect bus (MTIB) be removed from service.

2. FORMAT
RMV:MTIB=a[,UCL];

3. EXPLANATION OF MESSAGE

UCL = Execute removal unconditionally.

a = MTIB number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

NG = No good. The request has been denied. The message form is valid, but the request conflicts with current status.

PF = Printout follows. Output messages will follow with the completion status.

RL = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

Output Message(s):

RMV:MTIB

Input Appendix(es):

APP:RANGES
RMV:MTIBAX

Software Release: 5E14 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Requests that the metallic test interconnect bus access (MTIBAX) be removed from service.

2. FORMAT

RMV:MTIBAX=a-b-c-d[,UCL];

3. EXPLANATION OF MESSAGE

UCL = Execute removal unconditionally.

a = Switching module number.

b = Unit number.

c = Service group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

d = Board number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

NG = No good. The request has been denied. The message form is valid, but the request conflicts with current status.

PF = Printout follows. Output messages will follow with the completion status.

RL = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

Output Message(s):

RMV:MTIBAX

Input Appendix(es):

APP:RANGES
RMV:MTTY

Software Release: 5E14 and later
Command Group: AM
Application: 5,3B
Type: Input

1. PURPOSE

Requests that the specified maintenance teletypewriter (MTTY) be removed from service.

2. FORMAT

RMV:MTTY=a;

3. EXPLANATION OF MESSAGE

a = Member number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

PF = Printout follows. Followed by the RMV:MTTY output message.

5. REFERENCES

Input Message(s):

DGN:MTTYC
RST:MTTY
RST:MTTYC

Output Message(s):

DGN:MTTYC
RMV:MTTY
RMV:MTTYC
RST:MTTY
RST:MTTYC

Input Appendix(es):

APP:RANGES

Other Manual(s):
235-105-220 Corrective Maintenance

MCC Display Page(s):

(COMMON PROCESSOR)
RMV:MTTYC

Software Release: 5E14 and later
Command Group: AM
Application: 5,3B
Type: Input

1. PURPOSE

Requests that the specified maintenance teletypewriter controller (MTTYC) and all associated maintenance teletypewriters, receive-only printers, and switching control center (SCC) data link devices be removed from service.

2. FORMAT

RMV:MTTYC=a;

3. EXPLANATION OF MESSAGE

a = Member number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

PF = Printout follows. Followed by the RMV:MTTYC output message.

5. REFERENCES

Input Message(s):

DGN:IOP  
DGN:MTTYC  
RMV:IOP  
RST:IOP  
RST:MTTYC

Output Message(s):

DGN:IOP  
DGN:MTTYC  
RMV:IOP  
RMV:MTTYC  
RST:IOP  
RST:MTTYC

Input Appendix(es):

APP:RANGES

Other Manual(s):

235-105-220 Corrective Maintenance
MCC Display Page(s):

(COMMON PROCESSOR)
RMV:NCOSC-A

Software Release: 5E14 only
Command Group: CM
Application: 5
Type: Input

1. PURPOSE

Requests that a network clock 2 oscillator (NCOSC) be removed from service.

2. FORMAT

RMV:NCOSC=a;

3. EXPLANATION OF MESSAGE

a = Unit side. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

IP = In progress. The request was received at the destination and initiated.

NG = No good. The message syntax is valid, but the request conflicts with the current system or equipment status.

PF = Printout follows. Followed by the RMV:NCOSC output message.

RL = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

Input Message(s):

RST:NCOSC

Output Message(s):

REPT:NC-NWP
RMV:NCOSC

Input Appendix(es):

APP:RANGES

MCC Display Page(s):

(NETWORK CLOCK)
RMV:NCOSC-B

Software Release: 5E15 and later
Command Group: CM
Application: 5
Type: Input

1. PURPOSE

Requests that a network clock oscillator (NCOSC) be removed from service.

2. FORMAT

RMV:NCOSC=a;

3. EXPLANATION OF MESSAGE

a = Unit side. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

IP = In progress. The request was received at the destination and initiated.
NG = No good. The message syntax is valid, but the request conflicts with the current system or equipment status.
PF = Printout follows. Followed by the RMV:NCOSC output message.
RL = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

Input Message(s):
RST:NCOSC

Output Message(s):
REPT:NC-NWP
RMV:NCOSC

Input Appendix(es):
APP:RANGES

MCC Display Page(s):
1210(NETWORK CLOCK)
1211(NETWORK CLOCK REFERENCES)
1. PURPOSE
Requests that a network clock reference (NCREF) be removed from service. External references will be removed from service on both clock sides.

2. FORMAT
RMV:NCREF, (XC=a | b);

3. EXPLANATION OF MESSAGE
XC = Cross-couple reference.
a = Network clock side.
b = Network clock reference (NCREF). Valid value(s):

<table>
<thead>
<tr>
<th>NC1</th>
<th>NC2</th>
</tr>
</thead>
<tbody>
<tr>
<td>PRIM</td>
<td>Primary reference.</td>
</tr>
<tr>
<td>SEC</td>
<td>Secondary reference.</td>
</tr>
<tr>
<td>REFn</td>
<td>Reference number, n=1-8.</td>
</tr>
</tbody>
</table>

4. SYSTEM RESPONSE
NG = No good. The request has been denied. The message syntax is valid, but the request conflicts with the current system or equipment status.
PF = Printout follows. The request has been received. Followed by the RMV:NCREF output message.
RL = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES
Input Message(s):
RST:NCREF

Input Appendix(es):
APP:CM-IM-REASON

Output Message(s):
RMV:NCREF
235-105-110  System Maintenance Requirements and Tools
235-105-220  Corrective Maintenance

MCC Display Page(s):

1210 (MI/LI/NC)
1211 (NETWORK CLOCK)
RMV:NCREF-B
Software Release: 5E15 and later
Command Group: CM
Application: 5
Type: Input

1. PURPOSE

Requests that a network clock reference (NCREF) be removed from service. External references will be removed from service on both network clock (NC) sides.

2. FORMAT

RMV:NCREF, {XC=a | b [,TYPE=c [,UCL]]};

3. EXPLANATION OF MESSAGE

| XC  | = Cross-couple reference. This is only legal for NC1 and NC2. |
|     | a = Network clock side.                                    |
| b   | = Network clock reference (NCREF). Valid value(s):         |
|     | c = Reference Type. This is only legal for NC3. This is only required if the same reference number is equipped with different reference types. The values are: |
|     | 10M = 10 MHz analog clock reference.                      |
|     | 2M = 2.048 MHz analog clock reference.                    |
|     | CC = 64K Composite clock reference.                       |
|     | DGTL = Digital clock reference.                           |
|     | UCL = Applies only to REF1-REF8. Must be used to remove the last active reference. |

4. SYSTEM RESPONSE

| NG  | = No good. The request has been denied. The message syntax is valid, but the request conflicts with the current system or equipment status. |
| PF  | = Printout follows. The request has been received. Followed by the RMV:NCREF output message. |
| RL  | = Retry later. The request cannot be executed now due to unavailable system resources. |

5. REFERENCES

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Input Message(s):

    RST : NCREF

Input Appendix(es):

    APP : CM–IM–REASON
    APP : RANGES

Output Message(s):

    RMV : NCREF

Other Manual(s):

    235-105-110 System Maintenance Requirements and Tools
    235-105-220 Corrective Maintenance

MCC Display Page(s):

    1210 (NETWORK CLOCK)
    1211 (NETWORK CLOCK REFERENCES)
RMV:NLI-A

Software Release: 5E14 - 5E16(1)
Command Group: CM
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Requests a removal of a specific network link interface (NLI) from service.

Note: Automatic quad-link packet switch (QLPS) network switches may occur if the primary NLI is reconfigured/QLPSs are equipped.

WARNING: Using the unconditional (UCL) option with this message may result in lost calls. If the UCL option is not used, checks are made to see whether removing the NLI is service affecting. If the removal affects service, the request is denied.

If the UCL option is used, the NLI is removed whether it affects calls or not.

2. FORMAT

RMV:NLI=a-b-c[,UCL];

3. EXPLANATION OF MESSAGE

UCL = Remove the NLI unconditionally. This option should only be used when the NLI MUST BE removed from service and a conditional removal is denied.

a = Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

b = NLI number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

c = ONTC side number.

4. SYSTEM RESPONSE

NG = No good. The request has been denied. The message syntax is valid, but the request could not be processed. Refer to the APP:CM-IM-REASON appendix in the Appendixes section of the Input Messages manual for a list of possible reasons for denying the request.

PF = Printout follows. Followed by the RMV:NLI output message.

RL = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES
Input Message(s):

OP : DMQ-CM-SM
RST : NLI

Output Message(s):

OP : DMQ-CM
OP : DMQ-SM
RMV : NLI

Input Appendix(es):

APP : CM-IM-REASON
APP : RANGES

Other Manual(s):

235-105-110  System Maintenance Requirements and Tools
235-105-220  Corrective Maintenance
235-105-250  System Recovery Procedures

MCC Display Page(s):

1190 (MCTSI)
1200 (DLI/NLI)
RMV:NLI-B

Software Release: 5E16(2) and later
Command Group: CM
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Requests a removal of a specific network link interface (NLI) from service.

Automatic quad-link packet switch (QLPS) network switches may occur if the primary NLI is reconfigured/QLPSs are equipped.

WARNING: Using the unconditional (UCL) option with this message may result in lost calls. If the UCL option is not used, checks are made to see whether removing the NLI is service affecting. If the removal affects service, the request is denied. If the UCL option is used, the NLI is removed whether it affects calls or not.

2. FORMAT

RMV:NLI=a-b-c[,UCL|,REMAP];

3. EXPLANATION OF MESSAGE

REMAP = Removes the NLI with the remap of timeslots option. This option attempts to preserve inter-SM connections that were using the NLI being removed, by moving those connections to available timeslots on other NLIs. This option is used during the conversion or degrowth procedures for the removing of NLI's in an attempt to save calls. Cannot be used with the UCL option.

UCL = Remove the NLI unconditionally. This option should only be used when the NLI must be removed from service and a conditional removal is denied. Cannot be used with the REMAP option.

a = Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

b = NLI number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

c = ONTC side number.

4. SYSTEM RESPONSE

NG = No good. The request has been denied. The message syntax is valid, but the request could not be processed. Refer to the APP:CM-IM-REASON appendix in the Appendixes section of the Input Messages manual for a list of possible reasons for denying the request.

PF = Printout follows. Followed by the RMV:NLI output message.

RL = Retry later. The request cannot be executed now due to unavailable system resources.

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5. REFERENCES

Input Message(s):

   OP : DMQ-CM-SM
   RST : NLI

Output Message(s):

   OP : DMQ-CM
   OP : DMQ-SM
   RMV : NLI

Input Appendix(es):

   APP : CM-IM-REASON
   APP : RANGES

Other Manual(s):

235-105-110  System Maintenance Requirements and Tools
235-105-220  Corrective Maintenance
235-105-250  System Recovery Procedures

MCC Display Page(s):

1190  MCTSI
1200  DLI/NLI
RMV:OC3

Software Release: 5E16(1) and later
Command Group: SM
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Requests that an optical carrier - level 3 (OC3) be removed from service either conditionally, by waiting for it to become idle, or unconditionally, by preempting the current user.

WARNING: Removal of an active OC3 when the mate is standby will generate transient errors on the facilities.

2. FORMAT

RMV:OC3=a-b-c-d-e[,UCL];

3. EXPLANATION OF MESSAGE

UCL = Unconditionally execute the removal. If the specified OC3 is the active OC3, the parameter is required.

a = Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

b = Optical interface unit (OIU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

c = Protection group (PG) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

d = OC3 number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

e = Side number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

NG = No good. The message form is valid, but the request conflicts with current status.

PF = Printout follows. Followed by the RMV:OC3 output message.

RL = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

Input Message(s):
ABT: OC3
RST: OC3
STP: OC3

Output Message(s):

RMV: OC3

Input Appendix(es):

APP : RANGES

Other Manual(s):
235-105-110 System Maintenance Requirements and Tools
235-105-220 Corrective Maintenance

MCC Display Page(s):
1491 OIU OC3 STATUS
RMV:OC3C

Software Release: 5E16(2) and later
Command Group: SM
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Requests that an optical carrier - level 3 concatenated (OC3C) facility be removed from service either conditionally, by waiting for it to become idle, or unconditionally, by preempting the current user.

WARNING: Removal of an active OC3C when the mate is standby will generate transient errors on the facilities.

2. FORMAT

RMV:OC3C=a-b-c-d-e[,UCL];

3. EXPLANATION OF MESSAGE

UCL = Unconditionally execute the removal. If the specified OC3C is the active OC3C, the parameter is required.

a = Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

b = Optical interface unit (OIU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

c = Protection group (PG) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

d = OC3C number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

e = Side number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

NG = No good. The message form is valid, but the request conflicts with current status.

PF = Printout follows. Followed by the RMV:OC3C output message.

RL = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

Input Message(s):
ABT: OC3C
RST: OC3C
STP: OC3C

Output Message(s):
RMV: OC3C

Input Appendix(es):
APP: RANGES

Other Manual(s):
235-105-110 System Maintenance Requirements and Tools
235-105-220 Corrective Maintenance

MCC Display Page(s):
1491 OIU OC3C STATUS
RMV:OFI

Software Release: 5E16(1) and later
Command Group: SM
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE
Requests that an optical facility interface (OFI) be removed from service either conditionally, by waiting for it to become idle, or unconditionally, by preempting the current user.

WARNING: Removal of a selected OFI when the mate is active will generate transient error on the facility.

2. FORMAT
RMV:OFI=a-b-c-d[,UCL];

3. EXPLANATION OF MESSAGE

UCL = Executes removal unconditionally. If the specified OFI is the selected OFI, this parameter is required.

a = Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

b = Optical interface unit (OIU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

c = Protection group (PG) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

d = Side number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

NG = No good. The message form is valid, but the request conflicts with current status.

PF = Printout follows. Followed by the RMV:OFI output message.

RL = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES
Input Message(s):

ABT:OFI
RST:OFI
STP: OFI

Output Message(s):

RMV: OFI

Input Appendix(es):

APP: RANGES

Other Manual(s):
235-105-110 System Maintenance Requirements and Tools
235-105-220 Corrective Maintenance

MCC Display Page(s):
1490 OIU STATUS
RMV:ONTC

Software Release: 5E14 and later
Command Group: CM
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Requests that an office network and timing complex (ONTC) be removed from service.

WARNING: Using the unconditional (UCL) option with this message may result in lost calls. If the UCL option is not used, checks will be made to see if removing the ONTC side will be service affecting. If the remove will affect service, the request will be denied.

If the UCL option is used, the ONTC will be removed whether it affects calls or not. It will not, however, allow both sides to be removed (duplex failure).

2. FORMAT

RMV:ONTC=a[,UCL];

3. EXPLANATION OF MESSAGE

UCL = Remove the ONTC unconditionally. Refer to the Purpose section of this message for more details.

a = ONTC side. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

NG = No good. The request has been denied. The message syntax is valid, but the request could not be processed. Refer to the APP:CM-IM-REASON appendix in the Appendixes section of the Input Messages manual for a list of possible reasons for denying the request.

PF = Printout follows.

RL = Retry later. The request cannot be executed now because the communication module (CM) deferred maintenance queue (DMQ) is full.

5. REFERENCES

Input Message(s):

RST:ONTC
STP:ONTC

Input Appendix(es):
APP:CM-IM-REASON
APP:RANGES

Output Message(s):

RMV:ONTC
RMV:ONTCCOM

Software Release: 5E14 and later
Command Group: CM
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Requests that an office network and timing complex common unit (ONTCCOM) be removed from service and placed in the 'out of service, manual removed' (OOS MAN RMV) state. The dual link interfaces (DLIs) that are currently active below the requested ONTCCOM will be placed in an OOS family of equipment (FE) state. The DLIs currently OOS will stay in the same state.

The ONTCCOM is made up of the following entities:
- Message interface (MI).
- Network clock (NC).
- Time multiplexed switch (TMS) excluding the network control and timing links (NCTLNKs).
- Link interface (LI), which exists only in the communication module model 1 (CM1) hardware.

WARNING: Using the unconditional (UCL) option with this message may result in lost calls. If UCL option is not used, checks will be made to see whether removing the ONTC side will be service affecting. If the remove will affect service, the request would be denied.

If the UCL option is used, the ONTC will be removed whether it affects calls or not. It will not, however, allow both sides to be removed (duplex failure).

2. FORMAT

RMV:ONTCCOM=a[,UCL];

3. EXPLANATION OF MESSAGE

UCL = Remove the ONTCCOM unconditionally. This option should only be used when the DLI must be removed from service and a conditional remove is denied.

a = ONTC common side.

4. SYSTEM RESPONSE

NG = No good. The request has been denied. The message syntax is valid, but the request could not be processed. Refer to the APP:CM-IM-REASON appendix in the Appendixes section of the Input Messages manual for a list of possible reasons for denying the request.

PF = Printout follows.
RL = Retry later. The request cannot be executed now because the communication module (CM) deferred maintenance queue (DMQ) is full.

5. REFERENCES

Input Message(s):

OP : DMQ
RST : ONTCCOM

Output Message(s):

OP : DMQ-CM
OP : DMQ-SM
RMV : ONTCCOM

Input Appendix(es):

APP : CM-IM-REASON
RMV:OSCXC-A

Software Release: 5E14 only
Command Group: CM
Application: 5
Type: Input

1. PURPOSE
Requests that the network clock 2 oscillator cross-couple (OSCXC) be removed from service.

Note: The OSCXC provides the signal from a network clock oscillator (NCOSC) to the opposite network clock side. Therefore, the state of the OSCXC is dependent on the state of the NCOSC.

2. FORMAT
RMV:OSCXC=a;

3. EXPLANATION OF MESSAGE

a = Network clock side. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

NG = No good. The message syntax is valid, but the request conflicts with the current system or equipment status.

OK = Good. The request was accepted and completed.

PF = Printout follows. Followed by the RMV:OSCXC output message.

RL = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

Input Message(s):
   RST:OSCXC

Output Message(s):
   RMV:OSCXC

Input Appendix(es):
   APP:RANGES

MCC Display Page(s):
(NETWORK CLOCK)
1. PURPOSE
Requests that the network clock 2 oscillator cross-couple (OSCXC) be removed from service.

Note: The OSCXC provides the signal from a network clock oscillator (NCOSC) to the opposite network clock side. Therefore, the state of the OSCXC is dependent on the state of the NCOSC. This command is not applicable in Communication Module 3 (CM3) office.

2. FORMAT
RMV:OSCXC=a;

3. EXPLANATION OF MESSAGE
a = Network clock side. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE
NG = No good. The message syntax is valid, but the request conflicts with the current system or equipment status.
OK = Good. The request was accepted and completed.
PF = Printout follows. Followed by the RMV:OSCXC output message.
RL = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES
Input Message(s):
RST:OSCXC

Output Message(s):
RMV:OSCXC

Input Appendix(es):
APP:RANGES

MCC Display Page(s):
RMV:OSPSPORT
Software Release: 5E14 and later
Command Group: TRKLN
Application: 5
Type: Input

1. PURPOSE

Requests the removal of an operator services position system (OSPS) port (OSPSPORT) from service by placing it in the specified out-of-service (OOS) status. If no status is given, a default status (identified below) is assumed. An OSPSPORT can be identified by its type [such as autoquote establishment (AQEST) or autoquote mate analog (AQM)] and its associated external identifier parameters or by its equipment number (LCEN, LCKEN, or TEN).

If the OSPSPORT is already OOS, the OOS status will be added to the OSPSPORT in its proper place in the hierarchy, if possible. Up to four independent OOS conditions can exist simultaneously on an OSPSPORT. Refer to APP:PORT-STATUS in the Appendix section of the Output Messages manual for a more detailed explanation of statuses that apply to OSPSPORTs. If an AQEST OSPSPORT or AQM OSPSPORT is busy when the request is made, it will be camped on for up to 20 minutes unless an unconditional removal is requested or a camp-on time limit of zero is specified. If a camp-on is started, a report REPT:CAMPON output message will be generated. The camp-on can then be terminated by a STP:CAMPON input message, if desired. If removed unconditionally, the OSPSPORT is preempted and any communication in progress is torn down. When an AQM is removed from service, its associated autoquote (AQ) data link is also removed from service. Conditional removal of an AQM is not allowed if fewer than 50% of the equipped AQ data links would remain in service after the removal. If an OSPSPORT other than an AQEST or AQM is busy when the request is made, the request is denied. The corresponding RMV:OSPSPORT output message has a completion report of PORT BUSY. An OOS condition on an OSPSPORT may be deleted using the RST:OSPSPORT input message.

2. FORMAT

RMV:OSPSPORT,a[,CH=b][,CAMPON=v|,UCL][[:d][,e][,f][,g]];

3. EXPLANATION OF MESSAGE

UCL = Remove the unit unconditionally. The OSPSPORT should be preempted. All stable communication will be disconnected (traffic release).

a = Valid value(s):

| AQEST=h     | OPT=k-l |
| AQM=i-j    | TEN=m-r-s-t-u |
| BST=k-l    | XDPF=q |
| LCEN=m-n-o-p | XDPO=k |
| LCKEN=m-n-w-x-y |

b = Channel identifier [D (default), B1, or B2]. Used only for digital subscriber line (DSL) OSPSPORTs. Ignored if the item identified is not a DSL.

If this option is not specified or if the D-channel is specified, the D-channel and all on-demand service B-channels will be removed from service, but permanent packet B-channels will not be removed. If a B-channel is specified, only that B-channel will be removed from service.

The channel identifier is ignored for Operator Services Position System (OSPS) digital subscriber lines (DSLs) serving basic services terminals (BSTs) and operator position terminals (OPTs). For BST and OPT DSLs, the entire DSL will be removed from service even if only the D-channel or a B-channel is specified in the input request.
Status subfields are always separated by a single comma, even if in-between statuses are omitted (as in OOS, DSBLD).

\[ \text{d} \] = Basic state. Valid value(s):
\[ \text{OOS} \] = Out of service (default).

\[ \text{e} \] = Qualifier (choose one or omit). Valid value(s):
\[ \text{MKBUSY} \] = Make busy.
\[ \text{MTCE} \] = Maintenance (default).
\[ \text{PPSRV} \] = Pre-post service.
\[ \text{TMT} \] = Traffic management.

\[ \text{f} \] = Operational restrictions (choose one or omit). Valid value(s):
\[ \text{DSBLD} \] = Disabled (default).
\[ \text{PLGUP} \] = Plug-up (no effect).
\[ \text{PX} \] = Power cross.
\[ \text{RAP} \] = Recorded announcement port.

**NOTE:** If the entire port status is omitted the status will default to OOS, MTCE, and DSBLD. If a status sub-field is entered without entering the previous sub-field, the default values indicated will be assumed.

\[ \text{g} \] = Supplementary information (choose one or omit). Records the reason for removal. Valid value(s):
\[ \text{AML} \] = Automatic maintenance limit.
\[ \text{AUDIT} \] = Audit detected problem.
\[ \text{CAROT} \] = Centralized automatic reporting on trunks.
\[ \text{CDI} \] = Control and data interface.
\[ \text{CKT} \] = Circuit.
\[ \text{CTTU} \] = Central trunk testing unit.
\[ \text{DFI} \] = Digital facility interface.
\[ \text{FORPOT} \] = Foreign potential.
\[ \text{GRD} \] = Ground fault.
\[ \text{IAA} \] = Ineffective attempt analysis.
\[ \text{ISLU} \] = Integrated services line unit.
\[ \text{PCTF} \] = Per-call test failure.
\[ \text{PPM} \] = Periodic pulse metering.
\[ \text{PSU} \] = Packet switch unit.
\[ \text{REX} \] = Routine exercise.
\[ \text{RO} \] = Routine other.
\[ \text{ROTF} \] = Operational trouble.
\[ \text{SCC} \] = Switching Control Center.
\[ \text{SPARED} \] = Line involved in ISLU sparing configuration.
\[ \text{TICOM} \] = Treated interface common circuit.
\[ \text{TRBL} \] = Unspecified trouble.
\[ \text{TRBLORG} \] = Origination trouble.
\[ \text{TRKBD} \] = Trunk board.
\[ \text{TRKCT} \] = Trunk circuit.
h = Telephone number.

i = Data link (group) number.

j = Relative link (member) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

k = Operator service center number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

l = Relative position number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

m = Switching module (SM) number.

n = Integrated services line unit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

o = Line group controller number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

p = Line card number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

q = Force management center number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

r = Trunk unit. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

s = Service group. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

t = Channel board. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

u = Circuit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

v = Time limit specified in minutes (0-1438). A camp-on time limit of 0 indicates that no camp-on will be performed if the line is traffic busy.

w = Line group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

x = Line board number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

y = Line circuit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

PF = Printout follows. The request has been accepted and is followed by the RMV:OSPSPORT output message.

RL = Retry later. The request has been denied, probably due to system load.
5. REFERENCES

Input Message(s):

OP: STATUS
RST: OSPSPORT
STP: CAMPON

Output Message(s):

REPT: CAMPON
RMV: OSPSPORT

Input Appendix(es):

APP: RANGES

Output Appendix(es):

APP: PORT-STATUS
RMV:PAG

Software Release: 5E16(1) and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Removes call processing from a network interface on a packet access gateway (PAG).

2. FORMAT

RMV:PAG=a-b,~NETINTF=c~[,CAMPON=d]~[,UCL];

3. EXPLANATION OF MESSAGE

a = Switch module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

b = PAG component number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

c = Network interface number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

d = Time for campon. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

NG = No good. The message form is valid but the request conflicts with the current status.

PF = Printout follows. Followed by the RMV:PAG output message.

RL = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

Input Message(s):

   RST:PAG
   STP:PAG

Output Message(s):

   RMV:PAG

Input Appendix(es):

   APP:RANGES
Other Manual(s):
235-105-110  System Maintenance Requirements and Tools
235-105-220  Corrective Maintenance

MCC Display Page(s):
1342,y      PAG
RMV:PCTDX

**Software Release:** 5E14 and later  
**Command Group:** SM  
**Application:** 5  
**Type:** Input

**WARNING:** INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. **PURPOSE**

Requests that a peripheral control and timing data exchanger (PCTDX) be removed from service.

**WARNING:** Use of the UCL parameter may cause any calls/communication in progress to be terminated.

2. **FORMAT**

```
RMV:PCTDX=a-b-c[,UCL];
```

3. **EXPLANATION OF MESSAGE**

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>UCL</td>
<td>Unconditionally execute the removal. Any calls/communication in progress using this circuit may be terminated.</td>
</tr>
<tr>
<td>a</td>
<td>Switch Module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.</td>
</tr>
<tr>
<td>b</td>
<td>Peripheral control and timing data exchanger unit (PDXU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.</td>
</tr>
<tr>
<td>c</td>
<td>Peripheral control and timing data exchanger (PCTDX) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.</td>
</tr>
</tbody>
</table>

4. **SYSTEM RESPONSE**

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>NG</td>
<td>No good. The request has been denied. The message is valid but the request conflicts with current status.</td>
</tr>
<tr>
<td>PF</td>
<td>Printout follows. Followed by the RMV:PCTDX output message.</td>
</tr>
<tr>
<td>RL</td>
<td>Retry later. The request cannot be executed now due to unavailable system resources.</td>
</tr>
</tbody>
</table>

5. **REFERENCES**

**Input Message(s):**

- ABT:PCTDX
- STP:PCTDX
- RST:PCTDX

**Output Message(s):**
Input Appendix(es):

APP: RANGES

Other Manual(s):

235-105-110  System Maintenance Requirements and Tools
235-105-220  Corrective Maintenance

MCC Display Page(s):

1330.y (PDXU)
RMV:PLTLK

**Software Release:** 5E15 and later  
**Command Group:** SM  
**Application:** 5  
**Type:** Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Requests that a PCT (Peripheral Control and Timing) line and trunk unit link be removed from service.

**WARNING:** An unconditional removal of the active PLTU link while the mate side is out-of-service (OOS), will result in a PLTU duplex failure.

2. FORMAT

RMV:PLTLK=a-b-c-d[,UCL];

3. EXPLANATION OF MESSAGE

a  = Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

b  = PLTU (PCT Line and Trunk Unit) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

c  = PCT Facility Interface number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

d  = PCT Facility Interface side number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

UCL = Remove unconditionally.

4. SYSTEM RESPONSE

NG  = No good. Valid values are:
  - REASON FOR NG = The message form is valid, but the request conflicts with current status.

PF  = Printout follows. A RMV PLTLK output message follows.

RL  = Retry later. The request cannot be executed now due to unavailable system resource.

5. REFERENCES

Input Message(s):

  ABT:PLTLK  
  DGN:PLTLK
STP: PLTLK
RMV: PLTLK
SW: PLTLK

Output Message(s):

RMV: PLTLK

Input Appendix(es):

APP: RANGES

Other Manual(s):

235-105-110  System Maintenance Requirements and Tools
235-105-220  Corrective Maintenance

MCC Display Page(s):

1430 (PLTU Status page)
RMV:PMU

Software Release: 5E14 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Requests that a precision measurement unit (PMU) be removed from service.

2. FORMAT

RMV:PMU=a-b-c[,UCL];

3. EXPLANATION OF MESSAGE

UCL  = Execute the removal unconditionally.
    a  = Switching module number.
    b  = Directly connected test unit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
    c  = Circuit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

NG    = No good. The request has been denied. The message form is valid, but the request conflicts with current status.
PF    = Printout follows. Followed by the RMV:PMU output message.
RL    = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

Output Message(s):
RMV:PMU

Input Appendix(es):
APP:RANGES

Other Manual(s):
235-105-220   Corrective Maintenance
235-105-250   System Recovery Procedures
RMV:PPC

Software Release: 5E14 and later
Command Group: CM
Application: 5
Type: Input

1. PURPOSE

Requests that the specified pump peripheral controller (PPC) be removed from service.

2. FORMAT

RMV:PPC=a;

3. EXPLANATION OF MESSAGE

a = PPC number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

NG = No good. The message was invalid.

PF = Printout follows. Followed by the RMV:PPC output message.

5. REFERENCES

Output Message(s):

RMV:PPC

Input Appendix(es):

APP: RANGES
RMV:PPPLK

Software Release: 5E16(2) and later  
Command Group: SM  
Application: 5  
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Requests that an optical interface unit (OIU) point to point protocol link (PPPLK) be removed from service either conditionally, by waiting for it to become idle, or unconditionally, by preempting the current user.

WARNING: Unconditional removal of a link will result in a loss of calls on the OIU protection group (PG).

2. FORMAT

RMV:PPPLK=a-b-c-d-e[,UCL];

3. EXPLANATION OF MESSAGE

UCL = Unconditionally execute the removal.

a = Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

b = OIU number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

c = PG number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

d = Optical carrier - level 3 concatenated (OC3C) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

e = Synchronous transport signal - level 3 concatenated (STS3C) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

NG = No good. The message form is valid, but the request conflicts with current status.

PF = Printout follows. Followed by the RMV:PPPLK output message.

RL = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

Input Message(s):

ABT:PPPLK
RST: PPPLK
STP: PPPLK

Output Message(s):
RMV: PPPLK

Input Appendix(es):
APP: RANGES

Other Manual(s):
235-105-110 System Maintenance Requirements and Tools
235-105-220 Corrective Maintenance

MCC Display Page(s):
1494 OIU PKT STATUS
RMV:PROTO
Software Release: 5E14 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE
Requests that the protocol circuit (PROTO) be removed from service.

2. FORMAT
RMV:PROTO=a-b-c[,UCL];

3. EXPLANATION OF MESSAGE

UCL = Execute removal unconditionally.

a = Switching module number.

b = Unit number.

c = Service group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

NG = No good. The request has been denied. The message form is valid, but the request conflicts with current status.

PF = Printout follows. Output message will follow with completion status.

RL = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

Output Message(s):

RMV:PROTO

Input Appendix(es):

APP:RANGES
RMV:PSUCOM-A

Software Release: 5E14 - 5E15
Command Group: SM
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Requests that a packet switch unit (PSU) common controller (COM) be removed from service.

WARNING: An unconditional removal of the active PSUCOM while the mate side is out-of-service (OOS), will result in a PSUCOM duplex failure.

2. FORMAT

RMV:PSUCOM=a-b-c[-d] [,UCL];

3. EXPLANATION OF MESSAGE

<table>
<thead>
<tr>
<th>UCL</th>
<th>= Execute removal unconditionally.</th>
</tr>
</thead>
<tbody>
<tr>
<td>a</td>
<td>= Switching module (SM) number.</td>
</tr>
<tr>
<td>b</td>
<td>= PSU number (0).</td>
</tr>
<tr>
<td>c</td>
<td>= Service group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.</td>
</tr>
<tr>
<td>d</td>
<td>= Protocol handler number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.</td>
</tr>
</tbody>
</table>

4. SYSTEM RESPONSE

| NG    | = No good. The message form is valid, but the request conflicts with current status. |
| PF    | = Printout follows. Followed by the RMV:PSU output message. |
| RL    | = Retry later. The request cannot be executed now due to unavailable system resources. |

5. REFERENCES

Output Message(s):

RMV:PSU

Input Appendix(es):

APP: RANGES
MCC Display Page(s):
118x               PSU SHELF
1186              PSU NETWORK
RMV:PSUCOM-B

Software Release: 5E16(1) and later
Command Group: SM
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Requests that a packet switch unit (PSU) common controller (COM) be removed from service.

WARNING: An unconditional removal of the active PSUCOM while the mate side is out-of-service (OOS), will result in a PSUCOM duplex failure.

2. FORMAT

RMV:PSUCOM=a-b-c[-d][,UCL];

3. EXPLANATION OF MESSAGE

UCL = Execute removal unconditionally.

a = Switching module (SM) number.

b = PSU number.

c = Service group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

d = Protocol handler number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

NG = No good. The message form is valid, but the request conflicts with current status.

PF = Printout follows. Followed by the RMV:PSU output message.

RL = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

Output Message(s):

RMV:PSU

Input Appendix(es):

APP: RANGES
MCC Display Page(s):
118x,y PSU SHELF (where y=PSU number)
1186,y PSU NETWORK (where y=PSU number)
RMV:PSUPH-A

Software Release: 5E14 - 5E15
Command Group: SM
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Requests that a packet switch unit (PSU) common controller (COM) or protocol handler (PH) be removed from service.

WARNING: An unconditional removal of the active PSUCOM while the mate side is out-of-service (OOS), will result in a PSUCOM duplex failure.

An unconditional removal of an active PSUPH while no spare PSUPH is available will result in a loss of service to a channel group. An unconditional remove of an active PSUPH (except for QPHs) with a spare available will result in a hard switch of the PSUPHs resulting in a loss of calls.

Attempts to unconditionally remove a PH serving an MD or MD-ST7 channel group will be denied if no spare PH of the same hardware type exists on the shelf.

Attempts to conditionally or unconditionally remove an ACT PH supporting a QPH channel group will be allowed if a STBY PH of the same hardware type is available on the PSU shelf. If there is not a STBY PH of the same hardware type on the PSU shelf, conditional and unconditional requests to remove a QPH will be allowed if one of the following conditions are true:

- A conditional remove of a QPH will be allowed if all QPIPE(s) provisioned on that QPH channel group have been manually deactivated,
- An unconditional remove of a QPH will be allowed if the system determines that removing this QPH channel group will not cause CCS message transport to any NGSM to be severed (this is always the case if all resident QPIPECs are manually deactivated).

2. FORMAT

RMV:PSU{a}=b-c-d[-e][,UCL];

3. EXPLANATION OF MESSAGE

UCL = Execute removal unconditionally.

a = Circuit name. Valid value(s):
   COM = Common controller.
   PH  = Protocol handler.

b = Switching module (SM) number.

c = PSU number (0).
= This variable has more than one definition.

<table>
<thead>
<tr>
<th>'a'</th>
<th>'d'</th>
</tr>
</thead>
<tbody>
<tr>
<td>COM</td>
<td>Service group number.</td>
</tr>
<tr>
<td>PH</td>
<td>Shelf number.</td>
</tr>
</tbody>
</table>

Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

Protocol handler number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

NG = No good. The message form is valid, but the request conflicts with current status.

PF = Printout follows. Followed by the RMV:PSU output message.

RL = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

Output Message(s):

RMV:PSU

Input Appendix(es):

APP:RANGES

MCC Display Page(s):

118x (PSU SHELF)
1186 (PSU NETWORK)
RMV:PSUPH-B

Software Release: 5E16(1) and later
Command Group: SM
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Requests that a packet switch unit (PSU) protocol handler (PH) be removed from service.

WARNING: An unconditional removal of an active PSUPH while no spare PSUPH is available will result in a loss of service to a channel group. An unconditional remove of an active PSUPH (except for QPHs) with a spare available will result in a hard switch of the PSUPHs resulting in a loss of calls.

Attempts to unconditionally remove a PH serving an MD or MD-ST7 channel group will be denied if no spare PH of the same hardware type exists on the shelf.

Attempts to conditionally or unconditionally remove an ACT PH supporting a QPH channel group will be allowed if a STBY PH of the same hardware type is available on the PSU shelf. If there is not a STBY PH of the same hardware type on the PSU shelf, conditional and unconditional requests to remove a QPH will be allowed if one of the following conditions are true:

- A conditional remove of a QPH will be allowed if all QPIPE(s) provisioned on that QPH channel group have been manually deactivated,
- An unconditional remove of a QPH will be allowed if the system determines that removing this QPH channel group will not cause CCS message transport to any NGSM to be severed (this is always the case if all resident QPIPES are manually deactivated).

2. FORMAT

RMV:PSUPH=a-b-c-d[,UCL];

3. EXPLANATION OF MESSAGE

UCL = Execute removal unconditionally.

a = Switching module (SM) number.

b = PSU number.

c = Shelf number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

d = Protocol handler number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

NG = No good. The message form is valid, but the request conflicts with current status.
PF = Printout follows. Followed by the RMV:PSU output message.

RL = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

Output Message(s):

RMV: PSU

Input Appendix(es):

APP: RANGES

MCC Display Page(s):
118x,y PSU SHELF (where y=PSU number)
1186,y PSU NETWORK (where y=PSU number)
RMV:PSUPIDB

Software Release: 5E14 and later
Command Group: SM
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Requests that a packet switch unit (PSU) shelf peripheral interface data bus (PIDB) pair be removed from service. The purpose of this input message is to free up the traffic through the PIDB for degrowth purposes. Removal of PIDB 0 relative to the PSU shelf is not allowed. Removal of the PIDB is always unconditional.

WARNING: This input message should only be used while degrowing the PSU PIDB. Use of this input message moves traffic from one PIDB to another PIDB on the same shelf. Before executing this input message, switch maintenance personnel must ensure that remaining PIDBs have sufficient resources to support remaining traffic.

2. FORMAT

RMV:PSUPIDB=a-b-c-d;

3. EXPLANATION OF MESSAGE

a = Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

b = PSU number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

c = Shelf number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

d = PIDB number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

NG = No good. The message form is valid, but the request conflicts with current status.

PF = Printout follows. The RMV:PSUPIDB output message will follow.

RL = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

Output Message(s):

RMV:PSUPIDB
Input Appendix(es):

APP : RANGES
RMV:PSUSHLF

Software Release: 5E14 and later
Command Group: SM
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Request that a packet switch unit (PSU) shelf side be removed from service. The purpose of this command is to support conversion of a PSU shelf from using peripheral interface data bus (PIDB)s to connect to the time slot interchanger unit (TSIU) to using peripheral control and timing (PCT) link for that connection. Removal of PSU shelf side will always always require the unconditional parameter.

WARNING: This command should not be used except while converting a PSU shelf to use PCT links to interconnect to the TSI. Use of this command will cause a service degradation until the shelf conversion is complete. Because of service degradation it is recommended that shelf conversion be done during off-peak hours.

2. FORMAT

RMV:PSUSHLF=a-b-c-d,UCL;

3. EXPLANATION OF MESSAGE

UCL = Execute removal unconditionally.
    a = Switching module (SM) number.
    b = PSU number (0).
    c = PSU shelf side (0-1)
    d = PSU shelf number (0-4)

4. SYSTEM RESPONSE

NG = No good. The request has been denied. The message form is valid, but the request conflicts with current status.
PF = Printout follows. The request was accepted. Output message RMV PSUSHLF will follow.
RL = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

Output Message(s):

RMV:PSUSHLF
Input Appendix(es):

APP : RANGES
RMV:QGP

Software Release: 5E14 and later
Command Group: CM
Application: 5
Type: Input

1. PURPOSE

Request a conditional or unconditional removal of a quad-link packet switch (QLPS) gateway processor (QGP) from service.

Note 1: As part of the QGP reconfiguration, switching of the QLPS may occur.

Unless the degrow option is specified, the removal of the last QGP will be denied.

Note 2: The DEGROW option is not a valid parameter for CM3.

2. FORMAT

RMV:QGP=a-b[,UCL|,DEGROW];

3. EXPLANATION OF MESSAGE

DEGROW = Remove QGP unconditionally. This option should generally be used only for degrowth procedures, because this option will allow the removal of the last QGP if all switching module (SM)-2000s would still have communication link (CLNK) connectivity. The DEGROW option is not valid for CM3.

UCL = Remove QGP unconditionally. This request will not be honored, however, if the number of SM-2000s that do not have QLPS connectivity increases or QLNK connectivity would decrease as a result of the remove.

a = Message switch (MSGS) side number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

b = QGP number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

NG = No good. The request has been denied. The message syntax is valid, but the request could not be processed. Refer to the APP:CM-IM-REASON appendix in the Appendixes section of the Input Messages manual for a list of possible reasons for denying the request.

PF = Printout follows. Followed by the RMV:QGP output message.

RL = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

Input Message(s):
RST: QGP

Output Message(s):

RMV: QGP

Input Appendix(es):

APP: CM–IM–REASON
APP: RANGES

Other Manual(s):
235-105-110  System Maintenance Requirements and Tools
235-105-220  Corrective Maintenance
235-105-250  System Recovery Procedures

MCC Display Page(s):

1241, 1251 (MSGS COMMUNITIES)
1240, 1250 (MSGS STATUS for CM3)
1380, 1381 (QLPS NETWORK 0/1 STATUS)
1. PURPOSE

Requests a conditional or unconditional removal of a quad-link packet switch (QLPS) from service.

WARNING: The use of this input message with the unconditional option could result in the loss of transient calls. Use with extreme caution! Inappropriate use of this message may also reduce call processing capacity.

Note: The DEGROW option is not a valid parameter for CM3.

2. FORMAT

RMV:QLPS=a-b[,UCL|,DEGROW];

3. EXPLANATION OF MESSAGE

DEGROW = Perform QLPS remove truly unconditionally. Unlike the UCL option, no defensive checks are performed. Thus, this option should only be used to degrow the QLPSs; otherwise, additional switching module-2000s (SM-2000s) may lose QLPS connectivity. The DEGROW option is not valid for CM3.

UCL = Perform QLPS remove unconditionally. This request will not be honored, however, if the outcome will increase the number of SM-2000s that do not have any QLPS or QGP (if equipped) connectivity.

a = Office network and timing complex (ONTC) side number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

b = QLPS network number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

NG = No good. The request has been denied. The message syntax is valid, but the request could not be processed. Refer to the APP:CM-IM-REASON appendix in the Appendixes section of the Input Messages manual for a list of possible reasons for denying the request.

PF = Printout follows. Followed by the RMV:QLPS output message.

RL = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES
Output Message(s):

RMV: QLPS

Input Appendix(es):

APP: CM–IM–REASON
APP: RANGES

Other Manual(s):
235-105-110 System Maintenance Requirements and Tools
235-105-220 Corrective Maintenance
235-105-250 System Recovery Procedures

MCC Display Page(s):
1209 (ONTC 0&1)
1380, 1381 (QLPS NETWORK 0/1 STATUS)
RMV:QPHPIPE

Software Release: 5E15 and later
Command Group: CCS
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Requests that a quad-link packet switch protocol handler (QPH) QPIPE be removed from service unconditionally.

WARNING: The UCL construct is required. SS7 services in the office may be impaired by this action.

2. FORMAT

RMV:QPHPIPE=a-b-c-d-e,UCL;

3. EXPLANATION OF MESSAGE

UCL = Execute removal unconditionally.

a = Global switching module (GSM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

b = Packet switch unit (PSU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

c = PSU shelf number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

d = QPH channel group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

e = QLPS network number (0 or 1, or a range 0&&1 for QPH QPIPEs on both networks). Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

PF = The request has been accepted. A RMV:QPHPIPE output message will follow, specifying the results of the request.

NG - SM UNEQUIPPED = This response indicates that the input GSM (part of the QPH QPIPE specification) is not even an equipped SM.

NG - NOT A GSM = This response indicates that the input GSM (part of the QPH QPIPE specification) is not a provisioned GSM.

RL - GSM NOT AVAILABLE = This response indicates that the input GSM (part of the QPH QPIPE specification) is not available, because it is isolated or undergoing an initialization. Retry later.

5. REFERENCES

Output Message(s):
Input Appendix(es):

APP: RANGES

Other Manual(s):
235-200-116  5ESS Switch Signaling Gateway Common Channel Signaling
RMV:RAF

**Software Release:** 5E14 and later  
**Command Group:** SM  
**Application:** 5  
**Type:** Input

*WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.*

1. **PURPOSE**

Requests that a recorded announcement function (RAF) unit be removed from service.

**WARNING:** If the RMV input message is used with the 'UCL' option, the current customers will be preempted.

2. **FORMAT**

\[
RMV:RAF=a-b[,UCL] ;
\]

3. **EXPLANATION OF MESSAGE**

- **UCL** = Execute the removal unconditionally. This will preempt users in the process of making a call.
- **a** = Switching module (SM) number.
- **b** = RAF unit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. **SYSTEM RESPONSE**

- **NG** = No good. The request has been denied because it conflicts with current equipment status.  
  - **SM DOES NOT EXIST** = The requested SM does not exist in the system.  
  - **SM UNEQUIPPED** = The SM specified in the request is unequipped.  
  - **UNIT DOES NOT EXIST** = The requested unit does not exist in the system.
- **PF** = Printout follows. The request has been accepted. Followed by the RMV:RAF output message.
- **RL** = Retry later. The request cannot be executed now due to unavailable system resources. The message may be entered again later.

5. **REFERENCES**

**Input Message(s):**

*RST:RAF*

**Output Message(s):**

*RMV:RAF*
Input Appendix(es):

APP: RANGES
RMV:RAU

Software Release: 5E14 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE
Requests that a remote switching module (RSM) alarm (RAU) circuit be removed from service.

2. FORMAT
RMV:RAU=a [,UCL] ;

3. EXPLANATION OF MESSAGE

a = Switching module (SM) number.

4. SYSTEM RESPONSE

NG = No good. Request denied because of a conflict with current status.
PF = Printout follows. Followed by the RMV:RAU output message.

5. REFERENCES

Input Message(s):

RST:RAU

Output Message(s):

RMV:RAU
RMV:RCL

Software Release: 5E14 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Requests that a remote communication link (RCL) between inter-remote switching module (RSM) communication link digital facilities interface (CDFI) circuits be removed from service.

2. FORMAT

RMV:RCL=a-b-c-d[,UCL];

3. EXPLANATION OF MESSAGE

UCL   = Remove the circuit unconditionally.

a     = Switching module (SM) number.

b     = Digital line and trunk unit (DLTU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

c     = CDFI number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

d     = Facility (FAC) number. The FAC number is the T1 facility number on a CDFI. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

NG    = No good. The message syntax is valid, but the request conflicts with current system or equipment status. May be one of the following:
   - NOT STARTED UNIT IN GROWTH STATE
   - SM DOES NOT EXIST
   - SM UNEQUIPPED
   - UNIT DOES NOT EXIST

PF    = Printout follows. Followed by the RMV:RCL output message.

RL    = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

Input Message(s):

   RST:RCL
Output Message(s):

RMV : RCL

Input Appendix(es):

APP : RANGES

Other Manual(s):

235-105-220  Corrective Maintenance
RMV:RCLK

Software Release: 5E14 and later
Command Group:
Application: 5
Type: Input

1. PURPOSE
Requests that a specified remote clock (RCLK) circuit be removed from service. This request will also remove from service both the remote clock cross couples (RCXCs) and all the equipped references for the specified side of the RCLK.

2. FORMAT
RMV:RCLK=a-b[,UCL];

3. EXPLANATION OF MESSAGE
UCL = Execute unconditionally.

a = Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

b = RCLK side. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

NG = No good. May also include:
- NOT STARTED UNIT IN GROWTH STATE
- SM DOES NOT EXIST
- SM UNEQUIPPED
- UNIT DOES NOT EXIST

PF = Printout follows. Followed by the RMV:RCLK output message.

RL = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES
Input Message(s):
RST:RCLK

Output Message(s):
RMV:RCLK
RMV:RCREF
RMV:RCXC
Input Appendix(es):

APP : RANGES

MCC Display Page(s):

(RSM RCU)
RMV:RCOSC
Software Release: 5E14 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Requests that a specified remote clock oscillator (RCOSC) be removed from service. This request will also remove the remote clock oscillator cross couples (RCOXC) from service for the specified side of the RCOSC.

Note: If the oscillator is powered down, power up time is required before the restoration of the oscillator. A minimum power up time of one hour for a medium stability oscillator or 16 hours for a high stability oscillator is required.

2. FORMAT

RMV:RCOSC=a-b[,UCL];

3. EXPLANATION OF MESSAGE

UCL = Execute unconditionally.

a = Switching module (SM) number.

b = RCOSC side (0,1).

4. SYSTEM RESPONSE

NG = No good. May also include:
- NOT STARTED UNIT IN GROWTH STATE
- SM DOES NOT EXIST
- SM UNEQUIPPED
- UNIT DOES NOT EXIST

PF = Printout follows. Followed by the RMV:RCOSC output message.

RL = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

Input Message(s):
RST:RCOSC

Output Message(s):
RMV:RCOSC
RMV:RCOXC
MCC Display Page(s):

(RSM RCU)
RMV:RCOXC

Software Release: 5E14 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Requests that a specified remote clock oscillator cross couple (RCOXC) be removed from service.

2. FORMAT

RMV:RCOXC=a-b[,UCL];

3. EXPLANATION OF MESSAGE

UCL = Execute unconditionally.

a = Switching module (SM) number.

b = RCOXC side (0,1).

4. SYSTEM RESPONSE

NG = No good. May also include:
- NOT STARTED UNIT IN GROWTH STATE
- SM DOES NOT EXIST
- SM UNEQUIPPED
- UNIT DOES NOT EXIST

PF = Printout follows. Followed by the RMV:RCOXC output message.

RL = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

Input Message(s):

RMV:RCOSC
RST:RCOXC

Output Message(s):

RMV:RCOSC
RMV:RCOXC

MCC Display Page(s):

(RSM RCU)
**RMV:RCREF**

**Software Release:** 5E14 and later  
**Command Group:** SM  
**Application:** 5  
**Type:** Input

1. **PURPOSE**

Requests that a specified remote clock reference (RCREF) be removed from service.

2. **FORMAT**

RMV:RCREF=a-b[,UCL];

3. **EXPLANATION OF MESSAGE**

| UCL   | = Execute unconditionally. |
| a     | = Switching module (SM) number. |
| b     | = Equipped reference number (1-8). |

4. **SYSTEM RESPONSE**

| NG    | = No good. May also include: |
|       | - NOT STARTED UNIT IN GROWTH STATE |
|       | - SM DOES NOT EXIST |
|       | - SM UNEQUIPPED |
|       | - UNIT DOES NOT EXIST |

| PF    | = Printout follows. Followed by the RMV:RCREF output message. |

| RL    | = Retry later. The request cannot be executed now due to unavailable system resources. |

5. **REFERENCES**

**Input Message(s):**

RST:RCREF

**Output Message(s):**

RMV:RCREF

**MCC Display Page(s):**

(RSM RCU)
1. PURPOSE
Requests that a specified remote clock cross couple (RCXC) be removed from service.

2. FORMAT
RMV:RCXC=a-b[,UCL];

3. EXPLANATION OF MESSAGE

UCL = Execute unconditionally.
a = Switching module (SM) number.
b = RCXC side.

4. SYSTEM RESPONSE
NG = No good. May also include:
- NOT STARTED UNIT IN GROWTH STATE
- SM DOES NOT EXIST
- SM UNEQUIPPED
- UNIT DOES NOT EXIST

PF = Printout follows. Followed by the RMV:RCXC output message.

RL = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES
Input Message(s):
RMV:RCLK

Output Message(s):
RMV:RCLK
RMV:RCXC

MCC Display Page(s):
(RSM RCU)
**RMV:RDFI**

**Software Release:** 5E14 and later  
**Command Group:** SM  
**Application:** 5  
**Type:** Input

1. PURPOSE

Requests that a remote switching module (RSM) digital facilities interface (RDFI) circuit be removed from service.

2. FORMAT

RMV:RDFI=a-b-c[,UCL];

3. EXPLANATION OF MESSAGE

| UCL            | = Remove the circuit unconditionally. This option may affect stable calls. |
| a              | = Switching module number. |
| b              | = Digital line and trunk unit (DLTU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual. |
| c              | = RDFI number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual. |

4. SYSTEM RESPONSE

| NG          | = No good. Request denied because of a conflict with current status. |
| PF          | = Printout follows. Followed by the RMV:RDFI output message. |

5. REFERENCES

**Input Message(s):**

RST:RDFI

**Output Message(s):**

RMV:RDFI

**Input Appendix(es):**

APP:RANGES
RMV:RLI

Software Release: 5E14 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE
Requests that a remote switching module (RSM) remote link interface (RLI) circuit be removed from service.

2. FORMAT
RMV:RLI=a-b[,UCL];

3. EXPLANATION OF MESSAGE

UCL = Remove the RLI side from service unconditionally. The system can override the out-of-service state automatically if required.

a = Switching module number.

b = RLI number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

NG = No good. Request denied because of a conflict with current status.

PF = Printout follows. Followed by the RMV:RLI output message.

5. REFERENCES

Input Message(s):
  RST:RLI

Output Message(s):
  RMV:RLI

Input Appendix(es):
  APP:RANGES
RMV:ROP

Software Release: 5E14 and later
Command Group: AM
Application: 5,3B
Type: Input

1. PURPOSE

Requests that the specified receive-only printer (ROP) be removed from service.

2. FORMAT

RMV:ROP=a;

3. EXPLANATION OF MESSAGE

a = Member number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

FF = Printout follows. Followed by the RMV:ROP output message.

5. REFERENCES

Input Message(s):

DGN:MTTYC
RMV:MTTYC
RST:MTTYC
RST:ROP

Output Message(s):

DGN:MTTYC
RMV:MTTYC
RMV:ROP
RST:MTTYC
RST:ROP

Input Appendix(es):

APP: RANGES

Other Manual(s):
235-105-220 Corrective Maintenance

MCC Display Page(s):
(COMMON PROCESSOR)
RMV:RPCN

**Software Release:** 5E14 and later  
**Command Group:** CCS  
**Application:** 5  
**Type:** Input

1. **PURPOSE**

Requests that the specified ring peripheral controller node (RPCN) be removed from service. The removal is conditional upon having adequate traffic handling capacity.

If the RPCN major state is active (ACT), initialization (INIT), or standby (STBY), an attempt is made to remove the RPCN from service. If successful, the RPCN major state is changed to out-of-service (OOS) and the node itself is placed in the quarantine state. Success depends on remaining traffic handling capacity. If the RPCN major state is other than ACT, INIT, or STBY, no system action is performed. If a node is manually removed from service, it becomes the responsibility of the user to restore the node to service. This is true even if the node had earlier been placed in the OOS state due to automatic system action.

2. **FORMAT**

RMV:RPCTa=0;

3. **EXPLANATION OF MESSAGE**

a  

= Ring node (RN) group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. **SYSTEM RESPONSE**

PF  

= Printout follows.

5. **REFERENCES**

Input Message(s):

DGN:RPCN  
RST:RPCN

Output Message(s):

DGN:RPCN  
RMV:RPCN  
RST:RPCN

Input Appendix(es):

APP : RANGES

MCC Display Page(s):
118 (CNI FREAME AND CCS LINK STATUS)
RMV:RRCLK

Software Release: 5E14 and later
Command Group: SM
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Requests that a remote integrated services line unit (RISLU) remote clock circuit pack (RRCLK) be removed from service.

If the request is conditional, the system will remove the specified RRCLK side only if the mate RRCLK side is in-service [that is, active (ACT) or standby (STBY)]. If the request is unconditional the specified RRCLK side will be removed from service regardless of the state of the mate RRCLK side.

Removal of an active RRCLK side causes the currently standby side to become active.

WARNING: Unconditional removal of an RRCLK side when the mate RRCLK side is out of service will result in duplex failure of the RISLU.

2. FORMAT

RMV:RRCLK=a-b-c[,UCL][,SCREEN=d];

3. EXPLANATION OF MESSAGE

UCL = Execute removal unconditionally.

a = Switching module (SM) number.

b = RISLU number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

c = RRCLK side. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

d = Although this option is syntactically correct, it is set internally for cross checking purposes and values entered here will be ignored.

4. SYSTEM RESPONSE

NG = No good. May also include:
- CONFLICT WITH UNIT STATE
- SM DOES NOT EXIST
- SM UNEQUIPPED
- UNIT DOES NOT EXIST
PF = Printout follows. Followed by the RMV:RRCLK output message.

RL = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

Input Message(s):

RST: RRCLK

Output Message(s):

RMV: RRCLK

Input Appendix(es):

APP: RANGES

MCC Display Page(s):

145y,x (RISLU DLTU)
RMV:RT-EOC

Software Release: 5E14 and later
Command Group: SM
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Requests that a remote terminal (RT) embedded operations channel (EOC) circuit be removed from service either conditionally, by waiting for it to become idle, or unconditionally, by preempting the current user. This message is applicable for TR303 RTs (that is, Series 5 RTs running feature package 303G) terminating on an integrated digital carrier unit (IDCU) or a digital networking unit - synchronous optical network (DNU-S).

WARNING: Use of the UCL parameter may cause any calls/communication in progress to be terminated.

2. FORMAT

RMV:RT,EOC=a-b [,UCL];

3. EXPLANATION OF MESSAGE

UCL = Unconditionally execute the removal. Any calls/communication in progress using this circuit may be terminated.

a = Site identification number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

b = EOC number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

NG = No good. The request has been denied. The message is valid but the request conflicts with current status.

PF = Printout follows. Followed by the RMV:RT-EOC output message.

RL = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

Input Message(s):

ABT:RT-EOC
STP:RT-EOC

Output Message(s):
RMV: RT-EOC

Input Appendix(es):

APP: RANGES

Other Manual(s):
235-105-110 System Maintenance Requirements and Tools
235-105-220 Corrective Maintenance

MCC Display Page(s):

1880,x,yy (IDCU REMOTE TERMINAL)
1660,xxxx (TR303 REMOTE TERMINAL)
RMV:RT-TMC

Software Release: 5E14 and later
Command Group: SM
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Requests that a remote terminal (RT) timeslot management channel (TMC) circuit be removed from service either conditionally, by waiting for it to become idle, or unconditionally, by preempting the current user. This message is applicable for TR303 RTs (that is, Series 5 RTs running feature package 303G) terminating on an integrated digital carrier unit (IDCU) or a digital networking unit - synchronous optical network (DNU-S).

WARNING: Use of the UCL parameter may cause any calls/communication in progress to be terminated.

2. FORMAT

RMV:RT,TMC=a-b[,UCL];

3. EXPLANATION OF MESSAGE

UCL = Unconditionally execute the removal. Any calls/communication in progress using this circuit may be terminated.

a = Site identification number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

b = TMC number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

NG = No good. The request has been denied. The message is valid but the request conflicts with current status.

PF = Printout follows. Followed by the RMV:RT-TMC output message.

RL = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

Input Message(s):

ABT:RT–TMC
STP:RT–TMC

Output Message(s):
RMV: RT–TMC

Input Appendix(es):

APP : RANGES

Other Manual(s):
235-105-110  System Maintenance Requirements and Tools
235-105-220  Corrective Maintenance

MCC Display Page(s):

1880,x,yy (IDCU REMOTE TERMINAL)
1660,xxxx (TR303 REMOTE TERMINAL)
RMV:RTFAC

Software Release: 5E14 and later
Command Group: SM
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Requests that a remote terminal (RT) facility (FAC) circuit be removed from service either conditionally, by waiting for it to become idle, or unconditionally, by preempting the current user. This message is applicable for TR303 RTs (that is, AT&T Series 5 RTs running Feature Package 303G) terminating on a digital networking unit - synchronous optical network (DNU-S). This is an alternative way to address a remove of a DS1 facility.

WARNING: Use of the UCL parameter may cause any calls/communication in progress to be terminated.

2. FORMAT

RMV:RTFAC=a-b[, UCL];

3. EXPLANATION OF MESSAGE

UCL = Unconditionally execute the removal. Any calls/communication in progress using this circuit may be terminated.

a = Site identification number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

b = RT FAC number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

NG = No good. The request has been denied. The message is valid but the request conflicts with current status.

PF = Printout follows. Followed by the RMV:RTFAC output message.

RL = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

Input Message(s):

  ABT:RTFAC
  STP:RTFAC

Output Message(s):
1. PURPOSE

Requests that the revertive pulsing transceiver (RVPT) be removed from service.

2. FORMAT

RMV:RVPT=a-b-c-d[,UCL];

3. EXPLANATION OF MESSAGE

UCL = Execute the removal unconditionally. Any existing user of the circuit will be preempted.

a = Switching module number.

b = Unit number.

c = Service group.

d = Circuit number.

4. SYSTEM RESPONSE

NG = No good. The request has been denied. The message form is valid, but the request conflicts with current status.

PF = Printout follows. Output message will follow with completion status.

RL = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

Input Message(s):

ABT:RVPT
RST:RVPT
STP:RVPT

Output Message(s):

RMV:RVPT
RMV:SAS

- **Software Release**: 5E14 and later
- **Command Group**: SM
- **Application**: 5
- **Type**: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. **PURPOSE**

Requests that a service announcement system (SAS) unit be removed from service.

**WARNING**: If the RMV input message is used with the 'UCL' option, the current customers will be preempted.

2. **FORMAT**

```
RMV:SAS=a-b[,UCL];
```

3. **EXPLANATION OF MESSAGE**

- **UCL** = Executes the removal unconditionally. This will preempt the current users of this SAS.
- **a** = Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
- **b** = SAS unit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. **SYSTEM RESPONSE**

- **NG** = No good. The request has been denied because it conflicts with current equipment status. May also include:
  - **SM DOES NOT EXIST** = The requested SM does not exist in the system.
  - **SM UNEQUIPPED** = The SM specified in the request is unequipped.
  - **UNIT DOES NOT EXIST** = The requested unit does not exist in the system.
- **PF** = Printout follows. The request has been accepted. Followed by the RMV:SAS output message.
- **RL** = Retry later. The request cannot be executed now due to unavailable system resources. The message may be entered again later.

5. **REFERENCES**

- **Input Message(s):**
  - RST:SAS

- **Output Message(s):**
RMV: SAS

Input Appendix(es):

APP: RANGES
RMV:SBUS
Software Release: 5E14 and later
Command Group: AM
Application: 5,3B
Type: Input

1. PURPOSE

Removes the specified SCSI bus (SBUS) connected to a SCSI disk file controller (DFC). The message also removes any moving head disk (MHD) attached to the specified SCSI bus from service.

2. FORMAT

RMV:SBUS=a;

3. EXPLANATION OF MESSAGE

a = Member number. Use the OP:DFC or MHD:INFO message or the disk file system access page (DAP) to determine the member number of this SBUS unit. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

PF = Printout follows. Followed by the RMV:SBUS output message.

5. REFERENCES

Input Message(s):

OP:DFC-INFO
RMV:DFC
RMV:MHD

Output Message(s):

OP:MHD-INFO
RMV:DFC
RMV:MHD
RMV:SBUS
RST:DFC
RST:MHD
RST:SBUS

Input Appendix(es):

APP:RANGES

MCC Display Page(s):
123 (DISK FILE SYSTEM ACCESS)
RMV:SCAN

Software Release: 5E14 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Requests that a scan point board (SCAN) be removed from service.

2. FORMAT

RMV:SCAN=a-b-c-d[,UCL];

3. EXPLANATION OF MESSAGE

UCL = Execute the removal unconditionally.

a = Switching module (SM) number.

b = Metallic service unit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

c = Service group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

d = Scan point board number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

NG = No good. The request has been denied. The message form is valid, but the request conflicts with current status.

PF = Printout follows. Followed by the RMV:SCAN output message.

RL = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

Output Message(s):

RMV:SCAN

Input Appendix(es):

APP:RANGES
RMV:SCC

Software Release: 5E14 and later
Command Group: AM
Application: 5,3B
Type: Input

1. PURPOSE

Requests that the specified Switching Control Center (SCC) data link subdevice be removed from service.

Note: The mate unit of the specified SCC data link subdevice must be in service.

2. FORMAT

RMV:SCC=a;

3. EXPLANATION OF MESSAGE

a = Member number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

PF = Printout follows. Followed by the RMV:SCC output message.

5. REFERENCES

Input Message(s):

DGN:MTTYC
RMV:MTTYC
RST:MTTYC
RST:SCC

Output Message(s):

DGN:MTTYC
RMV:MTTYC
RMV:SCC
RST:MTTYC
RST:SCC

Input Appendix(es):

APP:RANGES

Other Manual(s):
235-105-220 Corrective Maintenance
MCC Display Page(s):

(COMMON PROCESSOR)
RMV:SCSDC

Software Release: 5E14 and later
Command Group: AM
Application: 5,3B
Type: Input

1. PURPOSE

Requests that the specified scanner and signal distributor controller (SCSDC) be removed from service.

2. FORMAT

RMV:SCSDC=a;

3. EXPLANATION OF MESSAGE

a  = Member number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

PF  = Printout follows. Followed by the RMV:SCSDC output message.

5. REFERENCES

Input Message(s):

DGN:IOP
DGN:SCSDC
RMV:IOP
RST:IOP
RST:SCSDC

Output Message(s):

DGN:IOP
DGN:SCSDC
RMV:SCSDC
RMV:SCSDC
RST:IOP
RST:SCSDC

Input Appendix(es):

APP:RANGES

Other Manual(s):
235-105-220  Corrective Maintenance
RMV:SCTP

**Software Release:** 5E16(2) and later  
**Command Group:** SM  
**Application:** 5  
**Type:** Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Requests the removal of a stream control transmission protocol (SCTP) by endpoint or association.

Format 1 allows for the state change to the near endpoint to **OOS MAN** and its associations to closed state.

Format 2 allows for the state change to the association specified to **CLOSED MAN**.

**WARNING:** Using the **UCL** option could be service-affecting causing the shut down of traffic.

2. FORMAT

[1] RMV:SCTP,ENDPT=a[,UCL];

[2] RMV:SCTP,ASSOC=b[,UCL];

3. EXPLANATION OF MESSAGE

**NOTE:** Refer to the Acronym section of the Input Messages manual for the full expansion of acronyms shown in the format.

**UCL** = Execute the removal unconditionally. All stable calls will be disconnected (traffic release). For packet switching trunks, the UCL option overrides the check for the maintenance limit.

**a** = Endpoint name to be removed from service. This is a character string \(<=20\) that is provisioned on RC/V View 33.19 (SCTP NEAR END POINT).

**b** = Association number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

**NG** = No good. The request has been denied. May also include:
- DATABASE ERROR = Unrecoverable database error has occurred.
- INTERNAL ERROR = Undetermined errors, possibly a software error. This response may be accompanied by an assert.
- INVALID ASSOCIATION ID = The association number entered was not valid.
- INVALID NEAR ENDPOINT NAME = The near endpoint name entered was not valid.

**PF** = Printout follows. The request has been accepted. Followed by the RMV:SCTP output message.
RL = Retry later. May also include:
- AM OVERLOAD = AM is in overload.
- SM INACCESSIBLE = SM is not available (for example, isolation, initialization, and so forth).
- SYSTEM ERROR = The system is probably in overload due to too many requests. The
  OP:JOBSTATUS input message can be used to determine if the RL was because
  the maximum number of jobs are active.

5. REFERENCES

Input Message(s):

   OP:JOBSTATUS
   OP:ST-SCTP
   STP:ST-SCTP

Output Message(s):

   RMV:SCTP

Input Appendix(es):

   APP:RANGES

RC/V View(s):

   33.19     SCTP NEAR END POINT
RMV:SDFI

Software Release: 5E14 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Requests that a SLC®96 digital facility interface (SDFI) be removed from service.

2. FORMAT

RMV:SDFI=a-b-c[,UCL];

3. EXPLANATION OF MESSAGE

UCL = Executes removal unconditionally, dropping stable calls.

a = Switching module (SM) number.

b = Digital carrier line unit (DCLU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

c = SDFI number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

NG = No good. The request has been denied. The message form is valid, but the request conflicts with current status.

PF = Printout follows. The request was accepted. Followed by the RMV:SDFI output message.

RL = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

Output Message(s):

RMV:SDFI
RST:SDFI
STP:SDFI

Input Appendix(es):

APP:RANGES

MCC Display Page(s):

(DCLU)
(RT)
RMV:SDL

Software Release: 5E14 and later
Command Group: AM
Application: 5,3B
Type: Input

1. PURPOSE
Request that the specified synchronous data link (SDL) subdevice be removed from service.

2. FORMAT
RMV:SDL=a;

3. EXPLANATION OF MESSAGE
a = Member number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE
PF = Printout follows. Followed by the RMV:SDL output message.

5. REFERENCES
Input Message(s):
- DGN:SDLC
- RMV:SDLC
- RST:SDL
- RST:SDLC

Output Message(s):
- DGN:SDLC
- RMV:SDL
- RMV:SDLC
- RST:SDL
- RST:SDLC

Input Appendix(es):
- APP:RANGES

Other Manual(s):
235-105-220 Corrective Maintenance
RMV:SDLC

Software Release: 5E14 and later
Command Group: AM
Application: 5,3B
Type: Input

1. PURPOSE
Requests that the specified synchronous data link controller (SDLC) be removed from service.

2. FORMAT

RMV:SDLC=a;

3. EXPLANATION OF MESSAGE

\(a\) = Member number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

\(PF\) = Printout follows. Followed by the RMV:SDLC output message.

5. REFERENCES

Input Message(s):
- DGN:SDLC
- RMV:SDL
- RST:SDL
- RST:SDLC

Output Message(s):
- DGN:SDLC
- RMV:SDL
- RMV:SDLC
- RST:SDL
- RST:SDLC

Input Appendix(es):
- APP:RANGES

Other Manual(s):
- 235-105-220 Corrective Maintenance
RMV:SFI

Software Release: 5E14 and later
Command Group: SM
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Requests that a digital networking unit - synchronous optical network (DNU-S) synchronous transport signal electrical interface (STSX-1) facility interface (SFI) be removed from service.

WARNING: A removal of an active SFI while the mate SFI is in standby will generate transient errors on the facilities.

An unconditional removal of an active SFI while the mate SFI is out of service, will result in a duplex failure of the SFI, disrupting service for the entire data group.

2. FORMAT

RMV:SFI=a-b-c-d[,UCL];

3. EXPLANATION OF MESSAGE

UCL = Executes removal unconditionally.

a = Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

b = DNU-S number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

c = Data group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

d = STSX-1 facility interface number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

NG = No good. The message form is valid, but the request conflicts with current status.

PF = Printout follows. Followed by the RMV:SFI output message.

RL = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

Input Message(s):
ABT: SFI
RST: SFI
STP: SFI

Output Message(s):
RMV: SFI

Input Appendix(es):
APP: RANGES

Other Manual(s):
235-105-110  System Maintenance Requirements and Tools
235-105-220  Corrective Maintenance

MCC Display Page(s):
1510 (DNUS STATUS)
RMV:SLIM

Software Release: 5E14 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Requests that a subscriber line instrument measurement (SLIM) board be removed from service.

2. FORMAT

RMV:SLIM=a-b-c-d[,UCL];

3. EXPLANATION OF MESSAGE

UCL = Execute the removal unconditionally.
a = Switching module (SM) number.
b = Metallic service unit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
c = Service group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
d = SLIM board number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

NG = No good. The request has been denied. The message form is valid, but the request conflicts with current status.

PF = Printout follows. The RMV:SLIM output message will follow.

RL = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

Output Message(s):

RMV: SLIM

Input Appendix(es):

APP: RANGES
RMV:STS1

Software Release: 5E16(1) and later
Command Group: SM
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Requests that a synchronous transport signal - level 1 (STS1) be removed from service either conditionally, by waiting for it to become idle, or unconditionally, by preempting the current user.

WARNING: Unconditional removal of a facility may result in loss of calls.

2. FORMAT

RMV:STS1=a-b-c-d-e[,UCL];

3. EXPLANATION OF MESSAGE

UCL = Unconditionally execute the removal.

a = Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

b = Optical interface unit (OIU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

c = Protection group (PG) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

d = Optical carrier - level 3 (OC3) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

e = STS1 number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

NG = No good. The message form is valid, but the request conflicts with current status.

PF = Printout follows. Followed by the RMV:STS1 output message.

RL = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

Input Message(s):
ABT: STS1
RST: STS1
STP: STS1

Output Message(s):
RMV: STS1

Input Appendix(es):
APP: RANGES

Other Manual(s):
235-105-110 System Maintenance Requirements and Tools
235-105-220 Corrective Maintenance

MCC Display Page(s):
1492 OIU STS1 STATUS
**RMV:STS3C**

**Software Release:** 5E16(2) and later  
**Command Group:** SM  
**Application:** 5  
**Type:** Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. **PURPOSE**

Requests that a synchronous transport signal - level 3 concatenated (STS3C) facility be removed from service either conditionally, by waiting for it to become idle, or unconditionally, by preempting the current user.

**WARNING:** Unconditional removal of a facility will result in a loss of calls on the optical interface unit (OIU) protection group (PG).

2. **FORMAT**

RMV:STS3C=a-b-c-d-e[,UCL];

3. **EXPLANATION OF MESSAGE**

   **UCL** = Unconditionally execute the removal. This parameter is required.

   **a** = Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

   **b** = OIU number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

   **c** = PG number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

   **d** = Optical carrier - level 3 concatenated (OC3C) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

   **e** = STS3C number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. **SYSTEM RESPONSE**

   **NG** = No good. The message form is valid, but the request conflicts with current status.

   **PF** = Printout follows. Followed by the RMV:STS3C output message.

   **RL** = Retry later. The request cannot be executed now due to unavailable system resources.

5. **REFERENCES**

Input Message(s):
ABT: STS3C
RST: STS3C
STP: STS3C

Output Message(s):
RMV: STS3C

Input Appendix(es):
APP: RANGES

Other Manual(s):
235-105-110 System Maintenance Requirements and Tools
235-105-220 Corrective Maintenance

MCC Display Page(s):
1491 OIU OC3C STATUS
RMV:STSFAC

Software Release: 5E14 and later
Command Group: SM
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Requests that a digital networking unit - synchronous optical network (DNU-S) synchronous transport signal facility (STSFAC) be removed from service.

WARNING: An unconditional removal of an STSFAC will result in preempting stable calls.

For a very compact digital exchange (VCDX) switching module (SM) with common channel signaling (CCS7) access on a packet switching unit (PSU), an STSFAC can be conditionally removed only if any CCS signaling data links (SDLs) on child facilities are manually removed first, or if the SDL parent CCS links (CCSLKs) are manually deactivated. In addition, an unconditional (UCL) removal of an STSFAC may impact CCS operations.

2. FORMAT

RMV:STSFAC=a-b-c-d-e[,UCL];

3. EXPLANATION OF MESSAGE

UCL = Executes removal unconditionally.

a = Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

b = Digital Networking Unit - SONET (DNU-S) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

c = Data group (DG) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

d = SONET Termination Equipment (STE) facility number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

e = Synchronous Transport Signal (STS) facility number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

NG = No good. The message form is valid, but the request conflicts with current status.

PF = Printout follows. Followed by the RMV:STSFAC output message.
Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

Input Message(s):

- ABT: STSFAC
- RST: STSFAC
- STP: STSFAC

Output Message(s):

- RMV: STSFAC

Input Appendix(es):

- APP: RANGES

Other Manual(s):

235-105-110  System Maintenance Requirements and Tools
235-105-220  Corrective Maintenance
235-190-120  Common Channel Signaling Services Features

MCC Display Page(s):

1511 (DNUS STS MAINTENANCE)
RMV:TAC
Software Release: 5E14 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE
Requests that a test and access (TAC) circuit be removed from service.

2. FORMAT
RMV:TAC=a-b-c[,UCL];

3. EXPLANATION OF MESSAGE
UCL = Execute the removal unconditionally.

a = Switching module number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

b = Trunk unit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

c = Service group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE
NG = No good. The request has been denied. The message form is valid, but the request conflicts with current status.

PF = Printout follows. Followed by the RMV:TAC output message.

RL = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES
Output Message(s):
RMV:TAC

Input Appendix(es):
APP:RANGES
RMV:TEN

Software Release: 5E14 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE
Requests that the analog trunk specified by the trunk equipment number (TEN) be removed from service.

2. FORMAT
RMV:TEN=a-b-c-d-e[,UCL];

3. EXPLANATION OF MESSAGE

UCL = Execute the removal unconditionally.

a = Switching module number.

b = TEN unit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

c = Service group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

d = TEN board number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

e = TEN circuit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

PF = Printout follows. Followed by the RMV:TEN output message.

RL = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

Output Message(s):

RMV:TEN

Input Appendix(es):

APP:RANGES
RMV:TMSFP

Software Release: 5E16(2) and later
Command Group: CM
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Requests that a specified time multiplexed switch (TMS) fabric pair (TMSFP) be removed from service. This command also has the option of removing the TMSFP and all of its child units to the OOS,MAN,RMV state.

WARNING: Using the unconditional (UCL) option with this message may result in lost calls. If the UCL option is not used, checks are made to see whether removing the TMSFP is service affecting. If the removal affects service, the request is denied.

If the UCL option is used, the TMSFP is removed whether it affects calls or not.

2. FORMAT

RMV:TMSFP=a-b[,ALL][,UCL];

3. EXPLANATION OF MESSAGE

ALL = Removes the TMSFP and all its child units (for example, QLPSs, NLIs, DLIs) to the OOS,MAN, RMV state.
UCL = Unconditionally remove the TMSFP.
a = ONTC side that the TMSFP is on.
b = TMS fabric pair number.

4. SYSTEM RESPONSE

NG = No good. The request has been denied. The message syntax is valid, but the request could not be processed. Refer to the APP:CM-IM-REASON appendix in the Appendixes section of the Input Messages manual for a list of possible reasons for denying the request.
PF = Printout follows. A RMV:TMSFP output message will follow in response to the request.
RL = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

Input Message(s):

ABT:TMSFP
OP:CFGSTAT
OP:DMQ-CM-SM
STP: TMSFP

Output Message(s):

OP: CFGSTAT
OP: DMQ-CM
RMV: TMSFP

Input Appendix(es):

APP: CM-IM-REASON

MCC Display Page(s):
1212 TMS FABRIC PAIR STATUS
1214 QLPS SUMMARY
1220,b TMS LINK SUMMARY (where b=TMSFP number).
RMV:TMUX

Software Release: 5E14 and later
Command Group: SM
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Requests that a digital networking unit - synchronous optical network (DNU-S) transmission multiplexer (TMUX) be removed from service.

WARNING: An unconditional removal of a TMUX may result in preempting stable calls.

For a very compact digital exchange (VCDX) switching module (SM) with common channel signaling (CCS7) access on a packet switching unit (PSU), a TMUX can be conditionally removed only if any CCS signaling data links (SDLs) on child facilities are manually removed first, or if the SDL parent CCS links (CCSLKs) are manually deactivated. In addition, an unconditional (UCL) removal of a TMUX may impact CCS operations.

2. FORMAT

RMV:TMUX=a-b-c-d[,UCL];

3. EXPLANATION OF MESSAGE

UCL = Executes removal unconditionally.
a = Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
b = DNU-S number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
c = Data group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
d = TMUX number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

NG = No good. The message form is valid, but the request conflicts with current status.
PF = Printout follows. Followed by the RMV:TMUX output message.
RL = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES
Input Message(s):

   ABT : TMUX
   RST : TMUX
   STP : TMUX

Output Message(s):

   RMV : TMUX

Input Appendix(es):

   APP : RANGES

Other Manual(s):

   235-105-110 System Maintenance Requirements and Tools
   235-105-220 Corrective Maintenance
   235-190-120 Common Channel Signaling Services Features

MCC Display Page(s):

   1510 (DNUS STATUS)
**RMV:TRIB**

*Software Release:* 5E15 and later  
*Command Group:* SM  
*Application:* 5  
*Type:* Input

1. **PURPOSE**

Removes a PCT (Peripheral Control and Timing) link tributary (TRIB) from service either conditionally (by waiting for it to become idle), or unconditionally, by pre-empting the current user.

2. **FORMAT**

RMV:TRIB=a-b-c-d[,UCL];

3. **EXPLANATION OF MESSAGE**

<p>| | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>UCL</td>
<td>= Executes removal unconditionally.</td>
</tr>
<tr>
<td>a</td>
<td>= Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.</td>
</tr>
<tr>
<td>b</td>
<td>= PLTU (PCT Line and Trunk Unit) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.</td>
</tr>
<tr>
<td>c</td>
<td>= PCT Facility Interface number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.</td>
</tr>
<tr>
<td>d</td>
<td>= Tributary number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.</td>
</tr>
</tbody>
</table>

4. **SYSTEM RESPONSE**

<p>| | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>NG</td>
<td>= No good. The message form is valid, but the request conflicts with current status.</td>
</tr>
<tr>
<td>PF</td>
<td>= Printout follows. Followed by the RMV:TRIB output message.</td>
</tr>
<tr>
<td>RL</td>
<td>= Retry later. The request cannot be executed now due to unavailable system resources.</td>
</tr>
</tbody>
</table>

5. **REFERENCES**

**Input Message(s):**

ABT:TRIB  
RST:TRIB  
STP:TRIB

**Output Message(s):**

RST:TRIB
Input Appendix(es):

APP : RANGES

Other Manual(s):

235-105-110 System Maintenance Requirements and Tools
235-105-220 Corrective Maintenance
235-190-120 Common Channel Signaling Service Features

MCC Display Page(s):

1430 (PLTU Status page)
1431 (PLTU Facility Status page)
RMV:TRK-A

Software Release: 5E14 only
Command Group: TRKLN
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Requests the removal of a trunk from service and places it in the specified out-of-service (OOS) status. The ability to remove a trunk group is also provided.

Formats 1, 8, and 11 specify a single trunk to be removed, based on access hardware type. Format 1 also allows the option of removing all trunks on a digital facilities interface (DFI) by specifying the facility. Format 11 also allows the option of removing all trunks residing on a digital networking unit - synchronous optical network (SONET) (DNU-S) virtual tributary level 1 facility by specifying the facility.

Formats 1 and 11 may be used to remove packet switch unit (PSU) based CCS7 signaling data link (SDL) ports. The SDL may be removed conditionally if the parent CCS signaling link is in the DACT state. The parent signaling link can be determined by use of the RC/V Views 7.41 or 7.42. No state should be specified since the OOS-MTCE-DSBLD state is the default and only valid state. Finally, the UCL option is available but will cause service interruptions if the SDL is servicing traffic.

Format 2 specifies an integrated digital carrier unit (IDCU) line equipment number (ILEN) to be removed.

Format 3 specifies an X.25 access on T1 (XAT) port to be removed by specifying the multi-line hunt group (MLHG) and member.

Format 4 specifies an XAT port to be removed by specifying a packet directory number (PKTDN).

Format 5 specifies a primary rate interface (PRI) group to be removed. If the type of channel to be removed is not specified, the D-channel(s) of the PRI group will be removed to the specified or default port status. Format 5 allows the option of removing either the D-channel(s) of the PRI group or all the B-channels of the PRI group. This format cannot be used for operator services position system (OSPS) PRIs because they are not assigned PRI group numbers.

Format 6 specifies the PSU equipment number of the trunk to be removed.

Format 7 specifies a SLC® line equipment number (SLEN) to be removed.

Format 9 specifies all members in a trunk group are to be removed.

Format 10 specifies an individual or range of trunks within the same trunk group to be removed.

Format 11 specifies an integrated digital loop carrier (IDLC) networking equipment number (INEN) to be removed.

If the trunk is in service at the time of the request, the OOS status will be added and the trunk will be restricted accordingly. If the trunk is already OOS, the OOS status will be added to the trunk according to the trunk status hierarchy, if possible. Up to four independent OOS conditions can exist simultaneously on a trunk.

If the trunk is traffic-busy when the request is made, it will be camped on for up to 20 minutes unless an unconditional removal is requested. If camped on, a STP:CAMPON input request can stop the campon (and abort the removal), if desired. If removed unconditionally, the trunk is preempted and all stable calls in progress on the
trunks are torn down.

If the trunk is a packet pipe trunk or a packet pipe member trunk, a conditional remove will be denied (camp-ons are not allowed). Trunks associated with a packet pipe are nailed-up paths that carry CDMA packets that are distributed to any number of speech handler (SH) trunks. There is no way to determine if call traffic is present on these trunks so only an unconditional remove will be allowed. An unconditional removal of a packet pipe trunk or a packet pipe member trunk may impact up to 30 calls.

If the trunk to be removed is a PRI D-channel, the associated B-channels will also be removed from service unless the PRI is equipped with a backup D-channel and that backup D-channel is not already manually out-of-service. If a PRI is equipped with a backup D-channel, both D-channels must be removed from service before the B-channels will be taken out-of-service. This can be accomplished by using either the PRIGRP option on the RMV:TRK input request or by removing the two D-channel trunks with 2 individual RMV:TRK input requests. Except for the PRIGRP option, PRI D-channels can only be removed one at a time. Specifying a range of D-channel trunks or a D-channel trunk group is not allowed. OSPS PRIs cannot have a backup D-channel.

For internal protocol (IP) packet switching (PS) traffic busy trunks, a conditional removal will remove the trunk from service without camping-on and the PS calls will be transferred to other in-service trunks within the same trunk group.

A conditional removal of a PS trunk will camp-on only if it is involved in loopback testing. A conditional removal request for a PS trunk will be denied if the trunk removal would result in exceeding the packet switching maintenance limit (PSML), 25% of the trunk group size. The PSML is rounded off to the nearest whole number and if the trunk group size is less than 4 then the PSML is set to 1. The UCL option will override the PSML check. The PSML check does not apply to XAT ports.

An OOS condition on a trunk may be deleted using the RST:TRK input request.

**WARNING:** Using the UCL option could be service-affecting.

Specifying `RMV:TRK,PRIGRP=RMV:TRK,PRIGRP=CH=D` can affect service on all B-channels assigned to the PRI. At most, 479 B-channels may be assigned to a PRI. If the UCL option is used with either of these two RMV:TRK formats, all calls on the PRI’s B-channels are cleared. While camped onto an entire PRI with either of these two RMV:TRK formats, no new calls are allowed on the PRI.

### 2. FORMAT

1. `RMV:TRK,DEN=a-b-c-d[,FAC=v][,UCL|CAMPON=x][:[a1][,b1][,c1][,d1]];`
2. `RMV:TRK,PRIGRP=k[,CH=w][,UCL|CAMPON=x][:[a1][,b1][,c1]]`
3. `RMV:TRK,s1[,UCL|CAMPON=x][:[a1][,b1][,c1][,d1]];`

### 3. EXPLANATION OF MESSAGE

**Note:** Refer to the Acronym section of the Input Messages manual for the full expansion of acronyms shown in the format.

- **ALL** = Remove all trunks on the remote terminal from service.
- **CAMPON** = Camp on the trunk for the specified time interval if it is traffic busy.
- **DEN** = Digital equipment number of the digital trunk.
SUM = Generate a summary report.

UCL = Execute the removal unconditionally. All stable calls will be disconnected (traffic release). For packet switching trunks, the UCL option overrides the check for the maintenance limit.

a = Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

b = Digital line and trunk unit (DLTU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

c = Digital facility interface (DFI) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

d = Channel number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

If this is a DFI-1, there is only one facility, channels 1-24. If this is a DFI-2, channels 1-24 are associated with facility T1 0 and channels 25-48 are associated with facility T1 1.

If ALL is specified, all channels on the DFI will be removed from service. For DFI-1, this will be channels 1-24. For DFI-2, this will be channels 1-48. The FAC option can be used to specify which set of 24 channels to remove for a DFI-2. Refer to the FAC option (variable 'v') for additional information.

e = IDCU number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

f = Remote terminal (RT) number or IDCU digital signal level 1 (DS1) serving PUB43801 number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

g = RT line number or PUB43801 channel. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

h = Multi-line hunt group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

i = Multi-line hunt group member number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

j = Directory number.

k = PRI group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

l = Digital carrier line unit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

m = Remote terminal (RT) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

n = Trunk unit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

o = Service group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
p = Channel board number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

q = Circuit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

r = Number of the trunk group to be removed from service.
   Note: Using this will remove all members of the trunk group specified and could potentially isolate the far-end office.

s = Trunk group number.

t = Trunk member number or lower limit of a range of trunk member numbers.

u = Upper limit of a range of trunk member numbers.

v = Facility number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
   0 = Facility 0 is channels 1 through 24 on a DFI-2. Specifying this will remove channels 1 through 24.
   1 = Facility 1 is channels 25 through 48 on a DFI-2. Specifying this will remove channels 25 through 48.

When used with the DEN identifier, this option specifies the facility to be removed. It is only valid for DFI-2 hardware. The DEN identifier must have the channel set to ALL.

w = Channel. Valid value(s):
   D = Specifying this will cause the D-channel(s) of the PRI group to be removed to the specified or default status. If the PRI has a backup D-channel assigned, it will also be removed.
   B = Specifying this will cause all of the B-channel(s) of the PRI group to be removed to the specified or default status.

When used with the PRIGRP identifier, this option specifies which channels on the PRIGRP are to be removed.

x = Camp-on time limit in minutes (0-20). (Default is 2 minutes for OSPS-PRI trunks, 20 minutes for all others).

Status subfields are always separated by a single comma even if in-between statuses are omitted.

If variables 'a1', 'b1', and 'c1' are omitted, they will default based on trunk type.

<table>
<thead>
<tr>
<th>Trunk Type</th>
<th>Default Status</th>
</tr>
</thead>
<tbody>
<tr>
<td>One-way incoming</td>
<td>OOS,MTCE,DSBLD</td>
</tr>
<tr>
<td>Two-way</td>
<td>OOS,MTCE,DSBLD</td>
</tr>
<tr>
<td>One-way outgoing</td>
<td>OOS,MTCE,DSBLD</td>
</tr>
<tr>
<td>Announcement</td>
<td>OOS,MTCE,RAP</td>
</tr>
<tr>
<td>XAT</td>
<td>OOS,MTCE,DSBLD</td>
</tr>
</tbody>
</table>

Note: If a status sub-field is entered without entering the previous sub-field, the default values indicated will be assumed.

Note: A trunk type of announcement will identify either a recorded announcement facility (RAF) or service
announcement system (SAS). Refer to the APP:PORT-STATUS appendix in the Appendixes section of the Output Message manual to determine valid states for each port type.

#### a

= Basic state. Valid value(s):

<table>
<thead>
<tr>
<th>Value</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>OOS</td>
<td>Out-of-service (default)</td>
</tr>
</tbody>
</table>

#### b

= Qualifier (choose one or omit). Valid value(s):

<table>
<thead>
<tr>
<th>Value</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>BLKD</td>
<td>Blocked. If basic state field 'a' is not specified, it will be defaulted to OOS.</td>
</tr>
<tr>
<td>CADN</td>
<td>Circuit administration. If basic state field 'a' is not specified, it will be defaulted to OOS. Note: If CADN is specified, the operational restriction of DSBLD or LKDO must also be specified.</td>
</tr>
<tr>
<td>MTCE</td>
<td>Maintenance. If basic state field 'a' is not specified, it will be defaulted to OOS.</td>
</tr>
<tr>
<td>TMT</td>
<td>Traffic management (valid only for outgoing trunks). If basic state field 'a' is not specified, it will be defaulted to OOS.</td>
</tr>
</tbody>
</table>

#### c

= Operational restrictions (choose one or omit). Valid value(s):

<table>
<thead>
<tr>
<th>Value</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>DSBLD</td>
<td>Disabled (not valid for recorded announcement trunks). Implies busy to outgoing calls and seizure toward distant office If qualifier field 'b' is not specified, it will be defaulted to MTCE.</td>
</tr>
<tr>
<td>LKDO</td>
<td>Locked out (valid only for two-way trunks). Implies busy to outgoing calls only. If qualifier field 'b' is not specified, it will be defaulted to MTCE.</td>
</tr>
<tr>
<td>RAP</td>
<td>Recorded announcement port (valid only for recorded announcement or service announcement system trunks). Implies that the particular announcement trunk will not be selected If qualifier field 'b' is not specified, it will be defaulted to MTCE.</td>
</tr>
</tbody>
</table>

#### d

= Supplementary information (choose one or omit). Valid value(s):

<table>
<thead>
<tr>
<th>Value</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>AML</td>
<td>Automatic maintenance limit.</td>
</tr>
<tr>
<td>AUDIT</td>
<td>Audit-detected problem.</td>
</tr>
<tr>
<td>CAMA</td>
<td>Central automatic message accounting.</td>
</tr>
<tr>
<td>CAROT</td>
<td>Centralized automatic reporting on trunks.</td>
</tr>
<tr>
<td>CDI</td>
<td>Control and data interface.</td>
</tr>
<tr>
<td>CHT</td>
<td>Circuit.</td>
</tr>
<tr>
<td>CTTU</td>
<td>Central trunk testing unit.</td>
</tr>
<tr>
<td>DFI</td>
<td>Digital facility interface.</td>
</tr>
<tr>
<td>FORPOT</td>
<td>Foreign potential.</td>
</tr>
<tr>
<td>GRID</td>
<td>Line unit grid.</td>
</tr>
<tr>
<td>IAA</td>
<td>Ineffective attempt analysis.</td>
</tr>
<tr>
<td>PCTF</td>
<td>Per-call test failure.</td>
</tr>
<tr>
<td>PPM</td>
<td>Periodic pulse metering.</td>
</tr>
<tr>
<td>REX</td>
<td>Routine exercise.</td>
</tr>
<tr>
<td>RO</td>
<td>Routine/other reasons.</td>
</tr>
<tr>
<td>ROTF</td>
<td>Operational test failure.</td>
</tr>
<tr>
<td>SCC</td>
<td>Switching control center.</td>
</tr>
<tr>
<td>TICOM</td>
<td>Treated interface common circuit.</td>
</tr>
<tr>
<td>TRBL</td>
<td>Unspecified trouble.</td>
</tr>
<tr>
<td>TRBLORG</td>
<td>Origination trouble.</td>
</tr>
<tr>
<td>TRKBD</td>
<td>Trunk board.</td>
</tr>
<tr>
<td>TRKCT</td>
<td>Trunk circuit.</td>
</tr>
</tbody>
</table>

#### e

= Digital networking unit - SONET number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
f₁ = Data group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

g₁ = Synchronous transport signal (STS) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

h₁ = Virtual tributary group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

i₁ = Digital signal level 0 (DS0). Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

j₁ = PSU unit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

k₁ = PSU shelf number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

l₁ = PSU channel group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

m₁ = PSU channel group member number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

n₁ = SONET termination equipment (STE) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

o₁ = Virtual tributary member number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

If ALL is specified, all channels on the VT1.5 facility will be removed from service.

s₁ = Equipment number:

ILEN=a-e-f-g
MLHG=h-i
PKTDN=j
PSUEN=a-j₁-k₁-l₁-m₁[:[a₁][,b₁][,c₁][,d₁]][,SUM];
SLEN=a-l-m-{g|ALL}
TEN=a-n-o-p-q
TG=r
TKGMN=s-t[&u]
NEN=a-e₁-f₁-n₁-g₁-h₁-o₁-i₁
INEN=a-e₁-f₁-m

4. SYSTEM RESPONSE

PF  = Printout follows. The request has been accepted. Followed by the RMV:TRK output message.

RL  = Retry later. The request has been denied, probably due to system load.

5. REFERENCES

Input Message(s):

OP:JOBSTATUS
RMV:LINE
RST:TRK
STP:CAMPON
Output Message(s):

REPT: CAMPON
RMV: TRK
REPT: TRK-SUM

Input Appendix(es):

APP: RANGES

Output Appendix(es):

APP: PORT-STATUS

Other Manual(s):
235-105-110  System Maintenance Requirements and Tools
235-190-104  IDSN Feature Description
235-190-120  Common Channel Signaling Service Features
235-900-341  National ISDN Basic Rate Interface Specification
1. PURPOSE

Requests the removal of a trunk from service and places it in the specified out-of-service (OOS) status. The ability to remove a trunk group is also provided.

If the trunk is in service at the time of the request, the OOS status will be added and the trunk will be restricted accordingly. If the trunk is already OOS, the OOS status will be added to the trunk according to the trunk status hierarchy, if possible. Up to four independent OOS conditions can exist simultaneously on a trunk.

If the trunk is traffic-busy when the request is made, it will be camped on for up to 20 minutes unless an unconditional removal is requested. If camped on, an STP:CAMPON input request can stop the campon (and abort the removal), if desired. If removed unconditionally, the trunk is preempted and all stable calls in progress on the trunks are torn down.

If the trunk is a packet pipe trunk or a packet pipe member trunk, a conditional remove will be denied (camp-ons are not allowed). Trunks associated with a packet pipe are nailed-up paths that carry CDMA packets that are distributed to any number of speech handler (SH) trunks. There is no way to determine if call traffic is present on these trunks so only an unconditional remove will be allowed. An unconditional removal of a packet pipe trunk or a packet pipe member trunk may impact up to 30 calls.

If the trunk to be removed is a PRI D-channel, the associated B-channels will also be removed from service unless the PRI is equipped with a backup D-channel and that backup D-channel is not already manually out-of-service. If a PRI is equipped with a backup D-channel, both D-channels must be removed from service before the B-channels will be taken out-of-service. This can be accomplished by using either the PRIGRP option on the RMV:TRK input request or by removing the two D-channel trunks with 2 individual RMV:TRK input requests. Except for the PRIGRP option, PRI D-channels can only be removed one at a time. Specifying a range of D-channel trunks or a D-channel trunk group is not allowed. OSPS PRIs cannot have a backup D-channel.

For internal protocol (IP) packet switching (PS) traffic busy trunks, a conditional removal will remove the trunk from service without camping-on and the PS calls will be transferred to other in-service trunks within the same trunk group.

A conditional removal of a PS trunk will camp-on only if it is involved in loopback testing. A conditional removal request for a PS trunk will be denied if the trunk removal would result in exceeding the packet switching maintenance limit (PSML). 25% of the trunk group size. The PSML is rounded off to the nearest whole number and if the trunk group size is less than 4 then the PSML is set to 1. The UCL option will override the PSML check. The PSML check does not apply to XAT ports.

Adding the OOS,MTCE,DSBLD,TRBL status to the trunk will cause in progress block/unblock/reset sending to stop.

While in the OOS,MTCE,DSBLD,TRBL status, additional block/unblock sending can start.

An OOS condition on a trunk may be deleted using the RST:TRK input request.

WARNING: Using the UCL option could be service-affecting.
Specifying RMV:TRK, PRIGRP= or RMV:TRK, PRIGRP=, CH=D can affect service on all B-channels assigned to the PRI. At most, 479 B-channels may be assigned to a PRI. If the UCL option is used with either of these two RMV:TRK formats, all calls on the PRI's B-channels are cleared. While camped onto an entire PRI with either of these two RMV:TRK formats, no new calls are allowed on the PRI.

2. FORMAT

RMV:TRK, a[, UCL|CAMPON=y][[:a^1][,b^1][,c^1][,d^1]][,SUM];

3. EXPLANATION OF MESSAGE

NOTE: Refer to the Acronym section of the Input Messages manual for the full expansion of acronyms shown in the format.

ALL = Remove all trunks on the remote terminal from service.

SUM = Generate a summary report.

UCL = Execute the removal unconditionally. All stable calls will be disconnected (traffic release). For packet switching trunks, the UCL option overrides the check for the maintenance limit.

\[a\] = Unit. Valid value(s):

DEN=b-c-d-e[, FAC=w] = The SDL may be removed conditionally if the parent CCS signaling link is in the DACT state. The parent signaling link can be determined by use of the RC/V Views 7.41 or 7.42. No state should be specified since the OOS-MTCE-DSBLD state is the default and only valid state. Finally, the UCL option is available but will cause service interruptions if the SDL is servicing traffic.

ILEN=b-f-g-h
INEN=b-e^1-g-n
MLHG=i-j
NEN=a-e^1-f^1-n^1-g^1-h^1-o^1-i^1
OIJEN=b-v^1-w^1-x^1-y^1-z^1-a^2-s^1
PKTDN=k
PLTEN=b-p^1-q^1-r^1-s^1
PRIGRP=l[, CH=w] = If the type of channel to be removed is not specified, the D-channel(s) of the PRI group will be removed to the specified or default port status. Format 5 allows the option of removing either the D-channel(s) of the PRI group or all the B-channels of the PRI group. This format cannot be used for operator services position system (OSPS) PRIs because they are not assigned PRI group numbers.

PSUEN=b-j^1-k^1-l^1-m^1
SLEN=b-m-n-{h|ALL}
TEN=b-o-p-q-r
TG=s
TKGMN=t-u[&&v]
VTRK=b-t^1-u^1

\[b\] = Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

\[c\] = Digital line and trunk unit (DLTU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

\[d\] = Digital facility interface (DFI) number. Refer to the APP:RANGES appendix in the Appendixes
section of the Input Messages manual.

e = Channel number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

If this is a DFI-1, there is only one facility, channels 1-24. If this is a DFI-2, channels 1-24 are associated with facility T1 0 and channels 25-48 are associated with facility T1 1.

If ALL is specified, all channels on the DFI will be removed from service. For DFI-1, this will be channels 1-24. For DFI-2, this will be channels 1-48. The FAC option can be used to specify which set of 24 channels to remove for a DFI-2. Refer to the FAC option (variable 'w') for additional information.

f = IDCU number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

g = Remote terminal (RT) number or IDCU digital signal level 1 (DS1) serving PUB43801 number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

h = RT line number or PUB43801 channel. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

i = Multi-line hunt group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

j = Multi-line hunt group member number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

k = Directory number.

l = PRI group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

m = Digital carrier line unit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

n = Remote terminal (RT) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

o = Trunk unit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

p = Service group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

q = Channel board number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

r = Circuit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

s = Number of the trunk group to be removed from service.

Using this will remove all members of the trunk group specified and could potentially isolate the far-end office.
t = Trunk group or bearer independent call control (BICC) group number.

u = Trunk member or normalized call instance code (CIC), or lower limit of a range of trunk member numbers or normalized CICs.

v = Upper limit of a range of trunk member numbers or normalized CICs.

w = Facility number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual. Valid value(s):

0 = Facility 0 is channels 1 through 24 on a DFI-2. Specifying this will remove channels 1 through 24.

1 = Facility 1 is channels 25 through 48 on a DFI-2. Specifying this will remove channels 25 through 48.

When used with the DEN identifier, this option specifies the facility to be removed. It is only valid for DFI-2 hardware. The DEN identifier must have the channel set to ALL.

x = Channel. Valid value(s):

B = Specifying this will cause all of the B-channel(s) of the PRI group to be removed to the specified or default status.

D = Specifying this will cause the D-channel(s) of the PRI group to be removed to the specified or default status. If the PRI has a backup D-channel assigned, it will also be removed.

When used with the PRIGRP identifier, this option specifies which channels on the PRIGRP are to be removed.

y = Camp-on time limit in minutes (0-1438). (Default is 2 minutes for OSPS-PRI trunks, 20 minutes for all others). Camp on the trunk for the specified time interval if it is traffic busy.

Status subfields are always separated by a single comma even if in-between statuses are omitted.

If variables ‘a1’, ‘b1’, and ‘c1’ are omitted, they will default based on trunk type.

<table>
<thead>
<tr>
<th>Trunk Type</th>
<th>Default Status</th>
</tr>
</thead>
<tbody>
<tr>
<td>One-way incoming</td>
<td>OOS,MTCE,DSBLD</td>
</tr>
<tr>
<td>Two-way</td>
<td>OOS,MTCE,DSBLD</td>
</tr>
<tr>
<td>One-way outgoing</td>
<td>OOS,MTCE,DSBLD</td>
</tr>
<tr>
<td>Announcement</td>
<td>OOS,MTCE,RAP</td>
</tr>
<tr>
<td>XAT</td>
<td>OOS,MTCE,DSBLD</td>
</tr>
</tbody>
</table>

If a status sub-field is entered without entering the previous sub-field, the default values indicated will be assumed.

A trunk type of announcement will identify either a recorded announcement facility (RAF) or service announcement system (SAS). Refer to the APP:PORT-STATUS appendix in the Appendixes section of the Output Message manual to determine valid states for each port type.

a1 = Basic state. Valid value(s):

OOS = Out-of-service (default).

b1 = Qualifier (choose one or omit). Valid value(s):

BLKD = Blocked. If basic state field ‘a1’ is not specified, it will be defaulted to OOS.
CADN = Circuit administration. If basic state field 'a1' is not specified, it will be defaulted to OOS.

If CADN is specified, the operational restriction of DSBLD or LKDO must also be specified.

MTCE = Maintenance. If basic state field 'a1' is not specified, it will be defaulted to OOS.

TMT = Traffic management (valid only for outgoing trunks). If basic state field 'a1' is not specified, it will be defaulted to OOS.

c1 = Operational restrictions (choose one or omit). Valid value(s):

DSBLD = Disabled (not valid for recorded announcement trunks). Implies busy to outgoing calls and seizure toward distant office If qualifier field 'b1' is not specified, it will be defaulted to MTCE.

LKDO = Locked out (valid only for two-way trunks). Implies busy to outgoing calls only. If qualifier field 'b1' is not specified, it will be defaulted to MTCE.

RAP = Recorded announcement port (valid only for recorded announcement or service announcement system trunks). Implies that the particular announcement trunk will not be selected. If qualifier field 'b1' is not specified, it will be defaulted to MTCE.

d1 = Supplementary information (choose one or omit). Valid value(s):

AML = Automatic maintenance limit.
AUDIT = Audit-detected problem.
CAMA = Central automatic message accounting.
CAROT = Centralized automatic reporting on trunks.
CDI = Control and data interface.
CKT = Circuit.
CTTU = Central trunk testing unit.
DFI = Digital facility interface.
FORPOT = Foreign potential.
GRID = Line unit grid.
IAA = Ineffective attempt analysis.
PCTF = Per-call test failure.
PPM = Periodic pulse metering.
PVELBK = Protocol handler voice encoding loopback test failed.
REX = Routine exercise.
RO = Routine/other reasons.
ROTF = Operational test failure.
SCC = Switching control center.
TICOM = Treated interface common circuit.
TRBL = Unspecified trouble.
TRBLORG = Origination trouble.
TRKBD = Trunk board.
TRKCT = Trunk circuit.

e1 = Digital networking unit - SONET number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

f1 = Data group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
g = Synchronous transport signal (STS) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

h = Virtual tributary group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

i = Digital signal level 0 (DS0). Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

If ALL is specified, all channels on the VT1.5 facility will be removed from service.

j = PSU unit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

k = PSU shelf number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

l = PSU channel group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

m = PSU channel group member number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

If ALL is specified, all members on the PSU channel group will be removed from service.

n = SONET termination equipment (STE) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

o = Virtual tributary member number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

p = PLTU number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

q = PCT facility interface (PCTFI) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

r = Tributary number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

s = Channel number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

If ALL is specified, all channels on that facility will be removed.

t = Virtual trunk facility number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

u = Virtual trunk channel number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

v = Optical interface unit (OIU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

w = Protection group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
x¹ = STM-1 number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

y¹ = High order virtual container number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

z¹ = Low order virtual container group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

a² = Low order virtual container member number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

PF = Printout follows. The request has been accepted. Followed by the RMV:TRK output message.

RL = Retry later. The request has been denied, probably due to system load.

5. REFERENCES

Input Message(s):

OP:JOBSTATUS
RMV:LINE
RST:TRK
STP:CAMPON

Output Message(s):

REPT:CAMPON
RMV:TRK
REPT:TRK-SUM

Input Appendix(es):

APP:RANGES

Output Appendix(es):

APP:PORT-STATUS

Other Manual(s):

235-105-110 System Maintenance Requirements and Tools
235-190-104 ISDN Feature Description
235-200-115 CNI Common Channel Signaling
235-200-116 Signaling Gateway Common Channel Signaling
235-900-341 National ISDN Basic Rate Interface Specification
RMV:TRK-C

Software Release: 5E16(1) and later
Command Group: TRKLN
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Requests the removal of a trunk from service and places it in the specified out-of-service (OOS) status. The ability to remove a trunk group is also provided.

If the trunk is in service at the time of the request, the OOS status will be added and the trunk will be restricted accordingly. If the trunk is already OOS, the OOS status will be added to the trunk according to the trunk status hierarchy, if possible. Up to four independent OOS conditions can exist simultaneously on a trunk.

If the trunk is traffic-busy when the request is made, it will be camped on for up to 20 minutes unless an unconditional removal is requested. If camped on, a STP:CAMPON input request can stop the campon (and abort the removal), if desired. If removed unconditionally, the trunk is preempted and all stable calls in progress on the trunks are torn down.

If the trunk is a packet pipe trunk or a packet pipe member trunk, a conditional remove will be denied (camp-ons are not allowed). Trunks associated with a packet pipe are nailed-up paths that carry CDMA packets that are distributed to any number of speech handler (SH) trunks. There is no way to determine if call traffic is present on these trunks so only an unconditional remove will be allowed. An unconditional removal of a packet pipe trunk or a packet pipe member trunk may impact up to 30 calls.

When PSUEN for the PCF trunk is entered, the entire PCF trunk group will be removed.

If the trunk to be removed is a PRI D-channel, the associated B-channels will also be removed from service unless the PRI is equipped with a backup D-channel and that backup D-channel is not already manually out-of-service. If a PRI is equipped with a backup D-channel, both D-channels must be removed from service before the B-channels will be taken out-of-service. This can be accomplished by using either the PRIGRP option on the RMV:TRK input request or by removing the two D-channel trunks with 2 individual RMV:TRK input requests. Except for the PRIGRP option, PRI D-channels can only be removed one at a time. Specifying a range of D-channel trunks or a D-channel trunk group is not allowed. OSPS PRIIs cannot have a backup D-channel.

For internal protocol (IP) packet switching (PS) traffic busy trunks, a conditional removal will remove the trunk from service without camping-on and the PS calls will be transferred to other in-service trunks within the same trunk group.

A conditional removal of a PS trunk will camp-on only if it is involved in loopback testing. A conditional removal request for a PS trunk will be denied if the trunk removal would result in exceeding the packet switching maintenance limit (PSML). 25% of the trunk group size. The PSML is rounded off to the nearest whole number and if the trunk group size is less than 4 then the PSML is set to 1. The UCL option will override the PSML check. The PSML check does not apply to XAT ports.

Adding the OOS,MTCE,DSBLD,TRBL status to the trunk will cause in progress block/unblock/reset sending to stop.

While in the OOS,MTCE,DSBLD,TRBL status, additional block/unblock sending can start.

An OOS condition on a trunk may be deleted using the RST:TRK input request.
WARNING: Using the UCL option could be service-affecting.

Specifying RMV:TRK,PRIGRP= or RMV:TRK,PRIGRP=,CH=D can affect service on all B-channels assigned to the PRI. At most, 479 B-channels may be assigned to a PRI. If the UCL option is used with either of these two RMV:TRK formats, all calls on the PRI's B-channels are cleared. While camped onto an entire PRI with either of these two RMV:TRK formats, no new calls are allowed on the PRI.

2. FORMAT

RMV:TRK,a[,UCL|CAMPON=y][:[a1][,b1][,c1][,d1]][,SUM];

3. EXPLANATION OF MESSAGE

NOTE: Refer to the Acronym section of the Input Messages manual for the full expansion of acronyms shown in the format.

ALL = Remove all trunks on the remote terminal from service.

SUM = Generate a summary report.

UCL = Execute the removal unconditionally. All stable calls will be disconnected (traffic release). For packet switching trunks, the UCL option overrides the check for the maintenance limit.

a = Unit. Valid value(s):

DEN=b-c-d-e[,FAC=w] = The SDL may be removed conditionally if the parent CCS signaling link is in the DACT state. The parent signaling link can be determined by use of the RC/V Views 7.41 or 7.42. No state should be specified since the OOS-MTCE-DSBLD state is the default and only valid state. Finally, the UCL option is available but will cause service interruptions if the SDL is servicing traffic.

ILEN=b-f-g-h
INEN=b-e1-g-n
MLHG=i-j
NEN=a-e1-f1-n1-g1-h1-o1-i1
OUIEN=b-v1-w1-x1-y1-h1-o1-s1
PKTDN=k
PLTEN=b-p1-q1-r1-s1
PRIGRP=l[,CH=w] = If the type of channel to be removed is not specified, the D-channel(s) of the PRI group will be removed to the specified or default port status. Format 5 allows the option of removing either the D-channel(s) of the PRI group or all the B-channels of the PRI group. This format cannot be used for operator services position system (OSPS) PRIs because they are not assigned PRI group numbers.

PSUEN=b-j1-k1-l1-m1
SLEN=b-m-n-(h|ALL)
TEN=b-o-p-q-r
TG=s
TKGMN=t-u[&&v]
VTRK=b-t1-u1
ATMPP=b-j1-b2-c2

b = Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

c = Digital line and trunk unit (DLTU) number. Refer to the APP:RANGES appendix in the Appendixes
section of the Input Messages manual.

d  = Digital facility interface (DFI) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

e  = Channel number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

If this is a DFI-1, there is only one facility, channels 1-24. If this is a DFI-2, channels 1-24 are associated with facility T1 0 and channels 25-48 are associated with facility T1 1.

If ALL is specified, all channels on the DFI will be removed from service. For DFI-1, this will be channels 1-24. For DFI-2, this will be channels 1-48. The FAC option can be used to specify which set of 24 channels to remove for a DFI-2. Refer to the FAC option (variable 'w') for additional information.

f  = IDCU number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

g  = Remote terminal (RT) number or IDCU digital signal level 1 (DS1) serving PUB43801 number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

h  = RT line number or PUB43801 channel. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

i  = Multi-line hunt group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

j  = Multi-line hunt group member number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

k  = Directory number.

l  = PRI group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

m  = Digital carrier line unit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

n  = Remote terminal (RT) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

o  = Trunk unit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

p  = Service group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

q  = Channel board number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

r  = Circuit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

s  = Number of the trunk group to be removed from service.
Using this will remove all members of the trunk group specified and could potentially isolate the far-end office.

**t**  = Trunk group or bearer independent call control (BICC) group number.

**u**  = Trunk member or normalized call instance code (CIC), or lower limit of a range of trunk member numbers or normalized CICs.

**v**  = Upper limit of a range of trunk member numbers or normalized CICs.

**w**  = Facility number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual. Valid value(s):

- 0  = Facility 0 is channels 1 through 24 on a DFI-2. Specifying this will remove channels 1 through 24.
- 1  = Facility 1 is channels 25 through 48 on a DFI-2. Specifying this will remove channels 25 through 48.

When used with the DEN identifier, this option specifies the facility to be removed. It is only valid for DFI-2 hardware. The DEN identifier must have the channel set to ALL.

**x**  = Channel. Valid value(s):

- **B**  = Specifying this will cause all of the B-channel(s) of the PRI group to be removed to the specified or default status.
- **D**  = Specifying this will cause the D-channel(s) of the PRI group to be removed to the specified or default status. If the PRI has a backup D-channel assigned, it will also be removed.

When used with the PRIGRP identifier, this option specifies which channels on the PRIGRP are to be removed.

Status subfields are always separated by a single comma even if in-between statuses are omitted.

If variables 'a', 'b', and 'c' are omitted, they will default based on trunk type.

<table>
<thead>
<tr>
<th>Trunk Type</th>
<th>Default Status</th>
</tr>
</thead>
<tbody>
<tr>
<td>One-way incoming</td>
<td>OOS,MTCE,DSBLD</td>
</tr>
<tr>
<td>Two-way</td>
<td>OOS,MTCE,DSBLD</td>
</tr>
<tr>
<td>One-way outgoing</td>
<td>OOS,MTCE,DSBLD</td>
</tr>
<tr>
<td>Announcement</td>
<td>OOS,MTCE,RAP</td>
</tr>
<tr>
<td>XAT</td>
<td>OOS,MTCE,DSBLD</td>
</tr>
</tbody>
</table>

If a status sub-field is entered without entering the previous sub-field, the default values indicated will be assumed.

A trunk type of announcement will identify either a recorded announcement facility (RAF) or service announcement system (SAS). Refer to the APP:PORT-STATUS appendix in the Appendixes section of the Output Message manual to determine valid states for each port type.

**y**  = Camp-on time limit in minutes (0-20). (Default is 2 minutes for OSPS-PRI trunks, 20 minutes for all others). Camp on the trunk for the specified time interval if it is traffic busy.

**a**  = Basic state. Valid value(s):

- **OOS**  = Out-of-service (default).
= Qualifier (choose one or omit). Valid value(s):

BLKD = Blocked. If basic state field 'a1' is not specified, it will be defaulted to OOS.
CADN = Circuit administration. If basic state field 'a1' is not specified, it will be defaulted to OOS.

If CADN is specified, the operational restriction of DSBLD or LKDO must also be specified.

MTCE = Maintenance. If basic state field 'a1' is not specified, it will be defaulted to OOS.
TMT = Traffic management (valid only for outgoing trunks). If basic state field 'a1' is not specified, it will be defaulted to OOS.

= Operational restrictions (choose one or omit). Valid value(s):

DSBLD = Disabled (not valid for recorded announcement trunks). Implies busy to outgoing calls and seizure toward distant office. If qualifier field 'b1' is not specified, it will be defaulted to MTCE.
LKDO = Locked out (valid only for two-way trunks). Implies busy to outgoing calls only. If qualifier field 'b1' is not specified, it will be defaulted to MTCE.
RAP = Recorded announcement port (valid only for recorded announcement or service announcement system trunks). Implies that the particular announcement trunk will not be selected. If qualifier field 'b1' is not specified, it will be defaulted to MTCE.

= Supplementary information (choose one or omit). Valid value(s):

AML = Automatic maintenance limit.
AUDIT = Audit-detected problem.
CAM = Central automatic message accounting.
CAROT = Centralized automatic reporting on trunks.
CDI = Control and data interface.
CKT = Circuit.
CTTU = Central trunk testing unit.
DFI = Digital facility interface.
FORPOT = Foreign potential.
GRID = Line unit grid.
IAA = Ineffective attempt analysis.
PCTF = Per-call test failure.
PPM = Periodic pulse metering.
PVELBK = Protocol handler voice encoding loopback test failed.
REX = Routine exercise.
RO = Routine/other reasons.
ROTF = Operational test failure.
SCC = Switching control center.
TICOM = Treated interface common circuit.
TRBL = Unspecified trouble.
TRBLORG = Origination trouble.
TRKBD = Trunk board.
TRKCT = Trunk circuit.

= Digital networking unit - SONET number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

= Data group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input
Messages manual.

\( g^1 \) = Synchronous transport signal (STS) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

\( h^1 \) = Virtual tributary group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

\( i^1 \) = Digital signal level 0 (DS0). Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

If ALL is specified, all channels on the VT1.5 facility will be removed from service.

\( j^1 \) = PSU unit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

\( k^1 \) = PSU shelf number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

\( l^1 \) = PSU channel group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

\( m^1 \) = PSU channel group member number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

If ALL is specified, all members on the PSU channel group will be removed from service.

\( n^1 \) = SONET termination equipment (STE) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

\( o^1 \) = Virtual tributary member number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

\( p^1 \) = PLTU number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

\( q^1 \) = PCT facility interface (PCTFI) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

\( r^1 \) = Tributary number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

\( s^1 \) = Channel number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

If ALL is specified, all channels on that facility will be removed.

\( t^1 \) = Virtual trunk facility number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

\( u^1 \) = Virtual trunk channel number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

\( v^1 \) = Optical interface unit (OIU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
ω¹ = Protection group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

x¹ = OC-3 STE number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

y¹ = STS level 1 (STS-1) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

b² = Link number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

c² = Virtual connection identifier (VCID) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

PF = Printout follows. The request has been accepted. Followed by the RMV:TRK output message.

RL = Retry later. The request has been denied, probably due to system load.

5. REFERENCES

Input Message(s):

OP:JOBSTATUS
RMV:LINE
RST:TRK
STP:CAMPON

Output Message(s):

REPT:CAMPON
RMV:TRK
REPT:TRK-SUM

Input Appendix(es):

APP:RANGES

Output Appendix(es):

APP:PORT-STATUS

Other Manual(s):

235-105-110 System Maintenance Requirements and Tools
235-190-104 IDSN Feature Description
235-200-115 CNI Common Channel Signaling
235-200-116 Signaling Gateway Common Channel Signaling
235-900-341 National ISDN Basic Rate Interface Specification
RMV:TTFCOM

Software Release: 5E14 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Requests that a transmission test facility common (TTFCOM) circuit pack be removed from service.

2. FORMAT

RMV:TTFCOM=a-b-c-d[,UCL];

3. EXPLANATION OF MESSAGE

UCL = Execute the removal unconditionally.

a = Switching module number.

b = Global digital service unit number.

c = Service group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

d = Board number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

NG = No good. The request has been denied. The message form is valid, but the request conflicts with current status.

PF = Printout follows. Followed by the RMV:TTFCOM output message.

RL = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

Output Message(s):

RMV:TTFCOM

Input Appendix(es):

APP:RANGES
RMV:TTY

Software Release: 5E14 and later
Command Group: AM
Application: 5,3B
Type: Input

1. PURPOSE
Requests that the specified teletypewriter (TTY) be removed from service.

2. FORMAT
RMV:TTY=a;

3. EXPLANATION OF MESSAGE

a = Member number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

PF = Printout follows. Followed by the RMV:TTY output message.

5. REFERENCES

Input Message(s):

DGN:TTYC
RMV:TTYC
RST:TTY
RST:TTYC

Output Message(s):

DGN:TTYC
RMV:TTY
RMV:TTYC
RST:TTY
RST:TTYC

Input Appendix(es):

APP:RANGES

Other Manual(s):
235-105-220 Corrective Maintenance
RMV:TTYC

Software Release: 5E14 and later
Command Group: AM
Application: 5,3B
Type: Input

1. PURPOSE

Requests that the specified teletypewriter controller (TTYC) and any associated teletypewriters be removed from service.

2. FORMAT

RMV:TTYC=a;

3. EXPLANATION OF MESSAGE

a = Member number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

PF = Printout follows. Followed by the RMV:TTYC output message.

5. REFERENCES

Input Message(s):

DGN:IOP
DGN:TTYC
RMV:IOP
RST:IOP
RST:TTYC

Output Message(s):

DGN:IOP
DGN:TTYC
RMV:IOP
RMV:TTYC
RST:IOP
RST:TTYC

Input Appendix(es):

APP:RANGES

Other Manual(s):

235-105-220 Corrective Maintenance
RMV:TUCHBD

Software Release: 5E14 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Requests that a trunk unit channel board (TUCHBD) be removed from service.

2. FORMAT

RMV:TUCHBD=a-b-c-d[,UCL];

3. EXPLANATION OF MESSAGE

UCL = Execute the removal unconditionally.

a = Switching module number.

b = Trunk unit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

c = Service group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

d = Channel board number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

NG = No good. The request has been denied. The message form is valid, but the request conflicts with current status.

PF = Printout follows. Followed by the RMV:TUCHBD output message.

RL = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

Output Message(s):

RMV:TUCHBD

Input Appendix(es):

APP: RANGES
1. PURPOSE

Requests that a universal conference (UCONF) circuit board be removed from service.

2. FORMAT

RMV:UCONF=a-b-c-d[,UCL];

3. EXPLANATION OF MESSAGE

<table>
<thead>
<tr>
<th>UCL</th>
<th>b</th>
<th>c</th>
<th>d</th>
</tr>
</thead>
</table>

4. SYSTEM RESPONSE

 NG = No good. The request has been denied. The message form is valid, but the request conflicts with current status.
 PF = Printout follows. Followed by the RMV:UCONF output message.
 RL = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

Output Message(s):

RMV:UCONF

Input Appendix(es):

APP: RANGES
RMV:UMBIL

Software Release: 5E14 and later
Command Group: SM
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Requests that a host umbilical (UMBIL) circuit be removed from service either conditionally, by waiting for it to become idle, or unconditionally, by preempting the current user. This message is applicable for host umbilicals terminating on a digital line and trunk unit (DLTU) or on a digital networking unit - synchronous optical network (DNU-S). This is an alternative way to address a remove of a host facility (HFAC) or a DS1 facility.

WARNING: Use of the UCL parameter may cause any calls/communication in progress to be terminated.

2. FORMAT

RMV:UMBIL=a-b-c[,UCL|REMAP];

3. EXPLANATION OF MESSAGE

   UCL        = Unconditionally execute the removal. Any calls/communication in progress using this circuit may be terminated.
   REMAP     = Move calls off of particular time slots with minimal disruption to the talk path during remove of this Umbilical.
   a          = Host Switch Module (HSM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
   b          = Host Switch Module (RSM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
   c          = UMBIL number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

   NG         = No good. The request has been denied. The message is valid but the request conflicts with current status.
   PF         = Printout follows. Followed by the RMV:UMBIL output message.
   RL         = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

Input Message(s):
Output Message(s):

RMV: UMBIL

Input Appendix(es):

APP: RANGES

Other Manual(s):
235-105-110 System Maintenance Requirements and Tools
235-105-220 Corrective Maintenance

MCC Display Page(s):

1740,xxx,yyy (HOST UMBILICALS (1 - 10))
1741,xxx,yyy (HOST UMBILICALS (11 - 20))
RMV:UTD

Software Release: 5E14 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Requests that a universal tone decoder (UTD) board be removed from service. A preempt will be executed only if
the office out-of-service limit is not exceeded by this remove request. The office out-of-service limit for UTDs is 60%
of the totally equipped UTDs.

2. FORMAT

RMV:UTD=a-b-c-d[,UCL];

3. EXPLANATION OF MESSAGE

UCL  = Executes the removal of the UTD unconditionally, unless removing it will result in a loss of call
processing.

a  = Switching module (SM) number.

b  = Local digital service unit (DSU) number. Refer to the APP:RANGES appendix in the Appendixes
section of the Input Messages manual.

c  = Service group number. Refer to the APP:RANGES appendix in the Appendixes section of the
Input Messages manual.

d  = DSU board position number. Refer to the APP:RANGES appendix in the Appendixes section of
the Input Messages manual.

4. SYSTEM RESPONSE

NG  = No good. The request has been denied. The message form is valid, but the request conflicts with
current status.

PF  = Printout follows. Followed by the RMV:UTD output message.

RL  = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

Output Message(s):

RMV:UTD

Input Appendix(es):

APP: RANGES
**RMV:UTG**

**Software Release:** 5E14 and later  
**Command Group:** SM  
**Application:** 5  
**Type:** Input

1. **PURPOSE**

Requests that a universal tone generator (UTG) board be removed from service. A preempt will be executed only if the office out-of-service limit is not exceeded by this remove request. The office out-of-service limit for UTGs is 50% of the totally equipped UTGs.

2. **FORMAT**

RMV:UTG=a-b-c-d[,UCL];

3. **EXPLANATION OF MESSAGE**

   - **UCL** = Executes the removal of the UTG unconditionally, unless removing it will result in a loss of call processing.
   - **a** = Switching module (SM) number.
   - **b** = Local digital service unit (DSU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
   - **c** = Service group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
   - **d** = DSU board position number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. **SYSTEM RESPONSE**

   - **NG** = No good. The request has been denied. The message form is valid, but the request conflicts with current status.
   - **PF** = Printout follows. Followed by the RMV:UTG output message.
   - **RL** = Retry later. The request cannot be executed now due to unavailable system resources.

5. **REFERENCES**

**Output Message(s):**

RMV:UTG

**Input Appendix(es):**

APP:RANGES
RMV:VIOP

Software Release: 5E16(2) and later
Command Group: AM
Application: 5,3B
Type: Input

1. PURPOSE

Requests that the specified virtual input/output processor (VIOP) and any associated peripheral controllers (PCs) be removed from service.

2. FORMAT

RMV:VIOP=a;

3. EXPLANATION OF MESSAGE

a = Member number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

PF = Printout follows. Followed by the RMV:VIOP output message.

5. REFERENCES

Input Message(s):

RST:VIOP

Input Appendix(es):

APP:RANGES

Other Manual(s):

235-105-220 Corrective Maintenance

MCC Display Page(s):

COMMON PROCESSOR
RMV:VNCR

Software Release: 5E14 and later
Command Group: SM
Application: 7
Type: Input

1. PURPOSE

Requests that a virtual network conference resource (VNCR) be removed from service.

2. FORMAT

RMV:VNCR=a-b[,UCL];

3. EXPLANATION OF MESSAGE

UCL = Execute the removal unconditionally.

a = Switching module number.

b = Virtual network conference resource number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

NG = No good. The request has been denied. The message form is valid but the request conflicts with current status.

PF = Printout follows. Followed by the RMV:VNCR output message.

RL = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

Output Message(s):

RMV:VNCR

Input Appendix(es):

APP: RANGES
**RMV:VT15**

Software Release: 5E16(1) and later  
Command Group: SM  
Application: 5  
Type: Input  

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Requests that a virtual tributary - level 1.5 (VT15) be removed from service either conditionally, by waiting for it to become idle, or unconditionally, by preempting the current user.

**WARNING:** Unconditional removal of a facility may result in loss of calls.

2. FORMAT

RMV:VT15=a-b-c-d-e-f-g[,UCL];

3. EXPLANATION OF MESSAGE

<table>
<thead>
<tr>
<th>UCL</th>
<th>= Unconditionally execute the removal.</th>
</tr>
</thead>
<tbody>
<tr>
<td>a</td>
<td>= Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.</td>
</tr>
<tr>
<td>b</td>
<td>= Optical interface unit (OIU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.</td>
</tr>
<tr>
<td>c</td>
<td>= Protection group (PG) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.</td>
</tr>
<tr>
<td>d</td>
<td>= Optical carrier - level 3 (OC3) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.</td>
</tr>
<tr>
<td>e</td>
<td>= Synchronous transport signal - level 1 (STS1) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.</td>
</tr>
<tr>
<td>f</td>
<td>= VT15 group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.</td>
</tr>
<tr>
<td>g</td>
<td>= VT15 member number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.</td>
</tr>
</tbody>
</table>

4. SYSTEM RESPONSE

| NG    | = No good. The message form is valid, but the request conflicts with current status. |
| PF    | = Printout follows. Followed by the RMV:VT15 output message. |
| RL    | = Retry later. The request cannot be executed now due to unavailable system resources. |
5. REFERENCES

Input Message(s):

   ABT: VT15
   RST: VT15
   STP: VT15

Output Message(s):

   RMV: VT15

Input Appendix(es):

   APP: RANGES

Other Manual(s):

   235-105-110    System Maintenance Requirements and Tools
   235-105-220    Corrective Maintenance

MCC Display Page(s):

   1492    OIU STS1 STATUS
RMV:VT1FAC

Software Release: 5E14 and later
Command Group: SM
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Requests that a digital networking unit - synchronous optical network (DNU-S) virtual tributary level 1 facility (VT1FAC) be removed from service.

WARNING: An unconditional removal of a VT1FAC will result in preempting stable calls.

For a very compact digital exchange (VCDX) switching module (SM) with common channel signaling (CCS7) access on a packet switching unit (PSU), a VT1FAC can be conditionally removed only if any CCS signaling data links (SDLs) on this facility are manually removed first, or if the SDL parent CCS links (CCSLKs) are manually deactivated. In addition, an unconditional (UCL) removal of a VT1FAC may impact CCS operations.

2. FORMAT

RMV:VT1FAC=a-b-c-d-e-f-g[,UCL];

3. EXPLANATION OF MESSAGE

UCL = Executes removal unconditionally.

a = Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

b = Digital Networking Unit - SONET (DNU-S) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

c = Data group (DG) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

d = SONET Termination Equipment (STE) facility number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

e = Synchronous Transport Signal (STS) facility number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

f = Virtual tributary group (VTG) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

g = Virtual tributary member (VTM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE
NG = No good. The message form is valid, but the request conflicts with current status.

PF = Printout follows. Followed by the RMV:VT1FAC output message.

RL = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

Input Message(s):

    ABT:VT1FAC
    RST:VT1FAC
    STP:VT1FAC

Output Message(s):

    RMV:VT1FAC

Input Appendix(es):

    APP:RANGES

Other Manual(s):

    235-105-110  System Maintenance Requirements and Tools
    235-105-220  Corrective Maintenance
    235-190-120  Common Channel Signaling Services Features

MCC Display Page(s):

    1511  (DNUS STS MAINTENANCE)
RMV:VTTY

Software Release: 5E16(2) and later
Command Group: AM
Application: 5,3B
Type: Input

1. PURPOSE

Requests that the specified virtual teletypewriter (VTTY) be removed from service.

2. FORMAT

RMV:VTTY=a;

3. EXPLANATION OF MESSAGE

a = Member number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

PF = Printout follows. Followed by the RMV:VTTY output message.

5. REFERENCES

Input Message(s):

RMV:VTTY
RST:VTTY
RST:VTTYC

Input Appendix(es):

APP:RANGES

Other Manual(s):

235-105-220  Corrective Maintenance
RMV:VTTYC

Software Release: 5E16(2) and later
Command Group: AM
Application: 5,3B
Type: Input

1. PURPOSE

Requests that the specified virtual teletypewriter controller (VTTYC) and any associated virtual teletypewriters be removed from service.

2. FORMAT

RMV:VTTYC=a;

3. EXPLANATION OF MESSAGE

a = Member number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

PF = Printout follows. Followed by the RMV:VTTYC output message.

5. REFERENCES

Input Message(s):

RMV:VIOP
RST:VIOP
RST:VTTYC

Input Appendix(es):

APP:RANGES

Other Manual(s):

235-105-220 Corrective Maintenance
67. RST
RST:AIUCOM

Software Release: 5E14 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Requests that an access interface unit common data and control controller (COMDAC) be restored to service. If this is a restore from duplex failure, the COMDAC will be restored to the active major state, otherwise the COMDAC will be restored to active minor.

2. FORMAT

RST:AIUCOM=a-b-c[,CAMPON=d][,UCL];

3. EXPLANATION OF MESSAGE

UCL = Restore unconditionally without diagnostics.

a = Switching module (SM) number.

b = AIU number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

c = COMDAC number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

d = Camp-on time is minutes (0-20). If CAMPON is not specified, camp-on time defaults to 6 minutes. Maximum time allowed is 20 minutes.

4. SYSTEM RESPONSE

NG = No good. The message form is valid, but the request conflicts with current status.

PF = Printout follows. Followed by the RST:AIUCOM output message.

RL = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

Output Message(s):

RST:AIUCOM

Input Appendix(es):

APP: RANGES

MCC Display Page(s):
RST:AIULC

Software Release: 5E14 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Requests that an access interface unit (AIU) line circuit (LC) be restored to service.

2. FORMAT

RST:AIULC=a-b-c-d[,CAMPON=e][,UCL];

3. EXPLANATION OF MESSAGE

UCL = Restore unconditionally without diagnostics.

a = Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

b = AIU number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

c = LP number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

d = LC number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

e = Camp-on time is minutes (0-20). If CAMPON is not specified, camp-on time defaults to 6 minutes. Maximum time allowed is 20 minutes.

4. SYSTEM RESPONSE

NG = No good. The message form is valid, but the request conflicts with current status.

PF = Printout follows. Followed by the RST AIULC output message.

RL = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

Output Message(s):
RST:AIULC

Input Appendix(es):
APP: RANGES
MCC Display Page(s):

1323.y,z,x (AIU AP STATUS)
RST:AIULP
Software Release: 5E14 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE
Requests that an access interface unit (AIU) line pack (LP) be restored to service.

2. FORMAT
RST:AIULP=a-b-c[,CAMPON=d][,UCL];

3. EXPLANATION OF MESSAGE

UCL = Restore unconditionally without diagnostics.

a = Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

b = Access interface unit (AIU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

c = LP number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

d = Camp-on time is minutes (0-20). If CAMPON is not specified, camp-on time defaults to 6 minutes. Maximum time allowed is 20 minutes.

4. SYSTEM RESPONSE

NG = No good. The message form is valid, but the request conflicts with current status.

PF = Printout follows. Followed by the RST:AIULP output message.

RL = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

Output Message(s):

RST:AIULP

Input Appendix(es):

APP:RANGES

MCC Display Page(s):
RST:AIUPIDB

Software Release: 5E14 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE
Requests that an access interface unit (AIU) timeslot group (TSGRP) be restored to service.

2. FORMAT
RST:AIUTSGRP=a-b-c-d[,CAMPON=e][,UCL];

3. EXPLANATION OF MESSAGE

| UCL  | = Restore unconditionally without diagnostics. |
| a    | = Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual. |
| b    | = AIU number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual. |
| c    | = LP number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual. |
| d    | = TSGRP number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual. |
| e    | = Camp-on time is minutes (0-20). If CAMPON is not specified, camp-on time defaults to 6 minutes. Maximum time allowed is 20 minutes. |

4. SYSTEM RESPONSE

| NG   | = No good. The message form is valid, but the request conflicts with current status. |
| PF   | = Printout follows. Followed by the RST AIUTSGRP output message. |
| RL   | = Retry later. The request cannot be executed now due to unavailable system resources. |

5. REFERENCES

Output Message(s):
RST:AIUTSGRP

Input Appendix(es):
APP:RANGES
MCC Display Page(s):

1321,y,x (AIU TSGRP SUMMARY)
RST:AIURG

Software Release: 5E14 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Requests that an access interface unit (AIU) ring generator (RG) be restored to service.

2. FORMAT

RST:AIURG=a-b-c[,UCL];

3. EXPLANATION OF MESSAGE

UCL = Restore unconditionally without diagnostics.

a = Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

b = AIU number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

c = RG number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

NG = No good. The message form is valid, but the request conflicts with current status.

PF = Printout follows. Followed by the RST:AIURG output message.

RL = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

Output Message(s):

RST:AIURG

Input Appendix(es):

APP:RANGES

MCC Display Page(s):

1320.y,x (AIU SUMMARY)
1322.y,x (AIU RG STATUS)
RST:ALINK

Software Release: 5E14 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Requests that a line unit model 2 (LU2) or a line unit model 3 (LU3) A-link be restored to the active state.

2. FORMAT

RST:ALINK=a-b-c-d-e[,UCL];

3. EXPLANATION OF MESSAGE

a = Switching module number.
b = Line unit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
c = Line unit grid number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
d = Board number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
e = Line unit A-link number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

NG = No good. The request has been denied, the message form is valid, but the request conflicts with current status.
PF = Printout follows. Followed by RST:ALINK output message.
RL = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

Output Message(s):
RST:ALINK

Input Appendix(es):
APP: RANGES
RST:ALIT

Software Release: 5E14 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Requests that an automatic line insulation test (ALIT) board in a metallic service unit (MSU) be conditionally or unconditionally restored to service.

If restored conditionally, the diagnostic will be run. All tests must pass before the unit will be restored to service. If restored unconditionally, no testing will be performed.

2. FORMAT

RST:ALIT=a-b-c-d[,UCL];

3. EXPLANATION OF MESSAGE

UCL = Restores unconditionally.

a = Switching module number.

b = MSU number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

c = Service group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

d = MSU board number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

PF = Printout follows. Followed by RST:ALIT output message.

5. REFERENCES

Output Message(s):

RST:ALIT

Input Appendix(es):

APP:RANGES
RST:ASC

Software Release: 5E14 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Requests that a remote switching module (RSM), optical remote switching module (ORM), or two-mile remote switching module (TRM) alarm and status circuit (ASC) be restored to service.

2. FORMAT

RST:ASC=a[,UCL];

3. EXPLANATION OF MESSAGE

UCL = Return the circuit to service unconditionally (without diagnostic testing).

a = Switching module (SM) number.

4. SYSTEM RESPONSE

NG = No good. Request denied because of a conflict with current status.

PF = Printout follows. Followed by the RST:ASC output message.

5. REFERENCES

Input Message(s):

RMV:ASC

Output Message(s):

RST:ASC

Other Manual(s):

235-105-110  System Maintenance Requirements and Tools
RST:BICCCADN

Software Release: 5E16(1) and later
Command Group: TRKLN
Application: 5
Type: Input

1. PURPOSE

Requests the restoration of a single bearer-independent call control (BICC) block to service and the removal of all
the call instance codes (CICs) of the specified block from the circuit administration (CADN) out-of-service (OOS) list
and their restoration to the in-service (IS) state. Only those CIC members that are initially in the OOS CADN state
will be considered as being included in the RST:BICCCADN command, and CICs in any other state will be
considered as being excluded by the input message.

The provisioned CICs required by the BICC protocol for each origination point code (OPC) and destination point
code (DPC) are divided into blocks of 128 and are stored on switching module (SM)-2000(s). that is provisioned as
being BICC-capable. The command sends a BICC circuit group reset (GRS) message to the far end to unblock the
included BICC CICS. Any CICs in the BICC block

2. FORMAT

RST:BICCCADN,BGMN=a-b&&c;

3. EXPLANATION OF MESSAGE

a = BICC trunk group number. Refer to the APP:RANGES appendix in the Appendixes section of the
Input Messages manual.

b = CIC for first member of the BICC CIC block.

The member range must represent exactly one BICC CIC block (that is, BGMN=7000-0&&127).
The range of a CIC BICC block is 128 (i.e. 0&&127, 128&&255, etc.).

c = CIC for last member of the BICC CIC block.

The member range must represent exactly one BICC CIC block (that is, BGMN=7000-0&&127).
The range of a CIC BICC block is 128 (i.e. 0&&127, 128&&255, etc.).

4. SYSTEM RESPONSE

PF = Printout follows. The request has been accepted and an OP:SS7 output message will follow.

NG = No good. May also include:
 – BAD CIC INPUT = The craft entered a member range that is incorrect.
 – STARTING CIC NOT AT BEGINNING OF BLOCK = The starting CIC is not at the beginning of
    a BICC CIC block.
 – RANGE OF CICS INCORRECT = The ranges of CICs is not an exact BICC CIC block.

5. REFERENCES

Output Message(s):
RST: BICCCADN

Other Manual(s):
235-200-115  CNI Common Channel Signaling
235-200-116  Signaling Gateway Common Channel Signaling
RST:BTSR

Software Release: 5E14 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Requests that the bootstrapper boards (BTSR) be restored to the active state.

If restoration is conditional, then the diagnostic will be run. All tests must be passed before the units are restored to service. If restoration is unconditional, then no testing is performed.

2. FORMAT

RST:BTSR=a[&&b][,UCL];

3. EXPLANATION OF MESSAGE

UCL = Execute the restoration unconditionally.

a = Switching module (SM) number, or lower limit for a range of SMs.

b = Upper limit for a range of SMs.

4. SYSTEM RESPONSE

PF = Printout follows. An RST:BTSR output message will follow.

5. REFERENCES

Output Message(s):

RST:BTSR
RST:CCSLK

**Software Release:** 5E14 and later  
**Command Group:** CCS  
**Application:** 5  
**Type:** Input

1. PURPOSE

Restores service to a common channel signaling (CCS) link(s) by removing the deactivating, inhibiting, or blocking status on that link(s).

Note: This input message is applicable only for packet switching unit (PSU) platform CCS7.

2. FORMAT

RST:CCSLK,SET=a[&b],MEMBER=c[&d],STATE=e[,SM=f];

3. EXPLANATION OF MESSAGE

- **a** = Link set number or lower limit of a range of link set numbers. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual. When a range is specified, only equipped numbers in the range will be processed. The range of numbers need not start or end with equipped link set numbers.

- **b** = Upper limit of a range of link set numbers.

- **c** = Link member number or lower limit of a range of link member numbers. When a range is specified, only equipped numbers in the range will be processed. Range of numbers need not start or end with equipped link member numbers.

- **d** = Upper limit of a range of link member numbers.

- **e** = Link state. Valid value(s):
  - **BLK** = Removes the block status from a link(s).
  - **DACT** = Removes the deactivated status from a link(s).
  - **INH** = Removes the inhibit status from a link(s).

- **f** = Global switching module (GSM) number. CCS GSM number on which the link to be restored terminates. If no SM number is specified and only one CCS GSM exists in the office, the specified link on that CCS GSM will be processed. If multiple CCS GSMs exist in the office, the SM must be specified.

4. SYSTEM RESPONSE

- **NG** = No good. May also include:
  - **GSM MISMATCH** = The specified SM is not a GSM or the SM does not exist.
  - **NO GLOBAL SM** = No GSM is provisioned in the office.
  - **NEED GSM NUMBER** = SM was not specified in the input message, and office has more than one GSM provisioned.
PF = Printout follows. Followed by the RST:CCSLK output message.

RL = Retry later. May also include:
   - SM NOT AVAILABLE = Command cannot be processed because the specified GSM is not accessible.

5. REFERENCES

Output Message(s):

   REPT:CCSLK
   RST:CCSLK

Input Appendix(es):

   APP:RANGES

Other Manual(s):

235-190-120  Common Channel Signaling Service Features

MCC Display Page(s):

   1532 (CCS LINK SET SUMMARY)
   1533 (CCS LINK SET MEMBER)
RST:CDFI

Software Release: 5E14 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE
Requests that an inter-remote switching module (RSM) communication link digital facilities interface (CDFI) circuit be restored to service.

2. FORMAT
RST:CDFI=a-b-c[,UCL];

3. EXPLANATION OF MESSAGE

<table>
<thead>
<tr>
<th>UCL</th>
<th>= Return the circuit to service unconditionally (without diagnostic testing).</th>
</tr>
</thead>
<tbody>
<tr>
<td>a</td>
<td>= Switching module (SM) number.</td>
</tr>
<tr>
<td>b</td>
<td>= Digital line and trunk unit (DLTU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.</td>
</tr>
<tr>
<td>c</td>
<td>= CDFI number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.</td>
</tr>
</tbody>
</table>

4. SYSTEM RESPONSE

<table>
<thead>
<tr>
<th>NG</th>
<th>= No good. The message syntax is valid, but the request conflicts with current system or equipment status.</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>- NOT STARTED UNIT IN GROWTH STATE</td>
</tr>
<tr>
<td></td>
<td>- SM DOES NOT EXIST</td>
</tr>
<tr>
<td></td>
<td>- SM UNEQUIPPED</td>
</tr>
<tr>
<td></td>
<td>- UNIT DOES NOT EXIST</td>
</tr>
<tr>
<td>PF</td>
<td>= Printout follows. An RST:CDFI output message follows in response to the request.</td>
</tr>
<tr>
<td>RL</td>
<td>= Retry later. The request cannot be executed now due to unavailable system resources.</td>
</tr>
</tbody>
</table>

5. REFERENCES

Input Message(s):

RMV:CDFI

Output Message(s):

RST:CDFI
Input Appendix(es):

APP : RANGES
RST:CDI
Software Release: 5E14 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Requests that a trunk unit control data interface (CDI) be restored to service.

If restored conditionally, the diagnostic will be run. All tests must pass before the unit will be restored to service. If restored unconditionally, no testing is performed.

2. FORMAT

RST:CDI=a-b-c[,UCL];

3. EXPLANATION OF MESSAGE

UCL = Restore unconditionally (without diagnosis).

a = Switching module number.

b = Trunk unit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

c = Service group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

PF = Printout follows. Followed by RST:CDI output message.

5. REFERENCES

Output Message(s):

RST:CDI

Input Appendix(es):

APP:RANGES
RST:CLNK

Software Release: 5E14 and later
Command Group: CM
Application: 5
Type: Input

1. PURPOSE

Requests that one or all of the specified communication links (CLNKs) be restored to an available state ('hardware available', 'active' or 'ready for level 2').

2. FORMAT

RST:CLNK{=a-b-c-d|,ALL};

3. EXPLANATION OF MESSAGE

ALL = Restore all communication links that are in an out-of-service fault or manual removed state.

It is not an error to request 'ALL' with no communication links in an out-of-service fault or manual removed state.

a = Switching module (SM) number.

b = Office network and timing complex (ONTC) side (0 or 1).

c = Module message processor (MMP) type. Valid value(s):
   0 = Alpha.
   1 = Beta.

d = Message switch (MSGS) side (0 or 1).

4. SYSTEM RESPONSE

NG = No good. May also include:
   - ALL NOT VALID WITH A SINGLE UNIT = A single CLNK and ALL may not be specified together.
   - UNIT UNEQUIPPED = The specified single CLNK is unequipped.

PF = Printout follows. A printout will follow when the requested action is completed.

5. REFERENCES

Input Message(s):

OP:CFGSTAT
RMV:CLNK

Output Message(s):
OP: CFGSTAT
RST: CLNK

Other Manual(s):
235-105-220 Corrective Maintenance

MCC Display Page(s):
(CLNK SUMMARY)
RST:CMP

Software Release: 5E14 and later
Command Group: CM
Application: 5
Type: Input

1. PURPOSE

Requests a conditional or unconditional restore of a communication module processor (CMP) to the active or standby state.

Note: For conditional restores, if the unit is not OOS, the system will first remove the unit conditionally.

2. FORMAT

RST:CMP=a-b[,UCL][,STBY];

3. EXPLANATION OF MESSAGE

STBY = Restore the CMP to the standby state rather than the active state (the default).

UCL = Restore the CMP unconditionally. No diagnostics are performed.

Note: For offices having CM3 vintage communications modules, the restore will always be run unconditionally, with or without the UCL parameter.

a = Message switch side number.

b = CMP number.

4. SYSTEM RESPONSE

NG = No good. The request has been denied. The message syntax is valid, but the request could not be processed. Refer to the APP:CM-IM-REASON appendix in the Appendixes section of the Input Messages manual for a list of possible reasons for denying the request.

PF = Printout follows. Followed by a RST:CMP output message.

RL = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

Input Appendix(es):

APP:CM-IM-REASON

Output Message(s):

DGN:CMP
RST:CMP
Other Manual(s):
235-105-110  System Maintenance Requirements and Tools
235-105-220  Corrective Maintenance
235-105-250  System Recovery Procedures

MCC Display Page(s):

1241, 1251 (MSGS COMMUNITIES)
1240, 1250 (MSGS STATUS for CM3)
RST:CPE

Software Release: 5E14 and later
Command Group: TRKLN
Application: 5
Type: Input

1. PURPOSE

Requests that a specified customer premises equipment (CPE) integrated services digital network (ISDN) terminal on custom multi-point (MP) and standard interface digital subscriber line (DSL) be restored to service.

This input message will restore service to a CPE that has previously been removed from service manually with the RMV:CPE input message. If a CPE has been removed from service automatically by the network, this input message will attempt to restore the CPE back to service, but if the CPE is illegally configured on the DSL, then the CPE will stay out-of-service (OOS). If the CPE restored to service is a member of modem pool group, the "OOS FE MPOOS AUTO" status on the analog port of this member is deleted. An alternative method of restoring all CPE on a single DSL is to remove the entire DSL using the RMV:LINE input message and then to restore the line using RST:LINE. However, this will remove all services to all subscribers on the DSL while the DSL is OOS.

2. FORMAT

RST:CPE,a[,TEI=h][,UCL];

3. EXPLANATION OF MESSAGE

a  = Equipment number or identifier. Valid value(s):
   AIUEN=d-o-p-q
   DN=r
   ILEN=d-i-j-k
   INEN=d-s-j-k
   LCEN=d-e-f-g
   LCKEN=d-e-l-m-n
   MLHG=b-c
   PKTDN=r

b  = Multi-line hunt group (MLHG) number of the subscriber associated with the CPE. This option is only valid if a CPE has identified itself as being associated with that MLHG subscriber.

c  = Multi-line hunt member number of the subscriber.

d  = Switching module (SM) in which the DSL exists.

e  = Integrated services line unit (ISLU) or ISLU version 2 (ISLU2) in which the DSL exists. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

f  = Line group controller (LGC) in the ISLU in which the DSL exists. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

g  = Line card of the ISLU line group controller to which the DSL connects. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

h  = Terminal endpoint identifier (TEI) that identifies the particular CPE to be restored. The ILEN|INEN|LCEN|LCKEN/TEI identification can be used to restore any out-of-service (OOS) CPE
on a DSL It is the only way to restore a CPE that is not associated with a specific subscriber on the DSL (for example, a CPE that is receiving default service). The TEI is dynamically assigned to a CPE when the CPE establishes its layer 2 connection with the network. The trunk and line work station (TLWS) DSL display or the OP:CPE input message can be used to determine what CPEs currently have layer 2 established on the DSL and what TEI has been assigned to each CPE.

\( i \) = Integrated digital carrier unit (IDCU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

\( j \) = Remote terminal (RT) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

\( k \) = RT line number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

\( l \) = Line group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

\( m \) = Line board number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

\( n \) = Line circuit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

\( o \) = Access interface unit (AIU) Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

\( p \) = AIU pack number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

\( q \) = AIU circuit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

\( r \) = Circuit directory number (DN) or packet directory number (PKTDN) of the subscriber associated with the CPE. This option is only valid if a CPE exists which has identified itself as being associated with that subscriber. For key-system services, only primary DNs are valid. For non-key-system services, any DN associated with the

\( s \) = Digital network unit - synchronous optical network (SONET) (DNU-S) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

\( NG \) = No good. The input request was in some way invalid, most likely because a value was out of range. Identify the error with the original request and repeat the request.

\( PF \) = Printout follows. The requested action has been accepted and is being processed. A RST:CPE output message will be printed showing the outcome of the request.

5. REFERENCES

Input Message(s):
OP: CPE
RMV: CPE
RMV: LINE
RST: LINE

Output Message(s):

RST: CPE

Input Appendix(es):

APP: RANGES

MCC Display Page(s):

160 (TRUNK & LINE MAINT)
RST:CU

Software Release: 5E14 and later
Command Group: AM
Application: 5,3B
Type: Input

1. PURPOSE

Requests that a control unit (CU) be restored to standby status. If restored conditionally, a complete CU diagnostic will be run and must be all tests pass (ATP) before the unit is restored to service. If restored unconditionally, no testing will be performed.

2. FORMAT

RST:CU=a[:UCL[:RAW]][,TLP];

3. EXPLANATION OF MESSAGE

RAW = Print the diagnostic results of every phase. Default is the first five failures of each failing phase.

TLP = Execute the trouble locating procedure (TLP) at the conclusion of the diagnostic. This process generates a list of suspected faulty equipment.
Note: The TLP and UCL parameters should not be used together, as no testing is performed on an unconditional restore.

UCL = Restore unconditionally. (The default is conditional restoration).

a = Member number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

PF = Printout follows. Followed by RST:CU output message. If UCL is not specified, a DGN:CU output message is also printed.

5. REFERENCES

Input Message(s):

DGN:CU
RMV:CU

Output Message(s):

ANALY:TLPFILE
DGN:CU
RMV:CU
RST:CU
Input Appendix(es):

APP : RANGES

Other Manual(s):
235-105-220  Corrective Maintenance

MCC Display Page(s):

(COMMON PROCESSOR)
1. PURPOSE

Requests the restoration of a data link to service by deletion of the specified out-of-service (OOS) status. When all OOS statuses have been deleted, the data link will be restored to service.

Up to four independent OOS conditions can exist simultaneously on a data link. Refer to the APP:PORT-STATUS appendix in the Appendixes section of the Output Messages manual for a more detailed explanation of statuses that apply to data links. A data link can be identified by its type (such as, AP, DASC, and so forth) and group and relative link number or by its equipment number (LCEN, LCKEN, INEN, ILEN, or AIUEN). If the data link is busy when the request is made, it will be camped on for up to 20 minutes. If a camp-on is started, a REPT:CAMPON output message will be generated. The camp-on can then be terminated by a STP:CAMPON input message, if desired.

2. FORMAT

RST:DATALINK,a[,CH=b][[:c][,d][,e][,f]];

3. EXPLANATION OF MESSAGE

a = Valid value(s):

<table>
<thead>
<tr>
<th>Status</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>AIUEN</td>
<td>k-d₁-e₁-f₁</td>
</tr>
<tr>
<td>AP</td>
<td>g-h</td>
</tr>
<tr>
<td>AQ</td>
<td>g-h</td>
</tr>
<tr>
<td>DASC</td>
<td>g-h</td>
</tr>
<tr>
<td>EIS</td>
<td>s-t</td>
</tr>
<tr>
<td>HOBICR</td>
<td>g-h</td>
</tr>
<tr>
<td>HOBICV</td>
<td>g-h</td>
</tr>
<tr>
<td>HOBIS</td>
<td>g-h</td>
</tr>
<tr>
<td>ILEN</td>
<td>k-u-v-w</td>
</tr>
<tr>
<td>INEN</td>
<td>k-e₁-v-w</td>
</tr>
<tr>
<td>LCEN</td>
<td>k-l-m-n</td>
</tr>
<tr>
<td>LCKEN</td>
<td>k-l-z-a₁-b₁</td>
</tr>
<tr>
<td>MISLNK</td>
<td>g-h</td>
</tr>
<tr>
<td>OAPF</td>
<td>n</td>
</tr>
<tr>
<td>GAPO</td>
<td>y</td>
</tr>
<tr>
<td>RAS</td>
<td>g-h</td>
</tr>
<tr>
<td>RTRS</td>
<td>g-h</td>
</tr>
<tr>
<td>XDB</td>
<td>g-h</td>
</tr>
</tbody>
</table>

b = Channel identifier [D (default), B1, or B2].

If this option is not specified or if the D-channel is specified, an attempt will be made to restore the D-channel and all on-demand service B-channels, but permanent packet B-channels will not be restored. If a B-channel is specified, only that B-channel will be restored to service.

The channel identifier is ignored for Operator Services Position System (OSPS) digital subscriber lines (DSLs) serving basic services terminals (BSTs) and operator position terminals (OPTs). For BST and OPT DSLs, the entire DSL will be restored to service even if only the D-channel or a B-channel is specified in the input request.

Status subfields are always separated by a single comma, even if in-between statuses are omitted (as in OOS,DSBLD).

c = Basic state. Valid value(s):

<table>
<thead>
<tr>
<th>Status</th>
<th>Value</th>
</tr>
</thead>
</table>
| ALL    | If entered, no other status fields need be specified and all existing status information (primary and pending) will be removed for the specified line(s). This will result in the line(s) being placed in service (IS). Care should be exercised when using this option because restoring lines that are OOS, MTCE, FE, or FAF could result in undesired effects (that is, PORTLA audit failures, and so forth).
OOS = Out-of-service (default).

d = Qualifier (choose one or omit). Valid value(s):
BLKD = Blocked. If basic state field 'c' is not specified, it will be defaulted to OOS.
CADN = Circuit administration. If basic state field 'c' is not specified, it will be defaulted to OOS.
CUTOVER = Cutover (pre-cut) inactive state. If basic state field 'c' is not specified, it will be defaulted to OOS.
DSLINIT = DSL initialization. If basic state field 'c' is not specified, it will be defaulted to OOS.
MKBUSY = Make busy. If basic state field 'c' is not specified, it will be defaulted to OOS.
MTCE = Maintenance (default). If basic state field 'c' is not specified, it will be defaulted to OOS.
PPSRV = Pre-post service. If basic state field 'c' is not specified, it will be defaulted to OOS.
TMT = Traffic management (valid only for outgoing trunks). If basic state field 'c' is not specified, it will be defaulted to OOS.

Note: If the entire port status is omitted, the status will default to OOS, MTCE, and DSBLD. If a status sub-field is entered without entering the previous sub-field, the default values indicated will be assumed.

e = Operational restrictions (choose one or omit). Valid value(s):
DSBLD = Disabled (default). If qualifier field 'd' is not specified, it will be defaulted to MTCE.
DCHOOS = D-channel is OOS. If qualifier field 'd' is not specified, it will be defaulted to MTCE.
HW = High and wet. If qualifier field 'd' is not specified, it will be defaulted to MTCE.
LVL1ERR = Level 1 protocol error. If qualifier field 'd' is not specified, it will be defaulted to MTCE.
LVL2ERR = Level 2 protocol error. If qualifier field 'd' is not specified, it will be defaulted to MTCE.
LVL3ERR = Level 3 protocol error. If qualifier field 'd' is not specified, it will be defaulted to MTCE.
PLGUP = Plug-up (currently no effect). If qualifier field 'd' is not specified, it will be defaulted to MTCE.
PX = Power cross. If qualifier field 'd' is not specified, it will be defaulted to MTCE.
RAP = Recorded announcement port. If qualifier field 'd' is not specified, it will be defaulted to MTCE.

Note: If the entire port status is omitted, the status will default to OOS, MTCE, and DSBLD. If a status sub-field is entered without entering the previous sub-field, the default values indicated will be assumed.

f = Supplementary information (choose one or omit). This field is used to record the reason for removal. Valid value(s):
AML = Automatic maintenance limit.
AQ = Autoquote problem.
AUDIT = Audit detected problem.
CAMa = Central automatic message accounting.
CAROT = Centralized automatic reporting on trunks.
CDI = Control and data interface.
CKT = Circuit.
CTTU = Central trunk testing unit.
DFI = Digital facility interface.
DLNORSP = Init response not received from data link.
DYGSPUS = Dying gasp under study.
FORPOT = Foreign potential.
GRD = Ground fault.
GRID = Line unit grid.
IAA = Ineffective attempt analysis.
ISLU = Integrated services line unit (ISLU).
L2QLTY = Poor level 2 transmission quality.
L2DOWN = Level 2 is inoperable.
LINK1 = The basic rate interface transmission extension (BRITE) link one is down.
LINK2 = The BRITE link two is down.
LINK3 = The BRITE link three is down.
LINK4 = The BRITE link four is down.
LINK5 = The BRITE link five is down.
LINK6 = The BRITE link six is down.
MPOOS = Modern pool line out of service.
MSMTCH = Mismatch.
MTCECH = Maintenance channel.
NR = No response.
NRT = No response while in test mode.
NTDACT = Network termination (NT) is deactivated.
NTOFN = NT off normal.
NTPWR = NT lost power.
OPNOXL3 = OSPS position no level 3 protocol.
PCTF = Per-call test failure.
POSNOB = OSPS position no B-channel.
POSNRSP = OSPS position no response.
PPM = Periodic pulse metering.
PSU = Packet switch unit.
REX = Routine exercise.
RO = Routine other.
ROTF = Operational trouble.
SCC = Switching control center.
SPARED = Line involved in ISLU sparing configuration.
STKSCN = Suspected stuck scan (STKSCN) lead on the line group controller (LGC) or the line card (LC).
SWEQF = Switch equipment failure.
TEST = In test mode.
TEST1 = Testing in progress at the NT or BRITE channel unit (CU) and the BRITE link one is down.
TEST2 = Testing in progress at the NT or BRITE CU and the BRITE link two is down.
TEST3 = Testing in progress at the NT or BRITE CU and the BRITE link three is down.
TEST4 = Testing in progress at the NT or BRITE CU and the BRITE link four is down.
TEST5 = Testing in progress at the NT or BRITE CU and the BRITE link five is down.
TEST6 = Testing in progress at the NT or BRITE CU and the BRITE link six is down.
TICOM = Treated interface common circuit.
TINTF = The T interface is down.
TRBL = Unspecified trouble.
TRBLORG = Origination trouble.
TREQF = Transmission equipment failure.
TRKBD = Trunk board.
TRKCT = Trunk circuit.
UINTF = The ANSI® standard U interface is down.
4. SYSTEM RESPONSE

PF = Printout follows. The request has been accepted and will be followed by a RST:DATALINK output message.

RL = Retry later. The request has been denied, probably due to system load.

5. REFERENCES

Input Message(s):

OP: STATUS
RMV:DATALINK
STP:CAMFON

Output Message(s):
REPT:CAMFON
RST:DATALINK

Input Appendix(es):
APP:RANGES
**RST:DCI**

**Software Release:** 5E14 and later  
**Command Group:** N/A  
**Application:** 5,3B  
**Type:** Input

1. **PURPOSE**

Restores a dual serial channel/computer interconnect (DCI), conditionally or unconditionally to service. If restored conditionally, a DCI diagnostic will be run and must be all tests pass (ATP) before the unit will be restored to service. If restored unconditionally, no testing will be performed.

2. **FORMAT**

```
RST:DCI=a[[[:UCL] [:RAW][:DATA[,TLP]]];
```

3. **EXPLANATION OF MESSAGE**

- **RAW**  
  = Print the diagnostic results of every phase. (The default is to print the first five failures of each failing phase).

- **TLP**  
  = Execute the trouble locating procedure (TLP) at the conclusion of the diagnostic. This process generates a list of suspected faulty equipment.

- **UCL**  
  = Restore unconditionally. (Default is conditional restoration).

**Note:** The TLP and UCL parameters should not be used together, as no testing is performed on an unconditional restore.

- a  
  = Member number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. **SYSTEM RESPONSE**

- **PF**  
  = Printout follows. Followed by a RST:DCI output message.

- **RL**  
  = Retry later. The system is in overload condition.

- **?D**  
  = General syntax error in the data field, followed by the parameter position and one of the following reasons:
  - EXTRA KEYWORD = Duplicate or extraneous keywords were input.
  - INVALID KEYWORD = The keyword in the stated parameter position is not a valid keyword.

- **?E**  
  = Input error of undetermined type.

- **?I**  
  = General syntax error, followed by the parameter position and one of the following reasons:
  - EXTRA KEYWORD = Duplicate or extraneous keywords were input.
  - MISSING KEYWORD = A required keyword is missing from the input.
  - INVALID KEYWORD = The keyword in the stated parameter position is not a valid keyword.
5. REFERENCES

Input Message(s):

DGN:DCI  
RMV:DCI  

Output Message(s):

ANALY:TLPPFILE  
DGN:DCI  
RMV:DCI  
RST:DCI  

Input Appendix(es):

APP:RANGES  

Other Manual(s):

235-105-220  Corrective Maintenance  

MCC Display Page(s):

(COMMON PROCESSOR DISPLAY)
RST:DCLU

Software Release: 5E14 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Requests that a SLC®96 digital carrier line unit (DCLU) be restored to service.

2. FORMAT

RST:DCLU=a-b-c[,UCL];

3. EXPLANATION OF MESSAGE

UCL = Restore unconditionally.
a = Switching module (SM) number.
b = DCLU number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
c = Service group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

NG = No good. The request has been denied. The message form is valid, but the request conflicts with current status.
PF = Printout follows. The request was accepted. The RST:DCLU output message follows.
RL = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

Output Message(s):

RST:DCLU

Input Appendix(es):

APP: RANGES
RST:DCTUCOM

Software Release: 5E14 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE
Requests that a single directly connected test unit common board (DCTUCOM) circuit be restored to service.

2. FORMAT
RST:DCTUCOM=a-b[,UCL];

3. EXPLANATION OF MESSAGE

UCL = Restore unconditionally.
a = Switching module (SM) number.
b = Directly connected test unit number.

4. SYSTEM RESPONSE
PF = Printout follows. Followed by RST:DCTUCOM output message.

5. REFERENCES
Output Message(s):
RST:DCTUCOM

Other Manual(s):
235-105-210 Routine Operations and Maintenance
235-105-220 Corrective Maintenance
RST:DCTUPORT

Software Release: 5E14 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Requests that a single directly connected test unit port circuit (DCTUPORT) circuit be restored to service.

If restored conditionally, the diagnostic will be run. All tests must pass before the unit will be restored to service. If restored unconditionally, no testing will be performed.

2. FORMAT

RST:DCTUPORT=a-b-c[,UCL];

3. EXPLANATION OF MESSAGE

UCL = Restore unconditionally.

a = Switching module number.

b = Directly connected test unit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

c = Circuit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

PF = Printout follows. Followed by RST:DCTUPORT output message.

5. REFERENCES

Output Message(s):

RST:DCTUPORT

Input Appendix(es):

APP:RANGES
RST:DFC

Software Release: 5E14 and later
Command Group: AM
Application: 5,3B
Type: Input

1. PURPOSE

Requests that a disk file controller (DFC) be restored to service. If restored conditionally, a DFC diagnostic will be run and must be all tests pass (ATP) before the unit will be restored to service. If restored unconditionally, no testing will be performed.

2. FORMAT

\[ \text{RST:DFC}=a\left[ [:UCL]\,|\,[CONT]\,|\,[:RAW]\,|\,[:DATA[,TLP[,CONT[,CU\,b]]]\right] ; \]

3. EXPLANATION OF MESSAGE

CONT = Restores only the DFC. (The default is to restore the DFC, all the SBUSs connected to this DFC and all associated moving head disks (MHDs)).

RAW = Print the diagnostic results of every phase. (The default is to print the first five failures of each failing phase).

TLP = Execute the trouble locating procedure (TLP) at the conclusion of the diagnostic. This process generates a list of suspected faulty equipment.
Note: The TLP and UCL parameters should not be used together, as no testing is performed on an unconditional restore.

UCL = Restore unconditionally. (The default is conditional restoration).

a = Member number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

b = Member number of the CU helper unit (0 or 1). When a helper unit is not required, the specified helper unit is ignored. When a helper unit is required but the specified helper unit is inappropriate or unavailable, the helper unit dependent tests are skipped. This off-line CU is required as a helper unit when demand phase 15 is executed.
Note: The helper CU must be out-of-service (OOS) and must be diagnosed as all tests pass (ATP) before it is used as a helper unit.

4. SYSTEM RESPONSE

PF = Printout follows. Followed by RST:DFC output message.

RL = Retry later. The system is in an overload condition.

5. REFERENCES
Input Message(s):
  DGN:DFC
  RMV:DFC
  RMV:MHD
  RMV:SBUS
  RST:MHD
  RST:SBUS

Output Message(s):
  ANALY:TLPFILE
  DGN:DFC
  RMV:DFC
  RMV:MHD
  RMV:SBUS
  RST:DFC
  RST:MHD
  RST:SBUS

Input Appendix(es):
  APP:RANGES

Other Manual(s):
  235-105-220  Corrective Maintenance

MCC Display Page(s):
  (COMMON PROCESSOR)
  123 (DISK FILE SYSTEM ACCESS)
RST:DFI

Software Release: 5E14 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Requests that a digital facility interface (DFI) be restored to service.

If restored conditionally, the diagnostic will be run. All tests must pass before the unit will be restored to service. If restored unconditionally, no testing will be performed.

2. FORMAT

RST:DFI=a-b-c[,UCL];

3. EXPLANATION OF MESSAGE

UCL = Restore unconditionally.

a = Switching module number.

b = Digital line/trunk unit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

c = DFI number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

PF = Printout follows. Followed by an RST:DFI output message.

5. REFERENCES

Output Message(s):

RST:DFI

Input Appendix(es):

APP:RANGES
RST:DFIH

Software Release: 5E14 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Requests that a remote integrated services line unit (RISLU) host/remote digital facility interface circuit pair (DFIH) be restored to the active state.

If the restoration is conditional, diagnostics will be run. All tests must pass before the unit will be restored to the active state. If the restoration is unconditional, no testing will be performed.

2. FORMAT

RST:DFIH=a-b-c[,CAMP=d][,UCL];

3. EXPLANATION OF MESSAGE

CAMP = Camp on.
UCL = Restore unconditionally.
a = Switching module (SM) number.
b = RISLU digital line and trunk unit (DLTU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
c = DFIH number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
d = Maximum of minutes allowed for camp on (CAMP) time. If CAMP is not specified, camp on defaults to 3 minutes. Maximum time allowed is 20 minutes.

4. SYSTEM RESPONSE

NG = No good. May also include:
- CONFLICT WITH UNIT STATE
- SM DOES NOT EXIST
- SM UNEQUIPPED
- UNIT DOES NOT EXIST

PF = Printout follows. An RST:DFIH output message follows in response to the request.

RL = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

Input Message(s):
RST:DFIH

Output Message(s):
   RMV:DFIH

Input Appendix(es):
   APP:RANGES

MCC Display Page(s):
   (RISLU DLTU)
RST:DFTAC

**Software Release:** 5E14 and later  
**Command Group:** SM  
**Application:** 5  
**Type:** Input

1. PURPOSE

Requests that the distributing frame test access circuit (DFTAC) be restored to the active state.

2. FORMAT

RST:DFTAC=a-b-c-d[,UCL];

3. EXPLANATION OF MESSAGE

- **UCL**  
  = Execute the restoration unconditionally. If restored conditionally, the diagnostic will be run. All tests must pass before the unit will be restored to service. If restored unconditionally, no testing will be performed.

- **a**  
  = Switching module number.

- **b**  
  = MSU number.

- **c**  
  = Service group. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

- **d**  
  = Circuit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

- **NG**  
  = No good. Invalid SM number, MSU number, or service group number.

- **PF**  
  = Printout follows. Followed by RST:DFTAC output message.

- **RL**  
  = Retry later. The request cannot be executed now due to unavailable system resources (such as, SM is not linked).

5. REFERENCES

Input Message(s):

- ABT:DFTAC
- RMV:DFTAC
- STP:DFTAC

Output Message(s):

- RST:DFTAC
Input Appendix(es):

APP: RANGES
RST:DIST

Software Release: 5E14 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Requests that a distribute point board (DIST) in a metallic service unit be restored to service.

If restored conditionally, the diagnostic will be run, and must be ATP before the unit will be restored to service. If restored unconditionally, no testing will be performed.

2. FORMAT

RST:DIST=a-b-c-d[,UCL];

3. EXPLANATION OF MESSAGE

UCL  = Restore unconditionally.

a   = Switching module number.

b   = MSU number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

c   = Service group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

d   = Distribute point board number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

PF  = Printout follows. Followed by RST:DIST output message.

5. REFERENCES

Output Message(s):

RST:DIST

Input Appendix(es):

APP:RANGES
RST:DLI

Software Release: 5E14 and later
Command Group: CM
Application: 5
Type: Input

1. PURPOSE

Requests that a specific dual link interface (DLI) or range of DLIs be restored to service.

2. FORMAT

RST:DLI=a[&b]|-c[,UCL];

3. EXPLANATION OF MESSAGE

UCL = Restore the specific DLI or range of DLIs unconditionally. Diagnostics will not be executed.
     Note: SMs that are not in an operational equipage state will be skipped on a request for a range of DLIs.

a = Switching module (SM) number or the lower limit for a range of SM numbers.

b = Upper limit of a range of SM numbers. All SMs in the range must be on the same side of the ONTC.

c = ONTC side.

4. SYSTEM RESPONSE

NG = No good. The request has been denied. The message syntax is valid, but the request could not be processed. Refer to the APP:CM-IM-REASON appendix in the Appendixes Section of the Input Messages manual for a list of possible reasons for denying the request.

PF = Printout follows.

RL = Retry later. The request cannot be executed now because the communication module (CM) deferred maintenance queue (DMQ) is full.

5. REFERENCES

Input Message(s):

DGN:DLI
OP:DMQ
RMV:DLI

Input Appendix(es):

APP:CM-IM-REASON
Output Message(s):

DGN : DLI
OP : DMQ-CM
OP : DMQ-SM
RMV : DLI
RST : DLI
RST:DNUSCC

Software Release: 5E14 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Requests that a digital networking unit - synchronous optical network (DNU-S) common controller (DNUSCC) be restored to service.

2. FORMAT

RST:DNUSCC=a-b-c[,STBY][,UCL];

3. EXPLANATION OF MESSAGE

STBY = Restore the unit to the standby state. If this state is not specified the unit will be restored to the active state.

UCL = Restore unconditionally without diagnostics.

a = Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

b = DNU-S number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

c = Common controller number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

NG = No good. The message form is valid, but the request conflicts with current status.

PF = Printout follows. A RST:DNUSCC output message follows.

RL = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

Input Message(s):

ABT:DNUSCC
STP:DNUSCC

Output Message(s):

RST:DNUSCC
Input Appendix(es):

APP : RANGES

Other Manual(s):
235-105-110   System Maintenance Requirements and Tools
235-105-220   Corrective Maintenance

MCC Display Page(s):

1510 (DNUS STATUS)
RST:DNUSCD

Software Release: 5E14 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Requests that a digital networking unit - synchronous optical network (DNU-S) common data (DNUSCD) be restored to service.

2. FORMAT

RST:DNUSCD=a-b-c-d[,STBY][,UCL];

3. EXPLANATION OF MESSAGE

STBY = Restore the unit to the standby state. If this state is not specified, the unit is restored to the active state.

UCL = Restore unconditionally without diagnostics.

a = Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

b = DNU-S number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

c = Data group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

d = Common data number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

NG = No good. The message form is valid, but the request conflicts with current status.

PF = Printout follows. A RST:DNUSCD output message follows.

RL = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

Input Message(s):

ABT:DNUSCD
STP:DNUSCD

Output Message(s):

RST:DNUSCD
Input Appendix(es):

APP: RANGES

Other Manual(s):
235-105-110  System Maintenance Requirements and Tools
235-105-220  Corrective Maintenance

MCC Display Page(s):

1510 (DNUS STATUS)
RST:DNUSEOC
Software Release: 5E14 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE
Requests that a remote terminal (RT) embedded operations channel (EOC) circuit be restored to service. This message is applicable for TR303 RTs (that is, AT&T Series 5 RTs running Feature Package 303G) terminating on a digital networking unit - synchronous optical network (DNU-S).

Requests to restore an EOC while both EOCs are in the in-service state results in the EOC being removed from and restored to service.

2. FORMAT
RST:DNUSEOC=a-b-c-d[,STBY];

3. EXPLANATION OF MESSAGE
STBY = Restore the EOC to the standby state rather than the active state (default is active state).

a = Switching module (SM) number.

b = DNU-S number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

c = RT number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

d = EOC number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE
PF = Printout follows. An RST:DNUSEOC output message will follow.

NG = No good. The request has been denied. The message is valid but the request conflicts with current status.

RL = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES
Input Message(s):
ABT:DNUSEOC
STP:DNUSEOC

Output Message(s):
RST:DNUSTMC

**Software Release:** 5E14 and later  
**Command Group:** SM  
**Application:** 5  
**Type:** Input

### 1. PURPOSE

Requests that a remote terminal (RT) timeslot management channel (TMC) circuit be restored to service. This message is applicable for TR303 RTs (that is, AT&T Series 5 RTs running Feature Package 303G) terminating on a digital networking unit - synchronous optical network (DNU-S).

Requests to restore a TMC while both TMCs are in the in-service state results in the TMC being removed from and restored to service.

### 2. FORMAT

```
RST:DNUSTMC=a-b-c-d[,STBY];
```

### 3. EXPLANATION OF MESSAGE

- **STBY** = Restore the TMC to the standby state rather than the active state (default is the active state).
- **a** = Switching module (SM) number.
- **b** = DNU-S number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
- **c** = RT number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
- **d** = TMC number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

### 4. SYSTEM RESPONSE

- **PF** = Printout follows. An RST:DNUSTMC output message will follow.
- **NG** = No good. The request has been denied. The message is valid but the request conflicts with current status.
- **RL** = Retry later. The request cannot be executed now due to unavailable system resources.

### 5. REFERENCES

**Input Message(s):**

- ABT:DNUSTMC
- STP:DNUSTMC

**Output Message(s):**

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235-600-700 December 2003  
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RST : DNUSTMC

Input Appendix(es):

APP : RANGES

Other Manual(s):
235-105-110  System Maintenance Requirements and Tools
235-105-220  Corrective Maintenance

MCC Display Page(s):

1660,xxxx (TR303 REMOTE TERMINAL)
1. PURPOSE
Requests that a digital signal - level 1 (DS1) be restored to service.

2. FORMAT
RST:DS1=a-b-c-d-e-f-g[,UCL];

3. EXPLANATION OF MESSAGE

<table>
<thead>
<tr>
<th>UCL</th>
<th>Restore unconditionally without first removing the DS1 circuit.</th>
</tr>
</thead>
<tbody>
<tr>
<td>a</td>
<td>Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.</td>
</tr>
<tr>
<td>b</td>
<td>Optical interface unit (OIU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.</td>
</tr>
<tr>
<td>c</td>
<td>Protection group (PG) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.</td>
</tr>
<tr>
<td>d</td>
<td>Optical carrier - level 3 (OC3) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.</td>
</tr>
<tr>
<td>e</td>
<td>Synchronous transport signal - level 1 (STS1) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.</td>
</tr>
<tr>
<td>f</td>
<td>Virtual tributary - level 1.5 (VT15) group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.</td>
</tr>
<tr>
<td>g</td>
<td>VT15 member number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.</td>
</tr>
</tbody>
</table>

4. SYSTEM RESPONSE

| NG       | No good. The message form is valid, but the request conflicts with current status. |
| PF       | Printout follows. Followed by the RST:DS1 output message. |
| RL       | Retry later. The request cannot be executed now due to unavailable system resources. |

5. REFERENCES
Input Message(s):
ABT:DS1
STP:DS1

Output Message(s):
  RST:DS1

Input Appendix(es):
  APP: RANGES

Other Manual(s):
  235-105-110  System Maintenance Requirements and Tools
  235-105-220  Corrective Maintenance

MCC Display Page(s):
  1492  OIU STS1 STATUS
RST:DS1SFAC

Software Release: 5E14 and later
Command Group: SM
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Requests that a digital networking unit - synchronous optical network (DNU-S) digital signal level 1 facility (DS1SFAC) be restored to service.

WARNING: An unconditional restoration of an DS1SFAC while the DS1SFAC is out of service may preempt maintenance activity on the DS1SFAC.

2. FORMAT

RST:DS1SFAC=a-b-c-d-e-f-g [,UCL];

3. EXPLANATION OF MESSAGE

UCL = Restore unconditionally.

a = Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

b = Digital Networking Unit - SONET (DNU-S) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

c = Data group (DG) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

d = SONET Termination Equipment (STE) facility number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

e = Synchronous Transport Signal (STS) facility number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

f = Virtual tributary group (VTG) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

g = Virtual tributary member (VTM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

NG = No good. The message form is valid, but the request conflicts with current status.
PF = Printout follows. A RST:DS1SFAC output message follows.
RL = Retry later. The request cannot be executed now due to unavailable system resources.
5. REFERENCES

Input Message(s):

ABT:DS1SFAC
STP:DS1SFAC

Output Message(s):

RST:DS1SFAC

Input Appendix(es):

APP:RANGES

Other Manual(s):
235-105-110 System Maintenance Requirements and Tools
235-105-220 Corrective Maintenance

MCC Display Page(s):

1511 (DNUS STS MAINTENANCE)
RST:DSC

Software Release: 5E14 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Requests that a digital service circuit (DSC) be restored.

If restored conditionally, the diagnostic will be run. All tests must pass before the unit will be restored to service. If restored unconditionally, no testing will be performed.

2. FORMAT

RST:DSC=a-b-c-d[:UCL];

3. EXPLANATION OF MESSAGE

UCL = Execute the restoration unconditionally.

a = Switching module number.

b = Digital service unit (DSU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

c = Service group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

d = DSU board position number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

PF = Printout follows. Followed by an output message.

5. REFERENCES

Output Message(s):

RST:TTFCOM
RST:UCONF
RST:UTD
RST:UTG

Input Appendix(es):

APP:RANGES
RST:DUI

Software Release: 5E14 and later
Command Group: AM
Application: 5,3B
Type: Input

1. PURPOSE

Requests that a direct user interface (DUI) device be restored to service. DUI is a subdevice of the DUI controller (DUIC). Restoring a DUI by using RST:DUIa! has the same effect as using RST:DUIa;UCL!

Note: The input/output processor (IOP) and the DUIC must be in service before the DUI can be restored.

2. FORMAT

RST:DUI=a;

3. EXPLANATION OF MESSAGE

a = Member number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

PF = Printout follows. Followed by RST:DUI output message.

5. REFERENCES

Input Message(s):
RMV:DUI
RMV:DUIC
RMV:IOP
RST:DUIC
RST:IOP

Output Message(s):
RMV:DUI
RMV:DUIC
RMV:IOP
RST:DUI
RST:DUIC
RST:IOP

Input Appendix(es):
APP:RANGES
RST:DUIC

Software Release: 5E14 and later
Command Group: AM
Application: 5,3B
Type: Input

1. PURPOSE

Requests that a direct user interface controller (DUIC) be restored to service.

If restored conditionally, a DUIC diagnostic will be run and must be all tests pass (ATP) before the unit will be restored to service. If restored unconditionally, no testing will be performed.

Note: The input/output processor (IOP) must be in service before the DUIC can be restored.

2. FORMAT

RST:DUIC=a[[:UCL][,CONT]]|[:RAW][:DATA[,TLP][,CONT]]

3. EXPLANATION OF MESSAGE

CONT = Restore only the DUIC. (The default is to restore the DUIC and all associated DUls).

RAW = Print the diagnostic results of every phase. (The default is to print the first five failures of each failing phase).

TLP = Execute the trouble locating procedure (TLP) at the conclusion of the diagnostic. This process generates a list of suspected faulty equipment.

Note: The TLP and UCL parameters should not be used together, as no testing is performed on an unconditional restore.

UCL = Restore unconditionally. (The default is conditional restoration).

a = Member number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

PF = Printout follows. Followed by RST:DUIC output message.

5. REFERENCES

Input Message(s):

DGN:DUIC
DGN:IOP
RMV:DUIC
RMV:IOP
RST:IOP
Output Message(s):

ANALY:TLPFILE
DGN:DUIC
DGN:IOP
RMV:DUIC
RMV:IOP
RST:DUIC
RST:IOP

Input Appendix(es):

APP:RANGES

Other Manual(s):
235-105-220 Corrective Maintenance
RST:EAN

Software Release: 5E14 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Requests that a single equipment access network (EAN) circuit be restored to service.

If restored conditionally, the diagnostic will be run. All tests must pass before the unit will be restored to service. If restored unconditionally, no testing will be performed.

2. FORMAT

RST:EAN=a-b[,UCL];

3. EXPLANATION OF MESSAGE

UCL = Restore unconditionally.

a = Switching module number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

b = Directly connected test unit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

PF = Printout follows. Followed by RST:EAN output message.

5. REFERENCES

Output Message(s):

RST:EAN

Input Appendix(es):

APP:RANGES
RST:EC1STE

Software Release: 5E14 and later
Command Group: SM
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Requests that a digital networking unit - Electrical Carrier Level 1 SONET Termination equipment facility (EC1STE) be restored to service.

WARNING: An unconditional restoration of an EC1STE while the EC1STE is out of service may preempt maintenance activity on the EC1STE.

2. FORMAT

RST:EC1STE=a-b-c-d[,ALL][,UCL];

3. EXPLANATION OF MESSAGE

ALL = Restore all subtending facilities.
UCL = Restore unconditionally.
a = Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
b = Digital Networking Unit - SONET (DNU-S) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
c = Data group (DG) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
d = SONET Termination Equipment (STE) facility number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

NG = No good. The message form is valid, but the request conflicts with current status.
PF = Printout follows. A RST:EC1STE output message follows.
RL = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

Input Message(s):

ABT:EC1STE
STP:EC1STE

Output Message(s):

RST:EC1STE

Input Appendix(es):

APP:RANGES

Other Manual(s):
235-105-110 System Maintenance Requirements and Tools
235-105-220 Corrective Maintenance

MCC Display Page(s):

1510 (DNUS STATUS)
RST:FAC
Software Release: 5E14 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Requests restoration of a remote switching module (RSM) facility (FAC) or a trunk FAC to service.

An RSM FAC can be a host-remote facility between a host switching module (HSM) and an RSM, or a remote facility between two RSMs. A trunk FAC is an inter-office trunk.

If the FAC is restored conditionally, the following occurs: If the facility is out of service, the connectivity exercise must succeed before the facility will be returned to service. If facility is in service, it will be removed conditionally, and the connectivity exercise must succeed before the facility will be returned to service.

2. FORMAT

RST:FAC=a-b-c-d[,UCL];

3. EXPLANATION OF MESSAGE

UCL = Restore the facility unconditionally (without connectivity exercise testing). The facility will not be restored if there is a carrier group alarm on the RDFI or CDFI.

a = Switching module (SM) number.

b = Digital line and trunk unit (DLTU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

c = RSM digital facilities interface (RDFI), inter-RSM communication link digital facilities interface (CDFI), or inter-office trunk digital facilities interface (DFI) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

d = FAC number. The FAC number is the T1 facility number on a RDFI, CDFI, or DFI. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

NG = No good. The message syntax is valid, but the request conflicts with current system or equipment status. May also include:
- NOT STARTED UNIT IN GROWTH STATE = The unit is in a transient state, it is not available at this time.
- SM DOES NOT EXIST = The message syntax is valid, but the SM requested does not exist.
- SM UNEQUIPPED = The message syntax is valid, but the SM is unequipped.
- UNIT DOES NOT EXIST = The message syntax is valid, but the unit does not exist.

PF = Printout follows. An RST:FAC output message follows in response to the request.

RL = Retry later. The request cannot be executed now due to unavailable system resources.
5. REFERENCES

Input Message(s):

RMV : FAC

Output Message(s):

RST : FAC

Input Appendix(es):

APP : RANGES

Other Manual(s):
235-105-220  Corrective Maintenance
RST:FPC

Software Release: 5E14 and later
Command Group: CM
Application: 5
Type: Input

1. PURPOSE
Requests that the specified foundation peripheral controller (FPC) be restored to service.
Note: For conditional restores, if the unit is not OOS, the system will first remove the unit conditionally.

2. FORMAT

RST:FPC=a[,UCL][,STBY];

3. EXPLANATION OF MESSAGE

STBY = Restore the unit to the standby maintenance state.
UCL = Restores the FPC unconditionally. No diagnostics are performed.
Note: For offices having CM3 vintage communications modules, the restore will always be run unconditionally, with or without the UCL parameter.

a = FPC number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

NG = No good. The message is invalid.
PF = Printout follows. Followed by RST:FPC message.
RL = Retry later. The request cannot be executed now.

5. REFERENCES

Output Message(s):

DGN:FPC
RST:FPC

Input Appendix(es):

APP:RANGES
RST:GDSF

Software Release: 5E14 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Conditionally or unconditionally restores a global digital services function (GDSF) circuit to service. If restored conditionally, the diagnostic will be run. All tests must pass before the unit will be restored to service. If restored unconditionally, no testing is performed.

2. FORMAT

RST:GDSF=a-b [,UCL];

3. EXPLANATION OF MESSAGE

UCL = Unconditionally restores without diagnosis.

a = Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

b = GDSF number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

PF = Printout follows. Followed by RST:GDSF output message.

5. REFERENCES

Input Message(s):

RMV:GDSF

Output Message(s):

RST:GDSF

Input Appendix(es):

APP:RANGES
**RST:GDSUCOM**

**Software Release:** 5E14 and later  
**Command Group:** SM  
**Application:** 5  
**Type:** Input

1. **PURPOSE**

Requests that a global digital service unit common (GDSUCOM) board be restored to service.

If restored conditionally, the diagnostic will be run. All tests must pass before the unit will be restored to service. If restored unconditionally, no testing will be performed.

2. **FORMAT**

\[ \text{RST:GDSUCOM}=a-b-c[,UCL]; \]

3. **EXPLANATION OF MESSAGE**

- **UCL** = Restore unconditionally.
- **a** = Switching module number.
- **b** = Global digital service unit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
- **c** = Service group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. **SYSTEM RESPONSE**

\[ \text{PF} \]

= Printout follows. Followed by RST:GDSUCOM output message.

5. **REFERENCES**

**Output Message(s):**

\[ \text{RST:GDSUCOM} \]

**Input Appendix(es):**

\[ \text{APP:RANGES} \]
RST:GDXACC

Software Release: 5E14 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Requests that a gated diode crosspoint access (GDXACC) service group in a line unit be restored to service.

If restored conditionally, the diagnostic will be run. All tests must pass before the unit will be restored to service. If restored unconditionally, no testing will be performed.

2. FORMAT

RST:GDXACC=a-b-c[,UCL];

3. EXPLANATION OF MESSAGE

UCL = Restore unconditionally.

a = Switching module number.

b = Line unit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

c = Service group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

PF = Printout follows. Followed by RST:GDXACC output message.

5. REFERENCES

Output Message(s):

RST:GDXACC

Input Appendix(es):

APP:RANGES
RST:GDXC

Software Release: 5E14 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Requests that a gated diode crosspoint compensator (GDXC) board in a metallic service unit (MSU) be restored to service.

If restored conditionally, the diagnostic will be run. All tests must pass before the unit will be restored to service. If restored unconditionally, no testing will be performed.

2. FORMAT

RST:GDXC=a-b-c-d[,UCL];

3. EXPLANATION OF MESSAGE

UCL = Restore unconditionally.

a = Switching module number.

b = Metallic service unit (MSU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

c = Service group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

d = MSU board position number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

PF = Printout follows. Followed by RST:GDXC output message.

5. REFERENCES

Output Message(s):

   RST:GDXC

Input Appendix(es):

   APP:RANGES
RST:GDXCON

Software Release: 5E14 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE
Requests that a gated diode crosspoint control (GDXCON) board in a line unit be restored to service as the active controller or to standby.

If restored conditionally, the diagnostic will be run. All tests must pass before the unit will be restored to service. If restored unconditionally, no testing will be performed.

2. FORMAT
RST:GDXCON=a-b-c[,UCL][,STBY];

3. EXPLANATION OF MESSAGE

STBY = Restore to standby state.
UCL = Restore unconditionally.
a = Switching module number.
b = Line unit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
c = Service group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE
PF = Printout follows. Followed by RST:GDXCON output message.

5. REFERENCES
Output Message(s):
  RST:GDXCON

Input Appendix(es):
  APP:RANGES
RST:GQPHPIPE

Software Release: 5E16(2) and later
Command Group: MTCE
Application: 5
Type: Input

1. PURPOSE

Requests that a general quad-link packet switch protocol handler (GQPH) QPIPE be restored to service.

2. FORMAT

RST:GQPHPIPE=a-b-c-d-e;

3. EXPLANATION OF MESSAGE

a = Global switching module (GSM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

b = Packet switch unit (PSU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

c = PSU shelf number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

d = GQPH channel group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

e = Quad-link packet switch (QLPS) network number, which is 0 or 1, or a range 0&1 to restore GQPH QPIPEs on both networks. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

NG = No good. May also include:
   - NOT A GSM = This response indicates that the input GSM (part of the GQPH QPIPE specification) is not a provisioned GSM.
   - SM UNEQUIPPED = This response indicates that the input GSM (part of the GQPH QPIPE specification) is not even an equipped SM.

PF = Printout follows. The request has been accepted. Followed by the RST GQPHPIPE output message specifying the results of the request.

RL = Retry later. May also include:
   - GSM NOT AVAILABLE = This response indicates that the input GSM (part of the GQPH QPIPE specification) is not available, because it is isolated or undergoing an initialization.

5. REFERENCES

Output Message(s):
RST:GQPHPIPE

Input Appendix(es):
APP : RANGES

RC/V View(s):
17.24       GQPH QPIPE ASSIGNMENT
RST:GRID

Software Release: 5E14 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Requests that a gated diode crosspoint grid (GRID) in a line unit concentrator be restored to service.

If restored conditionally, the diagnostic will be run. All tests must pass before the unit will be restored to service. If restored unconditionally, no testing will be performed.

Lines out of service for reasons other than family of equipment (FE) must be restored using the RST:LINE input message.

2. FORMAT

RST:GRID=a-b-c[,UCL];

3. EXPLANATION OF MESSAGE

UCL = Restore unconditionally.

a = Switching module number.

b = Line unit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

c = Grid number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

PF = Printout follows. Followed by RST:GRID output message.

5. REFERENCES

Input Message(s):
RST:LINE

Output Message(s):
RST:GRID

Input Appendix(es):
APP:RANGES
**RST:GRIDBD**

**Software Release:** 5E14 and later  
**Command Group:** SM  
**Application:** 5  
**Type:** Input

1. **PURPOSE**

Requests that a line unit model 2 (LU2) or line unit model 3 (LU3) grid board be restored to the active state.

Lines that are out of service for reasons other than family of equipment (removed individually) must be restored using the RST:LINE input message.

Note: GRID diagnostics may or may not run depending on the state of the GRID. If the GRID is degraded, diagnostics will not run. If the GRID is ACT or OOS diagnostics will run on the GRID. The fabric will run on the GRID no matter what state the GRID is in.

2. **FORMAT**

```
RST:GRIDBD=a-b-c-d[,UCL];
```

3. **EXPLANATION OF MESSAGE**

<table>
<thead>
<tr>
<th>UCL</th>
<th>= Restore the unit unconditionally (without performing diagnostics). The default is to restore conditionally. If restored conditionally, the diagnostics will be run and all tests must pass before the unit will be restored to service.</th>
</tr>
</thead>
<tbody>
<tr>
<td>a</td>
<td>= Switching module number.</td>
</tr>
<tr>
<td>b</td>
<td>= Line unit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.</td>
</tr>
<tr>
<td>c</td>
<td>= Grid number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.</td>
</tr>
<tr>
<td>d</td>
<td>= Board number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.</td>
</tr>
</tbody>
</table>

4. **SYSTEM RESPONSE**

| NG  | = No good. The request has been denied. The message form is valid, but the request conflicts with current status. |
| PF  | = Printout follows. An RST:GRIDBD output message will follow.                                                                                                               |
| RL  | = Retry later. The request cannot be executed now due to unavailable system resources.                                                                                    |

5. **REFERENCES**

Input Message(s):
RST:HDFI

Software Release: 5E14 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Requests that a host switching module (HSM) digital facilities interface (HDFI) circuit be restored to service.

2. FORMAT

RST:HDFI=a-b-c[,UCL];

3. EXPLANATION OF MESSAGE

UCL = Restore the circuit unconditionally. If circuit is out of service, it will be returned to service without diagnostic testing. If circuit is in service, it will be removed unconditionally, which will disconnect stable inter-module calls. It will then be returned to service without diagnostic testing.

a = Switching module number.

b = Digital line and trunk unit (DLTU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

c = HDFI number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

NG = No good. Request denied because of a conflict with current status.

PF = Printout follows. Followed by an RST:HDFI output message.

5. REFERENCES

Input Message(s):

RMV:HDFI

Output Message(s):

RST:HDFI

Input Appendix(es):

APP:RANGES
RST:HSD

Software Release: 5E14 and later  
Command Group: AM  
Application: 5,3B  
Type: Input

1. PURPOSE

Requests that the specified high-speed synchronous data link (HSD) subdevice be restored to service.

Note: The input/output processor (IOP) and the high-speed synchronous data link controller (HSDC) must be in service before the HSD subdevice can be restored.

2. FORMAT

RST:HSD=a;

3. EXPLANATION OF MESSAGE

a = Member number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

PF = Printout follows. Followed by RST:HSD output message.

5. REFERENCES

Input Message(s):

  DGN:HSDC  
  DGN:IOP  
  RMV:HSD  
  RMV:HSDC  
  RMV:IOP  
  RST:HSDC  
  RST:IOP

Output Message(s):

  DGN:HSDC  
  DGN:IOP  
  RMV:HSD  
  RMV:HSDC  
  RMV:IOP  
  RST:HSD  
  RST:HSDC  
  RST:IOP
Input Appendix(es):

APP : RANGES

Other Manual(s):
235-105-220  Corrective Maintenance
RST:HSDC

Software Release: 5E14 and later
Command Group: AM
Application: 5,3B
Type: Input

1. PURPOSE

Requests that a high-speed synchronous data link (HSD) controller (HSDC) be restored to service.

If restored conditionally, an HSDC diagnostic will be run and must be all tests pass (ATP) before the unit will be restored to service. If restored unconditionally, no testing will be performed.

Note: The input/output processor (IOP) must be in service before the HSDC can be restored.

2. FORMAT


3. EXPLANATION OF MESSAGE

CONT = Restore only the HSDC. (The default is to restore the HSDC and all associated HSD subdevices).

RAW = Print the diagnostic results of every phase. (The default is to print the first five failures of each failing phase).

TLP = Execute the trouble locating procedure (TLP) at the conclusion of the diagnostic. This process generates a list of suspected faulty equipment.

Note: The TLP and UCL parameters should not be used together, as no testing is performed on an unconditional restore.

UCL = Restore unconditionally. (The default is conditional restoration).

a = Member number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

PF = Printout follows. Followed by RST:HSDC output message.

5. REFERENCES

Input Message(s):

DGN:HSDC
DGN:IOP
RMV:HSDC
RMV:IOP
RST:IOP
Output Message(s):

ANALY: TLPFILE
DGN: HSDC
DGN: IOP
RMV: HSDC
RMV: IOP
RST: HSDC
RST: IOP

Other Manual(s):
235-105-220  Corrective Maintenance
RST:IDCU
Software Release: 5E14 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE
Requests that an integrated digital carrier unit (IDCU) service group circuit be restored to service either conditionally or unconditionally. If restored conditionally, diagnostics will run. All tests must pass before the circuit will be restored to service. If restored unconditionally, no tests will be performed.

2. FORMAT
RST:IDCU=a-b-c[,UCL][,STBY];

3. EXPLANATION OF MESSAGE
   STBY = Restore the IDCU to the standby state rather than the active state (default is the active state).
   UCL = Unconditionally restore without running diagnostics.
   a = Switching module (SM) number.
   b = IDCU number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
   c = IDCU service group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE
   PF = Printout follows. An RST:IDCU output message will follow.
   NG = No good. The request has been denied. The message is valid but the request conflicts with current status.
   RL = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES
Input Message(s):
   ABT:IDCU
   STP:IDCU
Output Message(s):
   RST:IDCU
Input Appendix(es):
RST:IDCUELI

Software Release: 5E14 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE
Requests that an integrated digital circuit unit (IDCU) electrical line interface (ELI) circuit be restored to service.

2. FORMAT
RST:IDCUELI=a-b-c;

3. EXPLANATION OF MESSAGE

a = Switching module (SM) number.
b = IDCU number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
c = ELI number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

PF = Printout follows. An RST:IDCUELI output message will follow.
NG = No good. The request has been denied. The message is valid but the request conflicts with current status.
RL = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES
Input Message(s):
   ABT:IDCUELI
   STP:IDCUELI

Output Message(s):
   RST:IDCUELI

Input Appendix(es):
   APP:RANGES

Other Manual(s):
235-105-110 System Maintenance Requirements and Tools
Corrective Maintenance

MCC Display Page(s):

186x (IDCU CIRCUIT)
RST:IDCUEOC

Software Release: 5E14 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Requests that a remote terminal (RT) embedded operations channel (EOC) circuit be restored to service. This message is applicable for TR303 RTs (that is, AT&T Series 5 RTs running Feature Package 303G) terminating on an integrated digital carrier unit (IDCU).

Requests to restore an EOC while both EOCs are in the in-service state results in the EOC being removed from and restored to service.

2. FORMAT

RST:IDCUEOC=a-b-c-d[,STBY];

3. EXPLANATION OF MESSAGE

STBY = Restore the EOC to the standby state rather than the active state (default is active state).

a = Switching module (SM) number.

b = IDCU number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

c = RT number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

d = EOC number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

PF = Printout follows. An RST:IDCUEOC output message will follow.

NG = No good. The request has been denied. The message is valid but the request conflicts with current status.

RL = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

Input Message(s):

ABT:IDCUEOC
STP:IDCUEOC

Output Message(s):
RST: IDCUEOC

Input Appendix(es):

APP: RANGES

Other Manual(s):
235-105-110  System Maintenance Requirements and Tools
235-105-220  Corrective Maintenance

MCC Display Page(s):

1880,x.yy (IDCU REMOTE TERMINAL)
**RST:IDCUPIDB**

**Software Release:** 5E14 and later  
**Command Group:** SM  
**Application:** 5  
**Type:** Input

1. **PURPOSE**

Requests that an integrated digital carrier unit (IDCU) peripheral interface data bus (PIDB) or direct PIDB (DPIDB) pair (both IDCU service groups) be restored to service.

This input message should only be used to support the growth/degrowth of an IDCU PIDB or DPIDB circuit.

2. **FORMAT**

```
RST:IDCUPIDB=a-b-c;
```

3. **EXPLANATION OF MESSAGE**

   a = Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

   b = IDCU number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

   c = PIDB or DPIDB number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. **SYSTEM RESPONSE**

   **PF** = Printout follows. An RST:IDCUPIDB output message follows.

   **NG** = No good. The request has been denied. The message is valid but the request conflicts with current status.

   **RL** = Retry later. The request cannot be executed now due to unavailable system resources.

5. **REFERENCES**

   **Input Message(s):**
   - ABT:IDCUPIDB
   - STP:IDCUPIDB

   **Output Message(s):**
   - RST:IDCUPIDB

   **Input Appendix(es):**
   - APP:RANGES
Other Manual(s):
235-105-110  System Maintenance Requirements and Tools
235-105-220  Corrective Maintenance
235-105-331  Hardware Change Procedures
RST:IDCUTMC
Software Release: 5E14 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Requests that a remote terminal (RT) timeslot management channel (TMC) circuit be restored to service. This message is applicable for TR303 RTs (that is, AT&T Series 5 RTs running Feature Package 303G) terminating on an integrated digital carrier unit (IDCU).

Requests to restore a TMC while both TMCs are in the in-service state results in the TMC being removed from and restored to service.

2. FORMAT

RST:IDCUTMC=a-b-c-d[,STBY];

3. EXPLANATION OF MESSAGE

STBY = Restore the TMC to the standby state rather than the active state (default is the active state).

a = Switching module (SM) number.

b = IDCU number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

c = RT number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

d = TMC number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

PF = Printout follows. An RST:IDCUTMC output message will follow.

NG = No good. The request has been denied. The message is valid but the request conflicts with current status.

RL = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

Input Message(s):

ABT:IDCUTMC
STP:IDCUTMC

Output Message(s):
RST: IDCUTMC

Input Appendix(es):

APP: RANGES

Other Manual(s):
235-105-110  System Maintenance Requirements and Tools
235-105-220  Corrective Maintenance

MCC Display Page(s):

1880,x.yy (IDCU REMOTE TERMINAL)
RST:IFAC

Software Release: 5E14 and later
Command Group: SM
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Requests that an integrated digital carrier unit (IDCU) digital signal level one (DS1) facility (IFAC) circuit be restored to service.

WARNING: The use of this input message with the SCREEN option could result in the degradation of an IDCU facility (IFAC), not necessarily the one indicated in the input message. It could affect a totally unrelated IFAC circuit. This option is used strictly by the page pokes on the MCC display terminal.

2. FORMAT

RST:IFAC=a-b-c[,SCREEN=d][,UCL];

3. EXPLANATION OF MESSAGE

SCREEN = Used by MCC display poke to determine the IFACs being displayed on the MCC page.
UCL = Unconditionally execute the restoration.
a = Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
b = IDCU number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
c = IFAC number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
Note: The 5th IFAC on a SLC5 RT must be designated as a protection line (using RC/V) before it is restored. If it is not, calls to the RT may fail.
d = Remote terminal (RT) number.

4. SYSTEM RESPONSE

PF = Printout follows. An RST:IFAC output message will follow.
NG = No good. The request has been denied. The message is valid but the request conflicts with current status.
RL = Retry later. The request cannot be executed now due to unavailable system resources.
5. REFERENCES

Input Message(s):

ABT: IFAC
STP: IFAC

Output Message(s):

RST: IFAC

Input Appendix(es):

APP: RANGES

Other Manual(s):

235-105-110  System Maintenance Requirements and Tools
235-105-220  Corrective Maintenance

MCC Display Page(s):

187x (IDCU FACILITY)
188xyy (IDCU REMOTE TERMINAL)
RST:IOP

Software Release: 5E14 and later
Command Group: AM
Application: 5,3B
Type: Input

1. PURPOSE

Requests that an input/output processor (IOP) be restored to service.

If restored conditionally, an IOP diagnostic will be run and must be all tests pass (ATP) before the unit will be restored to service. If restored unconditionally, no testing will be performed.

2. FORMAT

RST:IOP=a[:UCL][,CONT][,:RAW][:DATA[,TLP][,CONT][,CU b]];

3. EXPLANATION OF MESSAGE

CONT = Restore only the IOP. (The default is to restore the IOP and all associated peripheral controllers (for example, the teletypewriter controller, magnetic tape controller, etc.).)

RAW = Print the diagnostic results of every phase. (The default is to print the first five failures of each failing phase).

TLP = Execute the trouble locating procedure (TLP) at the conclusion of the diagnostic. This process generates a list of suspected faulty equipment.

Note: The TLP and UCL parameters should not be used together, as no testing is performed on an unconditional restore.

UCL = Restore unconditionally. (Default is conditional restoration).

a = Member number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

b = Specified helper unit, required for some diagnostic phases. An entry in the data field other than a keyword or keyword parameter is the specified helper unit. When a helper unit is not required, the specified helper unit is ignored. When a helper unit is required but the specified helper unit is inappropriate or unavailable, the helper unit dependent tests are skipped. The off-line CU is required as a helper unit when demand phase 15 is executed.

Note: The helper CU must be out-of-service (OOS) and must be diagnosed as all tests pass (ATP) before it is used as a helper unit.

4. SYSTEM RESPONSE

PF = Printout follows. Followed by RST:IOP output message.

5. REFERENCES
Input Message(s):
  DGN: IOP
  RMV: IOP

Output Message(s):
  ANALY: TLPFILE
  DGN: IOP
  RMV: IOP
  RST: IOP

Input Appendix(es):
  APP: RANGES

Other Manual(s):
235-105-220  Corrective Maintenance

MCC Display Page(s):
  (COMMON PROCESSOR)
RST:ISLUCC
Software Release: 5E14 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE
Requests that an integrated services line unit common controller (ISLUCC) be restored to service.

2. FORMAT
RST:ISLUCC=a-b-c[,STBY][,UCL];

3. EXPLANATION OF MESSAGE
STBY = Restore the unit to the standby state. If this state is not specified the unit will be restored to the active state.

UCL = Restore unconditionally without diagnostics.

a = Switching module (SM) number.

b = Integrated services line unit (ISLU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

c = Common controller number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE
NG = No good. The message form is valid, but the request conflicts with current status.

PF = Printout follows. An RST ISLUCC output message will follow.

RL = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES
Output Message(s):
RST:ISLUCC

Input Appendix(es):
APP:RANGES

MCC Display Page(s):
170x (ISLU NETWORK)
170xy (ISLU LINE GROUP)
**RST:ISLUCD**

**Software Release:** 5E14 and later  
**Command Group:** SM  
**Application:** 5  
**Type:** Input

### 1. PURPOSE

Requests that an integrated services line unit common data (ISLUCD) be restored to service.

### 2. FORMAT

```
RST:ISLUCD=a-b-c[,CAMPON=d][,STBY][,UCL];
```

### 3. EXPLANATION OF MESSAGE

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>STBY</td>
<td>= Restore the unit to the standby state. If this state is not specified the unit will be restored to the active state.</td>
</tr>
<tr>
<td>UCL</td>
<td>= Restore unconditionally without diagnostics.</td>
</tr>
<tr>
<td>a</td>
<td>= Switching module (SM) number.</td>
</tr>
<tr>
<td>b</td>
<td>= Integrated services line unit (ISLU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.</td>
</tr>
<tr>
<td>c</td>
<td>= Common controller number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.</td>
</tr>
<tr>
<td>d</td>
<td>= Camp-on time in minutes. If CAMPON is not specified, camp-on time defaults to 6 minutes. Maximum time allowed is 20 minutes. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.</td>
</tr>
</tbody>
</table>

### 4. SYSTEM RESPONSE

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>NG</td>
<td>= No good. The message form is valid, but the request conflicts with current status.</td>
</tr>
<tr>
<td>PF</td>
<td>= Printout follows. An RST ISLUCD output message will follow.</td>
</tr>
<tr>
<td>RL</td>
<td>= Retry later. The request cannot be executed now due to unavailable system resources.</td>
</tr>
</tbody>
</table>

### 5. REFERENCES

- **Output Message(s):**  
  RST:ISLUCD

- **Input Appendix(es):**  
  APP:RANGES
MCC Display Page(s):

170x (ISLU NETWORK)
170xy (ISLU LINE GROUP)
RST:ISLUHLSC

Software Release: 5E14 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Requests that an integrated services line unit high level service circuit (ISLUHLSC) be restored to service.

If restored conditionally, the diagnostics will be run. All tests must pass before the unit will be restored to service. If restored unconditionally no tests will be performed.

2. FORMAT

RST:ISLUHLSC=a-b-c-d[,UCL];

3. EXPLANATION OF MESSAGE

UCL   = Restore unconditionally.

a     = Switching module (SM) number.

b     = ISLU number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

c     = ISLU service group. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

d     = High level service circuit. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

NG   = No good. The request has been denied. The message is valid but the request conflicts with the current status.

PF   = Printout follows. The RST:ISLUHLSC output message will follow.

RL   = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

Output Message(s):

RST:ISLUHLSC

Input Appendix(es):

APP: RANGES
MCC Display Page(s):

170x (ISLU NETWORK)
171x (ISLU-Z)
RST:ISLULBD

Software Release: 5E14 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Requests that an integrated services line unit line board (ISLULBD) be restored to service.

2. FORMAT

RST:ISLULBD=a-b-c-d[,CAMPON=e][,UCL];

3. EXPLANATION OF MESSAGE

UCL = Restore unconditionally without diagnostics.

a = Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

b = Integrated services line unit (ISLU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

c = Line group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

d = Line board number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

e = Camp-on time is minutes (1-20). If CAMPON is not specified, camp-on time defaults to 6 minutes. Maximum time allowed is 20 minutes.

4. SYSTEM RESPONSE

NG = No good. The message form is valid, but the request conflicts with current status.

PF = Printout follows. A RST ISLULBD output message will follow.

RL = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

Output Message(s):

RST:ISLULBD

Input Appendix(es):

APP: RANGES
RST:ISLULC

Software Release: 5E14 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Requests that an integrated services line unit line card (ISLULC) be restored to service.

2. FORMAT

RST:ISLULC=a-b-c-d[,CAMPON=e][,UCL];

3. EXPLANATION OF MESSAGE

UCL = Restore unconditionally without diagnostics.

a = Switching module (SM) number.

b = Integrated services line unit (ISLU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

c = Line group controller number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

d = Line card number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

e = Camp-on time is minutes (1-20). If CAMPON is not specified, camp-on time defaults to 6 minutes. Maximum time allowed is 20 minutes.

4. SYSTEM RESPONSE

NG = No good. The message form is valid, but the request conflicts with current status.

PF = Printout follows. An RST ISLULC output message will follow.

RL = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

Output Message(s):

RST:ISLULC

Input Appendix(es):

APP:RANGES
MCC Display Page(s):

170x (ISLU NETWORK)
170xy (ISLU LINE GROUP)
RST:ISLULCKT

Software Release: 5E14 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE
Requests that an integrated services line unit line circuit (ISLULCKT) be restored to service.

2. FORMAT
RST:ISLULCKT=a-b-c-d-e[,CAMPON=f] [,UCL];

3. EXPLANATION OF MESSAGE

UCL = Restore unconditionally without diagnostics.

a = Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

b = Integrated services line unit (ISLU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

c = Line group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

d = Line board number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

e = Line circuit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

f = Camp-on time is minutes (1-20). If CAMPON is not specified, camp-on time defaults to 6 minutes. Maximum time allowed is 20 minutes.

4. SYSTEM RESPONSE

NG = No good. The message form is valid, but the request conflicts with current status.

PF = Printout follows. An RST ISLULCKT output message will follow.

RL = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES
Output Message(s):

RST:ISLULCKT

Input Appendix(es):
1. PURPOSE

Requests that an integrated services line unit line group (ISLULG) be restored to service.

2. FORMAT

RST:ISLULG=a-b-c[,CAMPON=d][,UCL];

3. EXPLANATION OF MESSAGE

UCL   = Restore unconditionally without diagnostics.

a     = Switching module (SM) number.

b     = Integrated services line unit (ISLU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

c     = Line group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

d     = Camp-on time in minutes (1-20). If CAMPON is not specified, camp-on time defaults to 6 minutes. Maximum time allowed is 20 minutes.

4. SYSTEM RESPONSE

NG     = No good. The message form is valid, but the request conflicts with current status.

PF     = Printout follows. A RST:ISLULG output message will follow.

RL     = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

Output Message(s):

RST:ISLULG

Input Appendix(es):

APP:RANGES

MCC Display Page(s):

170x (ISLU NETWORK)
170xy (ISLU LINE GROUP)
**RST:ISLULGC**

Software Release: 5E14 and later  
Command Group: SM  
Application: 5  
Type: Input

1. **PURPOSE**

Requests that an integrated services line unit line group controller (ISLULGC) be restored to service.

2. **FORMAT**

```
RST:ISLULGC=a-b-c[,CAMPON=d][,UCL];
```

3. **EXPLANATION OF MESSAGE**

- **UCL** = Restore unconditionally without diagnostics.
- **a** = Switching module (SM) number.
- **b** = Integrated services line unit (ISLU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
- **c** = Line group controller number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
- **d** = Camp-on time in minutes (1-20). If CAMPON is not specified, camp-on time defaults to 6 minutes. Maximum time allowed is 20 minutes.

4. **SYSTEM RESPONSE**

- **NG** = No good. The message form is valid, but the request conflicts with current status.
- **PF** = Printout follows. An RST:ISLULGC output message will follow.
- **RL** = Retry later. The request cannot be executed now due to unavailable system resources.

5. **REFERENCES**

Output Message(s):

```
RST:ISLULGC
```

Input Appendix(es):

```
APP:RANGES
```

MCC Display Page(s):

```
170x (ISLU NETWORK)
```
RST:ISLUMAN

Software Release: 5E14 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Requests that an integrated services line unit metallic access network (ISLUMAN) be restored to service.

If restored conditionally, the diagnostics will be run. All tests must pass before the unit will be restored to service. If restored unconditionally no tests will be performed.

2. FORMAT

RST:ISLUMAN=a-b-c-d[,UCL];

3. EXPLANATION OF MESSAGE

UCL    = Restore unconditionally.

a      = Switching module (SM) number.

b      = ISLU number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

c      = ISLU service group. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.


4. SYSTEM RESPONSE

NG      = No good. The request has been denied. The message is valid but the request conflicts with the current status.

PF      = Printout follows. The RST:ISLUMAN output message will follow.

RL      = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

Output Message(s):

RST:ISLUMAN

Input Appendix(es):

APP:RANGES
MCC Display Page(s):

171x (ISLU-Z)
170x (ISLU NETWORK)
RST:ISLUPIDB

Software Release: 5E14 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Requests that an integrated services line unit peripheral interface data bus (ISLUPIDB) pair be restored to service.

Note: Restoring an unconnected PIDB cable could cause PIDB PARITY errors by the ISLU CD. The user should diagnose the ISLU CD before restoring the ISLUPIDB.

2. FORMAT

RST:ISLUPIDB=a-b-c;

3. EXPLANATION OF MESSAGE

a = Switching module number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

b = Integrated services line unit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

c = Peripheral interface data bus (PIDB) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

NG = No good. The request has been denied. The message form is valid, but the request conflicts with current status.

PF = Printout follows. The request was accepted. Output message RST:ISLUPIDB will follow.

RL = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

Input Message(s):

RMV:ISLUPIDB

Output Message(s):

RMV:ISLUPIDB
RST:ISLUPIDB

Input Appendix(es):
APP : RANGES

Other Manual(s):
235-105-220  Corrective Maintenance
RST:ISLURG

Software Release: 5E14 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Requests that an integrated services line unit ringing generator (ISLURG) be restored to service.

If restored conditionally, the diagnostics will be run. All tests must pass before the unit will be restored to service. If restored unconditionally no tests will be performed.

2. FORMAT

RST:ISLURG=a-b-c[,UCL];

3. EXPLANATION OF MESSAGE

   UCL    = Restore unconditionally.
   a      = Switching module (SM) number.
   b      = ISLU number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
   c      = ISLU service group of RG. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

   NG  = No good. The request has been denied. The message is valid but the request conflicts with the current status.
   PF  = Printout follows. The RST:ISLURG output message will follow.
   RL  = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

Output Message(s):

   RST:ISLURG

Input Appendix(es):

   APP:RANGES

MCC Display Page(s):

   170x (ISLU NETWORK)
RST:ISMNAIL

Software Release: 5E14 and later
Command Group: TRKLN
Application: 5
Type: Input

1. PURPOSE

Restores an inter-SM (switching module) nailup (ISMNAIL), which is used to support packet transport between two SMs.

2. FORMAT

RST:ISMNAIL,DLT=a-b,MATEDLT=c-d[,FRC];

3. EXPLANATION OF MESSAGE

FRC  = Restoration will be attempted regardless of current status of ISMNAIL.
a  = SM number (may be the SM associated with either end of the ISMNAIL).
b  = Data link terminal (DLT) number (1-160) associated with the SM.
c  = Mate SM number (the other SM associated with ISMNAIL).
d  = DLT number (1-160) associated with the mate SM.

4. SYSTEM RESPONSE

NG  = No good. May also include:
   - SM ## NOT IN THE ISM NETWORK = The request has been denied. Either the source or the mate SM or both have no ISMNAILs associated with it.
   - SAME SM AND MATESM SPECIFIED = The source and mate SM numbers are the same. This is an invalid condition.

PF  = Printout follows. The request has been accepted. An RST:ISMNAIL output message follows.

5. REFERENCES

Output Message(s):

RST:ISMNAIL
RST:ISTF
Software Release: 5E14 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Requests that an integrated services test function (ISTF) unit be restored to service.

If restored conditionally, the diagnostic will be run. All tests must pass before the unit will be restored to service. If restored unconditionally, no testing will be performed.

2. FORMAT

RST:ISTF=a-b[,UCL];

3. EXPLANATION OF MESSAGE

UCL = Restore unconditionally.

a = Switching module (SM) number.

b = ISTF unit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

NG = No good. The request has been denied because it conflicts with current equipment status. May also include:
   - SM DOES NOT EXIST = The requested SM does not exist in the system.
   - SM UNEQUIPPED = The SM specified in the request is unequipped.
   - UNIT DOES NOT EXIST = The requested unit does not exist in the system.

PF = Printout follows. The request has been accepted. Followed by an RST:ISTF output message.

RL = Retry later. The request cannot be executed now due to unavailable system resources. The message may be entered again later.

5. REFERENCES

Output Message(s):

RST:ISTF

Input Appendix(es):

APP:RANGES
RST:IWGFAC
Software Release: 5E15 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE
Requests that an inter-working gateway facility (IWGFAC) be restored to service.

2. FORMAT
RST:IWGFAC=a-b-c[,UCL];

3. EXPLANATION OF MESSAGE

   ALL    = Restore all the inter-working gateway facilities.

   UCL    = Unconditionally execute the restore.

   a      = Switch module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

   b      = Inter-working gateway (IWG) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

   c      = Inter-working gateway facility (IWGFAC) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

   NG     = No good. The request has been denied. The message is valid but the request conflicts with current status.

   PF     = Printout follows. Followed by the RST:IWGFAC output message.

   RL     = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

Input Message(s):
   ABT:IWGFAC
   STP:IWGFAC
   RMV:IWGFAC

Output Message(s):
   RST:IWGFAC

Input Appendix(es):
APP: RANGES

MCC Display Page(s):

1340.y (IWG)

Other Manual(s):
235-105-110  System Maintenance Requirements and Tools
235-105-220  Corrective Maintenance
RST:IWGLI

Software Release: 5E15 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Requests that an inter-working gateway link interface (IWGLI) be restored to service.

2. FORMAT

RST:IWGLI=a-b-c-d[,STBY]~[,UCL];

3. EXPLANATION OF MESSAGE

STBY = Restore the unit to the standby state. If this state is not specified, the unit is restored to the active state.

UCL = Unconditionally execute the restore.

a = Switch module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

b = Inter-working gateway (IWG) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

c = Data group (DG) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

d = Inter-working gateway link interface (IWGLI) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

NG = No good. The request has been denied. The message is valid but the request conflicts with current status.

PF = Printout follows. Followed by the RST:IWGLI output message.

RL = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

Input Message(s):

ABT:IWGLI
STP:IWGLI
RMV:IWGLI

Output Message(s):
RST:IWUFAC
Software Release: 5E16(1) and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE
Requests that an inter-working unit facility (IWUFAC) be restored to service.

2. FORMAT
RST:IWUFAC=a-b-c[,UCL];

3. EXPLANATION OF MESSAGE

ALL = Restore all the inter-working unit facilities.
UCL = Unconditionally execute the restore.
a = Switch module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
b = Inter-working unit (IWU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
c = Inter-working unit facility (IWUFAC) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

NG = No good. The request has been denied. The message is valid but the request conflicts with current status.
PF = Printout follows. Followed by the RST:IWUFAC output message.
RL = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES
Input Message(s):
ABT:IWUFAC
STP:IWUFAC
RMV:IWUFAC

Output Message(s):
RST:IWUFAC

Input Appendix(es):
APP: RANGES

MCC Display Page(s):
1340,y (IWU)

Other Manual(s):
235-105-110 System Maintenance Requirements and Tools
235-105-220 Corrective Maintenance
RST:LDSF

Software Release: 5E14 and later  
Command Group: SM  
Application: 5  
Type: Input

1. PURPOSE

Conditionally or unconditionally restores a local digital service function (LDSF) circuit to service. If restored conditionally, the diagnostic will be run. All tests must pass before the unit will be restored to service. If restored unconditionally, no testing is performed.

2. FORMAT

RST:LDSF=a-b [,UCL];

3. EXPLANATION OF MESSAGE

UCL = Unconditionally restores without diagnosis.

a = Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

b = LDSF number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

PF = Printout follows. Followed by RST:LDSF output message.

5. REFERENCES

Input Message(s):

RMV:LDSF

Output Message(s):

RST:LDSF

Input Appendix(es):

APP: RANGES
RST:LDSU

Software Release: 5E14 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Conditionally or unconditionally restores a local digital service unit-model 2 (LDSU2) board to service. If restored conditionally, the diagnostic will be run. All tests must pass before the unit will be restored to service. If restored unconditionally, no testing is performed.

2. FORMAT

RST:LDSU=a-b-c [,UCL];

3. EXPLANATION OF MESSAGE

UCL = Unconditionally restores without diagnosis.

a = Switching module (SM) number.

b = Local digital service unit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

c = Service group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

PF = Printout follows. Followed by RST:LDSU output message.

5. REFERENCES

Output Message(s):

RST:LDSU

Input Appendix(es):

APP:RANGES
RST:LDSUCOM
Software Release: 5E14 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE
Conditionally or unconditionally restores a local digital service unit common (LDSUCOM) board to service.

2. FORMAT
RST:LDSUCOM=a-b-c [,UCL];

3. EXPLANATION OF MESSAGE
If restored conditionally, the diagnostic will be run. All tests must pass before the unit will be restored to service. If restored unconditionally, no testing is performed.

UCL = Unconditionally restores without diagnosis.
a = Switching module number.
b = Local digital service unit number (0).
c = Service group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE
PF = Followed by RST:LDSUCOM output message.

5. REFERENCES
Output Message(s):
RST:LDSUCOM

Input Appendix(es):
APP:RANGES
RST:LINE

Software Release: 5E14 and later
Command Group: TRKLN
Application: 5
Type: Input

1. PURPOSE

Requests that a line be restored to service by deleting the specified out-of-service (OOS) condition. A line may have from one to four OOS statuses. If no other OOS status is pending after the OOS status is deleted, the line is placed back in service and idled. If another OOS status was pending, the line is treated according to the pending OOS status.

2. FORMAT


3. EXPLANATION OF MESSAGE

Refer to the Acronym section of the Input Messages manual for the full expansion of acronyms shown in the format.

UCL = Restore the line unconditionally. No operational test will be run (default).

a = Telephone number of the line.

b = Channel identifier. Used only for digital subscriber lines (DSLs). Valid value(s):
   B1
   B2
   D (default)

   If this option is not specified or if the D-channel is specified, an attempt will be made to restore the D-channel and all on-demand service B-channels, but permanent packet B-channels will not be restored. If a B-channel is specified, only that B-channel will be restored to service.

   The channel identifier is ignored for Operator Services Position System (OSPS) digital subscriber lines (DSLs) serving basic services terminals (BSTs) and operator position terminals (OPTs). For BST and OPT DSLs, the entire DSL will be restored to service even if only the D-channel or a B-channel is specified in the input request.

   A modem pool member consists of an analog line and a DSL. They are identified by the same multi-line hunt group (MLHG) member number. For format 4, if channel is not specified and the MLHG specified is a modem pool group, by default, the analog side is selected for restoration. To restore DSL side of the member the channel should be set explicitly to D. Whenever the DSL (multi-point DSL) is restored the OOS MTC FE MPOOS AUTO status on corresponding analog line(s) of the modem pool member is deleted.

c = Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

d = Line unit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
e = Line group controller number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

f = Line card number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

h = Line unit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

i = Grid number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

j = Switch board number (0, 1 or ALL). If ALL is specified, all lines on the specified grid are restored.

k = Switch number. This variable is not required if the switch board number (variable 'j') equals ALL. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

l = Level number. This variable is not required if the switch board number (variable 'j') equals ALL. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

m = Multi-line hunt group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

n = Hunt group member number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

p = Digital carrier line unit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

q = Remote terminal (RT) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

r = RT line number (1-96 or ALL). If ALL is specified, all 96 possible lines on the RT will be restored.

s = Member number of the MLHG or line time slot bridging (LTSB) line. For MLHG the DN specified must be the main DN for the group and the member number specifies which member of the group will be restored. For LTSB a member number of 1 will restore the lead line and a member number of 2 will restore the associate line. If no member number is specified for 1-DN LTSB the lead line and the associate line will both be restored. If no member number is specified for 2-DN LTSB the line associated with the DN entered will be restored.

t = IDCU number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

u = Remote terminal (RT) number or IDCU digital signal level 1 (DS1) serving PUB43801 number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

v = RT line number or PUB43801 channel. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

Variables 'w' through 'z' give the line status currently in effect on the line that is to be deleted; therefore, removing that restriction. Status subfields are always separated by a single comma, even if in-between statuses are omitted (as in OOS,DSBLD).
\[ w \] = Basic state (choose one or omit). Valid value(s):
- ALL = If entered, no other status fields need be specified and all existing status information (primary and pending) will be removed for the specified line(s). This will result in the line(s) being placed in-service (IS). Care should be exercised when using this option because restoring lines that are OOS MTCE FE or FAF could result in undesired effects (that is, PORTLA audit failures and so forth).
- OOS = Out-of-service (default).

\[ x \] = Qualifier (choose one or omit). Valid value(s):
- BLKD = Blocked. If variable \( w \) is not specified, it will be defaulted to OOS.
- CADN = Circuit administration. If variable \( w \) is not specified, it will be defaulted to OOS.
- CUTOVER = Pre-cut line. If variable \( w \) is not specified, it will be defaulted to OOS.
- DSLINIT = DSL initialization. If variable \( w \) is not specified, it will be defaulted to OOS.
- MKBUSY = Make busy. If variable \( w \) is not specified, it will be defaulted to OOS.
- MTCE = Maintenance (default). If variable \( w \) is not specified, it will be defaulted to OOS.
- PPSRV = Pre/post service. If variable \( w \) is not specified, it will be defaulted to OOS.
- TMT = Traffic management (valid only for outgoing trunks). If variable \( w \) is not specified, it will be defaulted to OOS.

\[ y \] = Operational restrictions (choose one or omit). Valid value(s):
- DCHOOS = D-channel is out-of-service. If variable \( x \) is not specified, it will be defaulted to MTCE.
- DSBLD = Disabled (default). If variable \( x \) is not specified, it will be defaulted to MTCE.
- HW = High and wet. If variable \( x \) is not specified, it will be defaulted to MTCE.
- LVL1ERR = Level 1 error. If variable \( x \) is not specified, it will be defaulted to MTCE.
- LVL2ERR = Level 2 error. If variable \( x \) is not specified, it will be defaulted to MTCE.
- LVL3ERR = Level 3 error. If variable \( x \) is not specified, it will be defaulted to MTCE.
- PLGUP = Plug-up. If variable \( x \) is not specified, it will be defaulted to MTCE.
- PX = Power cross. If variable \( x \) is not specified, it will be defaulted to MTCE.
- RAP = Recorded announcement port. If variable \( x \) is not specified, it will be defaulted to MTCE.

If the entire port status is omitted the status will default to OOS, MTCE, and DSBLD. If a status sub-field is entered without entering the previous sub-field, the default values indicated will be assumed.

\[ z \] = Supplementary information (choose one or omit). Valid value(s):
- AML = Automatic maintenance limit.
- AUDIT = Audit-detected problem.
- CAMA = Central automatic message accounting.
- CAROT = Centralized automatic reporting on trunks.
- CDI = Control and data interface.
- CKT = General circuit.
- CTTU = Central trunk testing unit.
- DFI = Digital facility interface.
- DLNORSP = DAS/C link no response.
- DYGSPUS = Dying gasp message from ANSI®-U DSL.
- FORPOT = Foreign potential.
- GRD = Ground fault.
- GRID = Line unit grid bad.
IAA = Ineffective attempt analysis.
ISLU = Integrated services line unit.
LINK1 = The basic rate interface transmission extension (BRITE) link one is down.
LINK2 = The BRITE link two is down.
LINK3 = The BRITE link three is down.
LINK4 = The BRITE link four is down.
LINK5 = The BRITE link five is down.
LINK6 = The BRITE link six is down.
MPP = Modem-pool problem.
MSMTCH = Mismatch.
MTCECH = Maintenance channel.
NR = No response.
NRT = No response while in test mode.
NTDACT = Network termination (NT) is deactivated.
NTOFN = NT off normal.
NTPWR = NT lost power.
OPNOXL3 = OSPS position no level 3 protocol.
PCTF = Per-call test failure.
POSNOB = OSPS position no B-channel.
POSNRSP = OSPS position no response.
PPM = Periodic pulse metering unit.
PSU = Packet switch unit.
REX = Routine exercise.
RO = Routine/other.
ROTF = Operational trouble (that is, scanner stuck off-hook).
SCC = Removed by Switching Control Center.
SPARED = Line is involved in an ISLU sparing configuration.
STKSCN = Suspected stuck scan (STKSCN) lead on the line group controller (LGC) or the line card (LC).
SWEQF = Switch equipment failure.
TEST = In test mode.
TEST1 = Testing in progress at the NT or BRITE channel unit (CU) and the BRITE link one is down.
TEST2 = Testing in progress at the NT or BRITE CU and the BRITE Link two is down.
TEST3 = Testing in progress at the NT or BRITE CU and the BRITE Link three is down.
TEST4 = Testing in progress at the NT or BRITE CU and the BRITE Link four is down.
TEST5 = Testing in progress at the NT or BRITE CU and the BRITE Link five is down.
TEST6 = Testing in progress at the NT or BRITE CU and the BRITE Link six is down.
TICOM = Treated interface unit common circuit.
TINTF = The T interface is down.
TRBL = Unspecified trouble.
TRBLORG = Origination trouble.
TREQF = Transmission equipment failure.
TRKBD = Trunk board.
TRKCT = Trunk circuit.
UINTF = The ANSI® standard U-interface is down.

\(^a^1\) = Line group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

\(^b^1\) = Line board number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
Messages manual.

\( c^1 \) = Line circuit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

\( d^1 \) = Access interface unit (AIU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

\( e^1 \) = AIU pack number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

\( f^1 \) = AIU circuit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

\( g^1 \) = Digital network unit - synchronous optical network (SONET) (DNU-S) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

\( h^1 \) = Virtual analog line number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

\( i^1 \) = Virtual BRI line number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

\( j^1 \) = Equipment number: Valid value(s):

\[ ILEN=c-t-u-v \]
\[ LCEN=c-d-e-f \]
\[ LCKEN=c-d-a^1-b^1-c^1 \]
\[ LEN=c-h-i \]
\[ MLHG=m-n \]
\[ SLEN=c-p-q-r \]
\[ AIUEN=c-d^1-e^1-f^1 \]
\[ INEN=c-g^1-u-v \]
\[ VANA=c-h^1 \]
\[ VBRI=c-i^1 \]

4. SYSTEM RESPONSE

\( PF \) = Printout follows. Followed by the RST:LINE output message.

If the line to be restored is controlled by another request or activity, the port will be camped on (refer to the REPT:CAMPON output message). The camp-on can be stopped by using the STP:CAMPON input message, which aborts the line restoration.

\( RL \) = Retry later. Request denied, probably due to system load.

5. REFERENCES

Input Message(s):

OP:ST-LI
STP:CAMPON
Output Message(s):

REPT:CAMPON
RST:LINE

Input Appendix(es):

APP: RANGES

Other Manual(s):

235-105-220  Corrective Maintenance
RST:LN

Software Release: 5E14 and later
Command Group: CCS
Application: 5,CNI
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE
SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Requests that the specified link node (LN) be restored to service either conditionally or unconditionally.

WARNING: This input message contains time sensitive elements. Maintenance input request administrator (MIRA)
should be checked for LN maintenance activity (OP:DMQ) before using this input message. If there is
any LN maintenance activity (active or queued) it should be allowed to complete before using this input
message.

2. FORMAT

RST:LN\(a=b\)\[\[:\]RAW\[::\]:TLP\]\[\[,\]:UCL\]\;

3. EXPLANATION OF MESSAGE

RAW  = Print the diagnostic results of every phase. The default is to print the results of the first five failures
of each failing phase.

TLP  = Execute the trouble locating procedure (TLP) at the conclusion of the diagnostic. The TLP
generates a list of suspected faulty equipment.

UCL  = Restore the node unconditionally. The default is a conditional restoration.

If the LN major state is not out-of-service (OOS), the restoration is stopped. If the LN major state is
OOS, an attempt is first made to include the LN into the active ring. If the inclusion fails, the
restoration is stopped. If the inclusion succeeds, the LN is restored to service (pumped with
operational code, placed into execution, and its major state changed to active [ACT]).

Note: The UCL parameter should not be used with any other parameter. If it is used with
another parameter then the other parameter will be ignored.

a  = Ring node (RN) group number. Refer to the APP:RANGES appendix in the Appendixes section of
the Input Messages manual.

b  = Member number. Refer to the APP:RANGES appendix in the Appendixes section of the Input
Messages manual.

4. SYSTEM RESPONSE

PF  = Printout follows. The system action is different for conditional and unconditional restoration
requests as described in 'UCL'.
5. REFERENCES

Input Message(s):

DGN : LN
FRMV : LN
INIT : LN
OP : DMQ
RMV : LN

Output Message(s):

DGN : LN
FRMV : LN
INIT : LN
OP : DMQ
REPT : IUN–RST
RMV : LN
RST : LN

Input Appendix(es):

APP : RANGES

Other Manual(s):

235-105-220 Corrective Maintenance
235-190-120 Common Channel Signaling Service Features

MCC Display Page(s):

118 (CNI RING STATUS)
1520 (RING NODE STATUS)
RST:LUCHAN

Software Release: 5E14 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE
Conditionally or unconditionally restores a single line unit channel (LUCHAN) circuit to service.

2. FORMAT
RST:LUCHAN=a-b-c-d-e[,UCL];

3. EXPLANATION OF MESSAGE
If restored conditionally, the diagnostic will be run. All tests must pass before the unit will be restored to service. If restored unconditionally, no testing is performed.

UCL = Unconditionally restores without diagnosis.

a = Switching module number.

b = Line unit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

c = Service group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

d = Channel board number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

e = Channel number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

PF = Followed by RST:LUCHAN output message.

5. REFERENCES
Output Message(s):

RST:LUCHAN

Input Appendix(es):

APP:RANGES
RST:LUCHBD

Software Release: 5E14 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Conditionally or unconditionally restores a line unit channel board (LUCHBD) to service.

2. FORMAT

RST:LUCHBD=a-b-c-d[,UCL];

3. EXPLANATION OF MESSAGE

If restored conditionally, the diagnostic will be run on all line unit channel (LUCHAN) circuits on the board. All tests must pass before the unit will be restored to service. If restored unconditionally, no testing is performed.

UCL = Unconditionally restores without diagnosis.

a = Switching module number.

b = Line unit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

c = Service group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

d = Channel board number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

PF = Followed by RST:LUCHBD output message.

5. REFERENCES

Output Message(s):

   RST:LUCHBD

Input Appendix(es):

   APP:RANGES
RST:LUOMC

Software Release: 5E14 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Conditionally or unconditionally restores a line unit common control (LUOMC) to service.

2. FORMAT

RST:LUOMC=a-b-c[,UCL];

3. EXPLANATION OF MESSAGE

If restored conditionally, the diagnostic will be run. All tests must pass before the unit will be restored to service. If restored unconditionally, no testing is performed.

UCL = Unconditionally restores without diagnosis.

a = Switching module number.

b = Line unit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

c = Service group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

PF = Followed by RST:LUOMC output message.

5. REFERENCES

Output Message(s):

RST:LUOMC

Input Appendix(es):

APP:RANGES
RST:LUHLSC
Software Release: 5E14 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Conditionally or unconditionally restores a line unit high service circuit (LUHLSC) to service.

2. FORMAT

RST:LUHLSC=a-b-c-d[,UCL];

3. EXPLANATION OF MESSAGE

If restored conditionally, the diagnostic will be run. All tests must pass before the unit will be restored to service. If restored unconditionally, no testing is performed.

UCL = Unconditionally restores without diagnosis.
a = Switching module number.
b = Line unit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
c = Service group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
d = High level service circuit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

PF = Followed by RST:LUHLSC output message.

5. REFERENCES

Output Message(s):

RST:LUHLSC

Input Appendix(es):

APP:RANGES
RST:MA  
Software Release: 5E14 and later  
Command Group: SM  
Application: 5  
Type: Input

1. PURPOSE
Requests that a metallic access (MA) board in a metallic service unit (MSU) be conditionally or unconditionally restored to service.

2. FORMAT
RST:MA=a-b-c-d[,UCL];

3. EXPLANATION OF MESSAGE
If restored conditionally, the diagnostic will be run. All tests must pass before the unit will be restored to service. If restored unconditionally, no testing is performed.

UCL = Unconditionally restores without diagnosis.

a = Switching module number.

b = Metallic service unit number.

c = Service group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

d = Metallic access board number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE
PF = Followed by RST:MA output message.

5. REFERENCES
Output Message(s):
   RST:MA

Input Appendix(es):
   APP:RANGES
1. PURPOSE

Requests that the metallic access bus (MAB) be restored to the active state conditionally or unconditionally. If restored conditionally, the diagnostic will be run. All tests must pass before the unit will be restored to service. If restored unconditionally, no testing is performed.

2. FORMAT

RST:MAB=a-b-c-d[,UCL];

3. EXPLANATION OF MESSAGE

UCL = Unconditionally restores without diagnostics.
a = Switching module number.
b = Unit number.
c = Service group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
d = Board number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

PF = The request was accepted. Followed by an RST:MAB output message.

5. REFERENCES

Output Message(s):

RST:MAB

Input Appendix(es):

APP:RANGES

Software Release: 5E14 and later
Command Group: SM
Application: 5
Type: Input
RST:MCTSI

Software Release: 5E14 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Requests that a module control/time slot interchange unit (MCTSI) be conditionally or unconditionally restored to the active state.

If restoration is conditional, the diagnostic will be run. All tests must be passed before the unit is restored to service. If restoration is unconditional, no testing is performed.

2. FORMAT

RST:MCTSI=a[&b]-c[,UCL][,STBY][,RETRO];

3. EXPLANATION OF MESSAGE

RETRO = Restore conditionally, but run phase 3 of diagnostic. UCL overrides RETRO if both are specified.
STBY = Restore to standby (instead of active) state.
UCL = Unconditionally restore without diagnosis.
a = Switching module (SM) number or lower limit for a range of SM numbers.
b = Upper limit of a range of SM numbers.
c = Module controller unit number (0 or 1).

4. SYSTEM RESPONSE

PF = Printout follows. An RST:MCTSI output message will be printed.

5. REFERENCES

Output Message(s):
RST:MCTSI

MCC Display Page(s):
1800,x (INH & RCVY CNTL)
RST:MD

Software Release: 5E14 and later
Command Group: CCS
Application: 5
Type: Input

1. PURPOSE

Restores the intra-global switching module (GSM) common channel signal (CCS) message delivery (MD) path. Message delivery communication is possible on completion of the request.

Note: This input message is applicable only for PSU platform CCS7.

2. FORMAT

RST:MD, SM=a;

3. EXPLANATION OF MESSAGE

a = GSM number. The switching module (SM) specified must be a CCS GSM.

4. SYSTEM RESPONSE

NG = No good. May also include:
   - INVALID MD PATH = The SM specified is not a GSM.
   - NO GLOBAL SM = No GSMs are provisioned in the office.
   - SM NOT EQUIPPED = SM specified in the input message does not exist in the office.

PF = Printout follows. Followed by the RST:MD output message.

RL = Retry later. May also include:
   - SM NOT AVAILABLE = Command cannot be processed because the specified GSM is not accessible.

5. REFERENCES

Output Message(s):

RST:MD

Other Manual(s):
235-190-120 Common Channel Signaling Service Features

MCC Display Page(s):
1530 (GLOBAL SM MESSAGE DELIVERY STATUS)
RST:MELNK

**Software Release:** 5E14 and later
**Command Group:** SM
**Application:** 5
**Type:** Input

1. **PURPOSE**

Requests that a single MCTSI-based ethernet link (MELNK) or all MELNKs on a switching module (SM) be restored to service.

2. **FORMAT**

   
   RST:MELNK\{=a-b-c|,ALL,SM=a\}[,UCL];

3. **EXPLANATION OF MESSAGE**

   **ALL** = Restore all MELNKs that are in an out of service state.

   **UCL** = Restore unconditionally.

   **a** = SM number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

   **b** = MCTSI-based ethernet pipe (MEPIPE) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

   **c** = MELNK number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. **SYSTEM RESPONSE**

   **NG** = No good. Valid qualifiers are:
   - NO SUCH SM = Input command specified an SM that does not exist.
   - SM UNEQ = Input command specified an SM that is unequipped
   - UNIT UNEQ = Either "ALL" is specified and the specified SM has no equipped MELNKs, or the specified individual MELNK is not equipped.

   **RL** = Retry later. The request cannot be executed now due to unavailable system resources. Optional additional qualifiers are:
   - SM ISOLATED = Cannot communicate with requested SM.

   **PF** = Printout follows. A RST:MELNK output message will follow in response to the request.

5. **REFERENCES**

   Output Message(s):

   RST:MELNK
Input Appendix(es):

APP : RANGES

MCC Display Page(s):

1204 (MELNK STATUS)
RST:MHD

Software Release: 5E14 and later
Command Group: AM
Application: 5,3B
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Conditionally or unconditionally restores a moving head disk (MHD) to service. If restored conditionally, an MHD diagnostic is run, and must be all tests pass (ATP) before the unit is restored to service. If restored unconditionally, no testing is performed.

Note: The disk file controller (DFC) must be in service before the MHD can be restored.

WARNING: This message should not be executed when AM or CM REX is executing. If the MHD must be restored, halt any AM or CM REX activity before restoring the MHD.

2. FORMAT

RST:MHD=a [:UCL][,CONT] [:RAW][:DATA[,TLP][,CONT]];

3. EXPLANATION OF MESSAGE

CONT = Includes only the specified unit (controller). Units attached to the specified unit will not be included. If the specified unit has no attached units, CONT is ignored.

RAW = Prints the diagnostic results of every phase. The default is the first five failures of each failing phase.

TLP = Executes the trouble locating procedure (TLP) at the conclusion of the diagnostic. This process generates a list of suspected faulty equipment.

Note: The TLP and UCL parameters should not be used together, as no testing is performed on an unconditional restore.

UCL = Unconditional restoration. The default is conditional restoration.

a = Member number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

PF = Printout follows. Followed by RST:MHD output message.

5. REFERENCES
Input Message(s):

DGN:DFC
DGN:MHD
RMV:DFC
RMV:MHD
RST:DFC

Output Message(s):

ANALY: TLPDFILE
DGN:DFC
DGN:MHD
RMV:DFC
RMV:MHD
RST:DFC
RST:MHD

Input Appendix(es):

APP: RANGES

Other Manual(s):

235-105-220 Corrective Maintenance

MCC Display Page(s):

(COMMON PROCESSOR)
RST:MMP

Software Release: 5E14 and later
Command Group: CM
Application: 5
Type: Input

1. PURPOSE
Requests that a message module processor (MMP) be restored to the active state.

Note: For conditional restores, if the unit is not OOS, the system will first remove the unit conditionally.

2. FORMAT
RST:MMP=a-b[,UCL];

3. EXPLANATION OF MESSAGE
UCL = Restore the MMP unconditionally. No diagnostics are performed.

Note: For offices having CM3 vintage communications modules, the restore will always be run unconditionally, with or without the UCL parameter.

a = Message switch side. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

b = MMP number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE
NG = No good. The message form is valid, but the request conflicts with the current status.
PF = Printout follows. Followed by an RST:MMP output message.
RL = Retry later. The request cannot be executed now.

5. REFERENCES
Output Message(s):
   DGN:MMP
   RST:MMP

Input Appendix(es):
   APP:RANGES

Other Manual(s):
RST:MSCU

Software Release: 5E14 and later
Command Group: CM
Application: 5
Type: Input

1. PURPOSE

Conditionally or unconditionally restores a message switch control unit (MSCU) to the active state.

Note 1: For conditional restores, if the unit is not OOS, the system will first remove the unit conditionally.

Note 2: For offices having CM3 vintage communication modules, MSCU diagnostics no longer exist as part of an MSCU conditional restore. A MSGS conditional restore can be executed which will run diagnostics on the MSCU and all MSGS subunits.

2. FORMAT

RST:MSCU=a[,UCL];

3. EXPLANATION OF MESSAGE

UCL = Unconditionally restores the MSCU. No diagnostics are performed. If the peripheral controllers subordinate to the MSCU are OOS AUTO/MAN FE, they will also be restored UCL. Otherwise, the subunits will be left in their current state.

a = Message switch number (0 or 1).

4. SYSTEM RESPONSE

NG = The message is invalid.
PF = Printout follows.
RL = The request cannot be executed now; try again later.

5. REFERENCES

Input Message(s):

OP:CFGSTAT
RST:MSGS

Output Message(s):

OP:CFGSTAT
RST:MSCU
RST:MSGS

Software Release: 5E14 and later
Command Group: CM
Application: 5
Type: Input

1. PURPOSE
Restores a message switch (MSGS) to an in service condition.

2. FORMAT
RST:MSGS=a[,{UCL|NIS}];

3. EXPLANATION OF MESSAGE

NIS = Conditionally restores only the portions of the MSGS complex that are not in service. If this option is not used all equipped parts of the MSGS will be restored.

UCL = Unconditionally restores the specified MSGS. No diagnostics are performed.

a = MSGS side (0 or 1).

4. SYSTEM RESPONSE

NG = No good. The request has been denied. The message syntax is valid, but the request could not be processed. Refer to the APP:CM-IM-REASON appendix in the Appendixes section of the Input Messages manual for a list of possible reasons for denying the request.

PF = Printout follows.

RL = Retry later. The request cannot be executed now because the communication module (CM) deferred maintenance queue (DMQ) is full.

5. REFERENCES

Input Message(s):

DGN:MSGS
RMV:MSGS

Input Appendix(es):

APP:CM-IM-REASON

Output Message(s):

DGN:MSGS
RMV:MSGS
RST:MSGS
RST:MSUCOM

Software Release: 5E14 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE
Requests that a metallic service unit common (MSUCOM) board be conditionally or unconditionally restored to service.

2. FORMAT
RST:MSUCOM=a-b-c [,UCL];

3. EXPLANATION OF MESSAGE
If restored conditionally, the diagnostic will be run. All tests must pass before the unit will be restored to service. If restored unconditionally, no testing is performed.

UCL = Unconditionally restores without diagnosis.
a = Switching module number.
b = Metallic service unit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
c = Service group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE
PF = Followed by RST:MSUCOM output message.

5. REFERENCES
Output Message(s):
RST:MSUCOM

Input Appendix(es):
APP:RANGES
RST:MT

**Software Release:** 5E14 and later  
**Command Group:** AM  
**Application:** 5,3B  
**Type:** Input

**1. PURPOSE**

Restores the specified magnetic tape (MT) device to service.

**Note:** For MT residing under the disk file controller (DFC), the DFC and small computer system interface (SCSI) bus (SBUS) must be in service before the MT can be restored.

**Note:** For MT residing under the input/output processor (IOP), and magnetic tape controller (MTC) must be in service before the MT can be restored.

**2. FORMAT**

\[
\text{RST:MT}=a[:UCL|:RAW|:DATA][:,TLP];
\]

**3. EXPLANATION OF MESSAGE**

- **RAW**
  = Prints the diagnostic results of every phase. Default is the first five failures of each failing phase. Not available for IOP MT units.
  **Note:** The RAW and UCL parameters cannot be used together, because no testing is performed on an unconditional restore.

- **TLP**
  = Executes the trouble location procedure (TLP) at the conclusion of the diagnostic. This process generates a list of suspected faulty equipment. Not available for IOP MT units.

- **UCL**
  = Unconditional restore. Default is conditional restore.

- **a**
  = Member number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

**4. SYSTEM RESPONSE**

- **PF**
  = Printout follows. Followed by the RST:MT output message.

- **RL**
  = Retry Later. The system is in overload condition.

- **?D**
  = General syntax error in the data field, followed by the parameter position and:
  - **EXTRA KEYWORD** = Duplicate or extraneous keywords were input.
  - **INVALID KEYWORD** = The keyword in the stated parameter position is not a valid keyword.

- **?E**
  = Input error of undetermined type.

- **?I**
  = General syntax error, followed by the parameter position and:
  - **EXTRA KEYWORD** = Duplicate or extraneous keywords were input.
- INVALID KEYWORD = The keyword in the stated parameter position is not a valid keyword.
- MISSING KEYWORD = A required keyword is missing from the input.

5. REFERENCES

Input Message(s):

DGN:IOP
DGN:MTC
RMV:IOP
RMV:MT
RMV:MTC
RST:IOP
RST:MTC

Output Message(s):

DGN:IOP
DGN:MTC
RMV:IOP
RMV:MT
RMV:MTC
RST:IOP
RST:MT
RST:MTC

Input Appendix(es):

APP:RANGES

Other Manual(s):
235-105-220 Corrective Maintenance
RST:MTB

Software Release: 5E14 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

A metallic access test bus (MTB) in a metallic access board (MA) be conditionally or unconditionally restored to service.

2. FORMAT

RST:MTB=a-b-c-d-e[,UCL];

3. EXPLANATION OF MESSAGE

If restored conditionally, the diagnostic will be run. All tests must pass before the unit will be restored to service. If restored unconditionally, no testing is performed.

UCL = Unconditionally restores without diagnosis.

a = Switching module number.
b = Metallic service unit number.
c = Service group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
d = Metallic access board number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
e = Metallic access test bus number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

PF = Followed by RST:MTB output message.

5. REFERENCES

Output Message(s):

RST:MTB

Input Appendix(es):

APP: RANGES

MCC Display Page(s):
RST:MTC

Software Release: 5E14 and later
Command Group: AM
Application: 5,3B
Type: Input

1. PURPOSE

Conditionally or unconditionally restores a magnetic tape controller (MTC) to service. If restored conditionally, an MTC diagnostic is run and must be all tests pass (ATP) before the unit is restored to service. If restored unconditionally, no testing is performed.

Note: The input/output processor (IOP) must be in service before the MTC can be restored.

2. FORMAT

RST:MTC=a [:UCL][, CONT] | [:RAW][:DATA[,TLP][,CONT][,MT=b]]

3. EXPLANATION OF MESSAGE

CONT = Restores only the MTC. The default is to restore the MTC and all associated magnetic tape devices.

RAW = Prints the diagnostic results of every phase. The default is the first five failures of each failing phase.

TLP = Executes the trouble locating procedure (TLP) at the conclusion of the diagnostic. This process generates a list of suspected faulty equipment.

UCL = Unconditional restoration. The default is conditional restoration.

Note: The TLP and UCL parameters should not be used together, as no testing is performed on an unconditional restore.

a = Member number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

b = Specified helper unit, required for some diagnostic phases. An entry in the data field other than a keyword or keyword parameter is the specified helper unit. When a helper unit is not required, the specified helper unit is ignored. When a helper unit is required but the specified helper unit is inappropriate or unavailable, the helper unit dependent tests are skipped.

4. SYSTEM RESPONSE

PF = Printout follows. Followed by RST:MTC output message.

5. REFERENCES

Input Message(s):
RST:MTIB

**Software Release:** 5E14 and later  
**Command Group:** SM  
**Application:** 5  
**Type:** Input

1. **PURPOSE**

Restores the metallic test interconnect bus (MTIB) to the active state conditionally or unconditionally. If restored conditionally, the diagnostic will be run. All tests must pass before the unit will be restored to service. If restored unconditionally, no testing is performed.

2. **FORMAT**

RST:MTIB=a[,UCL];

3. **EXPLANATION OF MESSAGE**

- **UCL** = Unconditionally restores without diagnostics.
- **a** = MTIB number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. **SYSTEM RESPONSE**

- **NG** = The request has been denied. The message form is valid, but the request conflicts with current status.
- **PF** = The request was accepted. Followed by an RST:MTIB output message.
- **RL** = Repeat later. The request cannot be executed now due to unavailable system resources.

5. **REFERENCES**

Output Message(s):

RST:MTIB

Input Appendix(es):

APP:RANGES
RST:MTIBAX

**Software Release:** 5E14 and later  
**Command Group:** SM  
**Application:** 5  
**Type:** Input

1. **PURPOSE**

Restores the metallic test interconnect bus access (MTIBAX) to the active state conditionally or unconditionally. If restored conditionally, the diagnostic will be run. All tests must pass before the unit will be restored to service. If restored unconditionally, no testing is performed.

2. **FORMAT**

```
RST:MTIBAX=a-b-c-d[,UCL];
```

3. **EXPLANATION OF MESSAGE**

- **UCL** = Unconditionally restores without diagnostics.  
- **a** = Switching module number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.  
- **b** = Unit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.  
- **c** = Service group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.  
- **d** = Board number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. **SYSTEM RESPONSE**

```
PF = The request was accepted. Followed by an RST:MTIBAX output message.
```

5. **REFERENCES**

**Output Message(s):**

RST:MTIBAX

**Input Appendix(es):**

APP:RANGES
1. PURPOSE
Restores the specified maintenance teletypewriter (MTTY) to service.

Note: The input/output processor (IOP) and maintenance teletypewriter controller (MTTYC) must be in service before the MTTY can be restored.

2. FORMAT

RST:MTTY=a;

3. EXPLANATION OF MESSAGE

a = Member number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

PF = Printout follows. Followed by RST:MTTY output message.

5. REFERENCES

Input Message(s):

DGN:IOP
DGN:MTTYC
RMV:IOP
RMV:MTTYC
RST:IOP
RST:MTTYC

Output Message(s):

DGN:IOP
DGN:MTTYC
RMV:IOP
RMV:MTTYC
RST:IOP
RST:MTTY
RST:MTTYC

Input Appendix(es):
APP : RANGES

Other Manual(s):
235-105-220  Corrective Maintenance

MCC Display Page(s):
(COMMON PROCESSOR)
RST:MTTYC

Software Release: 5E14 and later
Command Group: AM
Application: 5,3B
Type: Input

1. PURPOSE

Restores conditionally or unconditionally a maintenance teletypewriter controller (MTTYC) to service. If restored conditionally, an MTTYC diagnostic is run and must be all tests pass (ATP) before the unit is restored to service. If restored unconditionally, no testing is performed.

Note: The input/output processor (IOP) must be in service before the MTTYC can be restored.

2. FORMAT

RST:MTTYC=a [:UCL[,CONT]] [:RAW][[:DATA][,TLP][,CONT]];

3. EXPLANATION OF MESSAGE

CONT = Restores only the MTTYC. The default is to restore the MTTYC and all associated maintenance teletypewriters, receive-only printers (ROP), and Switch Control Center (SCC) data link subdevices.

RAW = Prints the diagnostic results of every phase. The default is the first five failures of each failing phase.

TLP = Executes the trouble locating procedure (TLP) at the conclusion of the diagnostic. This process generates a list of suspected faulty equipment.

Note: The TLP and UCL parameters should not be used together, as no testing is performed on an unconditional restore.

UCL = Unconditional restoration. The default is conditional restoration.

a = Member number (0-255).

4. SYSTEM RESPONSE

PF = Printout follows. Followed by RST:MTTYC output message.

5. REFERENCES

Input Message(s):

DGN:IOP
DGN:MTTYC
RMV:IOP
RMV:MTTYC
RST: IOP

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Output Message(s):

ANALY:TLPFILE
DGN:IOP
DGN:MTTYC
RMV:IOP
RMV:MTTYC
RST:IOP
RST:MTTYC

Other Manual(s):
235-105-220  Corrective Maintenance

MCC Display Page(s):

(COMMON PROCESSOR)
**RST:NCOSC-A**

*Software Release: 5E14 only*
*Command Group: CM*
*Application: 5*
*Type: Input*

1. **PURPOSE**

Restores a network clock 2 oscillator (NCOSC) to service. There are no diagnostics run on the NCOSC unit.

Note: Under normal conditions an oscillator may only be restored to service if it has been powered up for a minimum of one hour for a medium-stability (TN1284/TN1286) oscillator or 16 hours for a high-stability oscillator (TN1283/TN1285).

2. **FORMAT**

RST:NCOSC=a;

3. **EXPLANATION OF MESSAGE**

a = Unit side (0 or 1).

4. **SYSTEM RESPONSE**

NG = No good. The message syntax is valid, but the request conflicts with the current system or equipment status.

OK = The request was accepted and completed.

PF = Printout follows. An RST:NCOSC output message will follow in response to the request.

RL = Retry later. The request cannot be executed now due to unavailable system resources.

5. **REFERENCES**

Input Message(s):

RMV:NCOSC
SET:FRC-NCOSC

Output Message(s):

REPT:NC-NWP
RST:NCOSC

MCC Display Page(s):

(NETWORK CLOCK)
RST:NCOSC-B

Software Release: 5E15 and later
Command Group: CM
Application: 5
Type: Input

1. PURPOSE

Restores a network clock model 2 (NC2) or model 3 (NC3) oscillator (NCOSC) to service. There are no diagnostics run on the NCOSC unit.

Note: For NC2 it was that under normal conditions an oscillator may only be restored to service if it has been powered up for a minimum of one hour for a medium-stability (TN1284/TN1286) oscillator or 16 hours for a high-stability oscillator (TN1283/TN1285).

For NC3 it's a high-stability oscillator (MMB100) with a warmup time of 1.5 hours. The oscillators will not restore to STBY when the ONTCs are duplex (both in-service), since the ACT/STBY configuration only occurs when the ONTCs are simplex.

2. FORMAT

RST:NCOSC=a[,STATE=STBY];

3. EXPLANATION OF MESSAGE

a = Unit side (0 or 1).

STBY = Restore to a standby state.

4. SYSTEM RESPONSE

NG = No good. The message syntax is valid, but the request conflicts with the current system or equipment status.

OK = The request was accepted and completed.

PF = Printout follows. An RST:NCOSC output message will follow in response to the request.

RL = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

Input Message(s):

RMV:NCOSC
SET:FRC-NCOSC

Output Message(s):

REPT:NC-NWP
RST:NCOSC
MCC Display Page(s):

1210 (NETWORK CLOCK)
1211 (NETWORK CLOCK REFERENCES)
RST:NCREF-A
Software Release: 5E14 only
Command Group: CM
Application: 5
Type: Input

1. PURPOSE
Requests that a network clock reference (NCREF) be restored to service. There are no diagnostics run on NCREF units. External references will be restored to service on both clock sides.

2. FORMAT
RST:NCREF, (XC=a|b);

3. EXPLANATION OF MESSAGE
XC = Cross-couple reference.
a = Network clock side.
b = Network clock reference (NCREF).

<table>
<thead>
<tr>
<th>NC1</th>
<th>NC2</th>
</tr>
</thead>
<tbody>
<tr>
<td>PRIM</td>
<td>Reference</td>
</tr>
<tr>
<td>SEC</td>
<td>number, n=1-8</td>
</tr>
</tbody>
</table>

4. SYSTEM RESPONSE
NG = No good. The request has been denied. The message syntax is valid, but the request conflicts with the current system or equipment status.
PF = Printout follows. The request has been received. Followed by a RST:NCREF output message.
RL = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES
Input Message(s):
RMV:NCREF

Output Message(s):
RST:NCREF

Input Appendix(es):
APP:CM-IM-REASON

Other Manual(s):
235-105-110 System Maintenance Requirements and Tools
235-105-220  Corrective Maintenance

MCC Display Page(s):

1210 (MI/LI/NC)
1211 (NETWORK CLOCK)
RST:NCREF-B

Software Release: 5E15 and later
Command Group: CM
Application: 5
Type: Input

1. PURPOSE

Requests that a network clock reference (NCREF) be restored to service. There are no diagnostics run on NCREF units. External references will be restored to service on both clock sides.

2. FORMAT

RST:NCREF,\{XC=a|b[,TYPE=c][,UCL]\};

3. EXPLANATION OF MESSAGE

XC = Cross-couple reference. This is only legal for NC1 and NC2.
   a = Network clock side.
   b = Network clock reference (NCREF).

<table>
<thead>
<tr>
<th>NC1</th>
<th>NC2 or NC3</th>
</tr>
</thead>
<tbody>
<tr>
<td>PRIM Primary reference.</td>
<td>REFn Reference number, n=1-8.</td>
</tr>
<tr>
<td>SEC Secondary reference.</td>
<td></td>
</tr>
</tbody>
</table>

   c = Reference Type. This is only legal for NC3. This is only required if the same reference number is equipped with different reference types. The values are:
   10M = 10 MHz analog clock reference.
   2M = 2.048 MHz analog clock reference.
   CC = 64K Composite clock reference.
   DGTL = Digital clock reference.

   UCL = Applies only to REF1-REF8. Must be used to restore the last active reference.

4. SYSTEM RESPONSE

NG = No good. The request has been denied. The message syntax is valid, but the request conflicts with the current system or equipment status.

PF = Printout follows. The request has been received. Followed by a RST:NCREF output message.

RL = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

Input Message(s):

RMV : NCREF
Output Message(s):

RST: NCREF

Input Appendix(es):

APP: CM-IM-REASON
APP: RANGES

Other Manual(s):
235-105-110   System Maintenance Requirements and Tools
235-105-220   Corrective Maintenance

MCC Display Page(s):

1210 (NETWORK CLOCK)
1211 (NETWORK CLOCK REFERENCES)
RST: NLI

Software Release: 5E14 and later
Command Group: CM
Application: 5
Type: Input

1. PURPOSE

Requests that a specific network link interface (NLI) be restored to service.

Note: Automatic quad-link packet switch (QLPS) network switches may occur if the primary NLI is reconfigured/QLPSs are equipped.

2. FORMAT

RST: NLI=a-b-c[,UCL];

3. EXPLANATION OF MESSAGE

UCL = Restore the specific NLI unconditionally. Diagnostics are not executed.

a = Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

b = NLI number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

c = Office network and timing complex (ONTC) side number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

NG = No good. The request has been denied. The message syntax is valid, but the request could not be processed. Refer to the APP:CM-IM-REASON appendix in the Appendixes Section of the Input Messages manual for a list of possible reasons for denying the request.

PF = Printout follows. A RST:NLI output message follows.

RL = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

Input Message(s):

DGN: NLI
OP: DMQ-CM-SM
RMV: NLI

Output Message(s):
DGN: NLI
OP: DMQ-CM
OP: DMQ-SM
RST: NLI

Input Appendix(es):

APP: CM-IM-REASON
APP: RANGES

Other Manual(s):
235-105-110 System Maintenance Requirements and Tools
235-105-220 Corrective Maintenance
235-105-250 System Recovery Procedures

MCC Display Page(s):

1190 (MCTSI)
1200 (DLI/NLI)
RST:OC3

Software Release: 5E16(1) and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Requests that an optical carrier - level 3 (OC3) be restored to service. By default, the circuit is restored to stand-by state from simplex failure, and to active state from duplex failure.

2. FORMAT

RST:OC3=a-b-c-d-e[,UCL];

3. EXPLANATION OF MESSAGE

UCL = Restore unconditionally without first removing the OC3 circuit.

a = Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

b = Optical interface unit (OIU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

c = Protection group (PG) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

d = OC3 number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

e = Side number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

NG = No good. The message form is valid, but the request conflicts with current status.

PF = Printout follows. Followed by the RST:OC3 output message.

RL = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

Input Message(s):

ABT:OC3
STP:OC3

Output Message(s):

RST:OC3
Input Appendix(es):

APP : RANGES

Other Manual(s):
235-105-110  System Maintenance Requirements and Tools
235-105-220  Corrective Maintenance

MCC Display Page(s):
1491  OIU OC3 STATUS
RST:OC3C

Software Release: 5E16(2) and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Requests that an optical carrier - level 3 concatenated (OC3C) facility be restored to service. By default, the facility is restored to stand-by state from simplex failure, and to active state from duplex failure.

2. FORMAT

RST:OC3C=a-b-c-d-e[,UCL];

3. EXPLANATION OF MESSAGE

UCL = Restore unconditionally without first removing the OC3C facility.

a = Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

b = Optical interface unit (OIU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

c = Protection group (PG) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

d = OC3C number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

e = Side number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

NG = No good. The message form is valid, but the request conflicts with current status.

PF = Printout follows. Followed by the RST:OC3C output message.

RL = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

Input Message(s):

ABT:OC3C
STP:OC3C

Output Message(s):

RST:OC3C
Input Appendix(es):

APP : RANGES

Other Manual(s):
235-105-110 System Maintenance Requirements and Tools
235-105-220 Corrective Maintenance

MCC Display Page(s):
1491 OIU OC3C STATUS
RST:OFI

Software Release: 5E16(1) and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Requests that an optical facility interface (OFI) be restored to service. If the OFI is restored conditionally, the diagnostic runs and all tests must pass before service is restored to the unit. If the OFI is restored unconditionally, no testing is performed.

2. FORMAT

RST:OFI=a-b-c-d[,UCL];

3. EXPLANATION OF MESSAGE

UCL = Restore unconditionally without diagnostics and without first removing the OFI.

a = Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

b = Optical interface unit (OIU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

c = Protection group (PG) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

d = Side number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

NG = No good. The message form is valid, but the request conflicts with current status.

PF = Printout follows. Followed by the RST:OFI output message.

RL = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

Input Message(s):

ABT:OFI
STP:OFI

Output Message(s):

RST:OFI
**RST:ONTC**

**Software Release:** 5E14 and later  
**Command Group:** CM  
**Application:** 5  
**Type:** Input

**1. PURPOSE**

Requests a restore of the office network and timing complex (ONTC) to an in service condition. The ONTC complex consists of the ONTC common units (ONTCCOM) and dual link interfaces (DLIs). The ONTCCOM consists of the link interface (LI) (CM1 hardware only), message interface (MI), network clock (NC), and time multiplexed switch (TMS).

Format 1 calls for a conditional restore of the ONTC, with both a helper unit and the desired state of that side (active major or active minor) optionally specified. Format 2 calls for a conditional restore of the subunits of the ONTC that are currently not in service (NIS), with a helper unit optionally specified. Format 3 calls for an unconditional restore of the ONTC, with the desired state of that side (active major or active minor) optionally specified.

**2. FORMAT**

[1] RST:ONTC=a [:HELPER=b][,{MAJOR|MINOR}];

[2] RST:ONTC=a,NIS [:HELPER=b];

[3] RST:ONTC=a,UCL [, {MAJOR|MINOR}];

**3. EXPLANATION OF MESSAGE**

Note: If the MAJOR or MINOR option is not specified, the optimum side of the ONTC will become ACT MAJOR.

The optimum ONTC side is determined by examining the number of switching modules (SMs) isolated from call processing as the first criterion, interconnectivity of SMs for call processing as the second criterion, and call setup capacity as the third criterion.

First the SMs are checked, to determine which side has the most SMs available. If neither side is greater the second criterion is invoked to determine which side has the least SMs isolated from call processing. If both sides are equal the third criterion is invoked. If call setup capacity is the same on both sides no clear cut side has been established as the best; therefore the requested side is made ACT MAJOR. Otherwise, the optimal algorithm shows that the other side is better, and that side is made ACT MAJOR.

NIS = Conditionally restore only the portions of the ONTC complex that are NOT in service. If this option is not used all equipped parts of the ONTC will be restored.

MAJOR = Restore the requested ONTC side to active major.

MINOR = Restore the requested ONTC side to active minor.

UCL = Unconditionally restore the specified ONTC. No diagnostics are performed.

a = ONTC side (0 or 1).

b = Foundation peripheral controller (FPC) side (0 or 1) to be used as a 'helper' unit for the diagnostic.
The FPC is used to control the ONTC during the diagnostic. If this option is not input the standby FPC will be used.

4. SYSTEM RESPONSE

NG = No good. The request has been denied. The message syntax is valid, but the request could not be processed. Refer to the APP:CM-IM-REASON appendix in the Appendixes section of the Input Messages manual for a list of possible reasons for denying the request.

PF = Printout follows. An RST:ONTC output message will follow.

RL = Retry later. The request cannot be executed now because the communication module (CM) deferred maintenance queue (DMQ) is full.

5. REFERENCES

Input Message(s):
- DGN:ONTC
- RMV:ONTC

Input Appendix(es):
- APP:CM-IM-REASON

Output Message(s):
- DGN:ONTC
- RMV:ONTC
- RST:ONTC
RST:ONTCCOM

Software Release: 5E14 and later
Command Group: CM
Application: 5
Type: Input

1. PURPOSE

Restores office network and timing complex common (ONTCCOM) units to an in-service condition. All dual link interfaces (DLIs) or network link interfaces (NLIs) that are currently in an out-of-service (OOS) family of equipment (FE) state will also be restored.

Refer to MCC Display Page 12.09 for additional information.

2. FORMAT

RST:ONTCCOM=a[{,UCL~|~:HELPER=b}][c];

3. EXPLANATION OF MESSAGE

UCL = Unconditionally restores the specified ONTCCOM. No diagnostics are performed.

a = ONTC common side. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

b = Specifies the foundation peripheral controller (FPC) side to be used as a 'helper' unit for the diagnostic. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual. The FPC is used to control the ONTC during the diagnostic. If this option is not input the standby FPC will be used.

This option is not applicable in communication module 3 (CM3) office.

c = ONTC common side restore status.

If the MAJOR or MINOR option is not specified, the optimum side of the ONTCCOM will become ACT MAJOR.

The optimum ONTCCOM side is determined by examining the number of SMs isolated from call processing as the first criterion, interconnectability of SMs for call processing as the second criterion, and call setup capacity as the third criterion. First the SMs are checked, to determine which side has the most SMs available. If neither side is greater the second criterion is invoked to determine which side has the least SMs isolated from call processing. If both sides are equal the third criterion is invoked. If call setup capacity is the same on both sides no clear cut side has been established as the best; therefore the requested side is made ACT MAJOR. Otherwise, the optimal algorithm shows that the other side is better, and that side is made ACT MAJOR.

Valid value(s):

MAJOR = ONTC common side restored becomes active major.

MINOR = ONTC common side restored becomes active minor.

4. SYSTEM RESPONSE
NG = No good. The request has been denied. The message syntax is valid, but the request could not be processed. Refer to the APP:CM-IM-REASON appendix in the Appendixes section of the Input Messages manual for a list of possible reasons for denying the request.

PF = Printout follows. An RST:ONTCCOM output message will follow.

RL = Retry later. The request cannot be executed now because the communication module (CM) deferred maintenance queue (DMQ) is full.

5. REFERENCES

Input Message(s):

DGN:ONTCCOM
OP:DMQ
RMV:ONTCCOM

Input Appendix(es):

APP:CM-IM-REASON
APP:RANGES

Output Message(s):

DGN:ONTCCOM
OP:DMQ-CM
RMV:ONTCCOM
RST:ONTCCOM

MCC Display Page(s):

ONTC
RST:OSCXC-A
Software Release: 5E14 only
Command Group: CM
Application: 5
Type: Input

1. PURPOSE
Restores the network clock 2 oscillator cross-couple output (OSCXC) to service. There are no diagnostics run on the OSCXC unit.

Note: The OSCXC provides the signal from a network clock oscillator (NCOSC) to the opposite network clock side. Therefore, the state of the OSCXC is dependent on the state of the NCOSC.

2. FORMAT
RST:OSCXC=a;

3. EXPLANATION OF MESSAGE

a = Network clock side (0 or 1).

4. SYSTEM RESPONSE

NG = No good. The message syntax is valid, but the request conflicts with the current system or equipment status.

OK = The request was accepted and completed.

PF = Printout follows. An RST:OSCXC output message will follow in response to the request.

RL = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES
Input Message(s):
RMV:OSCXC

Output Message(s):
RST:OSCXC

MCC Display Page(s):
(NETWORK CLOCK)
RST:OSCXC-B
Software Release: 5E15 and later
Command Group: CM
Application: 5
Type: Input

1. PURPOSE
Restores the network clock 2 oscillator cross-couple output (OSCXC) to service. There are no diagnostics run on the OSCXC unit.

Note: The OSCXC provides the signal from a network clock oscillator (NCOSC) to the opposite network clock side. Therefore, the state of the OSCXC is dependent on the state of the NCOSC. This command is not applicable in Communication Module 3 (CM3) office.

2. FORMAT
RST:OSCXC=a;

3. EXPLANATION OF MESSAGE
   a = Network clock side (0 or 1).

4. SYSTEM RESPONSE
   NG = No good. The message syntax is valid, but the request conflicts with the current system or equipment status.
   OK = The request was accepted and completed.
   PF = Printout follows. An RST:OSCXC output message will follow in response to the request.
   RL = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES
   Input Message(s):
   RMV:OSCXC

   Output Message(s):
   RST:OSCXC

   MCC Display Page(s):
   (NETWORK CLOCK)
RST:OSPSPORT

1. PURPOSE

Requests the restoration of an operator services position system (OSPS) port (OSPSPORT) to service by deleting the specified out-of-service (OOS) status. When the last OOS status is deleted, the OSPSPORT is restored to service.

Up to four independent OOS conditions can exist simultaneously on an OSPSPORT. Refer to APP:PORT-STATUS in the Appendixes section of the Output Messages manual for a more detailed explanation of statuses that apply to OSPSPORTs. An OSPSPORT can be identified by its type [such as autoquote establishment (AQEST) or autoquote mate analog (AQM)] and its associated external identifier parameters or by its equipment number (LCEN, LCKEN, or TEN). If an AQEST or AQM OSPSPORT is busy when the request is made, it will be camped on for up to 20 minutes. If a camp-on is started, a REPT:CAMPON output message will be generated. The camp-on can then be terminated by a STP:CAMPON input message if desired. If an OSPSPORT other than an AQEST or AQM is busy when the request is made, the request is denied.

2. FORMAT

RST:OSPSPORT,a[,CH=b][,UCL][[:c][,d][,e][,f]];  

3. EXPLANATION OF MESSAGE

a = Port identifier. Valid value(s):

<table>
<thead>
<tr>
<th>AQEST</th>
<th>OPT</th>
</tr>
</thead>
<tbody>
<tr>
<td>g</td>
<td>j-k</td>
</tr>
<tr>
<td>h-i</td>
<td></td>
</tr>
<tr>
<td>j-k</td>
<td></td>
</tr>
<tr>
<td>l-m-n-o</td>
<td>l-q-r-s-t</td>
</tr>
<tr>
<td>l-m-u-v-w</td>
<td></td>
</tr>
</tbody>
</table>

b = Channel identifier [D (default), B1, or B2]. Used only for digital subscriber line (DSL) OSPSPORTs. Ignored if the item identified is not a DSL.

If this option is not specified or if the D-channel is specified, an attempt will be made to restore the D-channel and all on-demand service B-channels, but permanent packet B-channels will not be restored. If a B-channel is specified, only that B-channel will be restored to service.

The channel identifier is ignored for Operator Services Position System (OSPS) digital subscriber lines (DSLs) serving basic services terminals (BSTs) and operator position terminals (OPTs). For BST and OPT DSLs, the entire DSL will be restored to service even if only the D-channel or a B-channel is specified in the input request.

Port status, which indicates the restriction to be deleted from the OSPSPORT. Status subfields are always separated by a single comma, even if the statuses in-between are omitted (as in OOS, DSBLD).

c = Basic state. Valid value(s):

<table>
<thead>
<tr>
<th>ALL</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>If entered, no other status fields need be specified and all existing status information (primary and pending) will be removed for the specified line(s). This will</td>
</tr>
</tbody>
</table>
result in the line(s) being placed in service (IS). Care should be exercised when using this option because restoring lines that are OOS, MTCE, FE, or FAF could result in undesired effects (that is, PORTLA audit failures, and so forth).

OOS
  = Out-of-service (default).

d  = Qualifier (choose one or omit). Valid value(s):
  BLKD  = Blocked.
  CADN  = Circuit administration.
  CUTOVER  = Cutover (pre-cut) inactive state.
  DSLINIT  = DSL initialization.
  MKBUSY  = Make busy.
  MTCE  = Maintenance (default).
  PPSRV  = Pre-post service.
  TMT  = Traffic management.

e  = Operational restriction (choose one or omit). Valid value(s):
  DSBLD  = Disabled (default).
  DCHOOS  = D-channel is out of service.
  HW  = High and wet.
  LVL1ERR  = Level 1 protocol error.
  LVL2ERR  = Level 2 protocol error.
  LVL3ERR  = Level 3 protocol error.
  PLGUP  = Plug-up (currently no affect).
  PX  = Power cross.
  RAP  = Recorded announcement port.
  Note: If the entire port status is omitted, the status will default to OOS, MTCE, and DSBLD. If a status sub-field is entered without entering the previous sub-field, the default values indicated will be assumed.

f  = Supplementary information (choose one or omit). This field is used to record the reason for removal. Valid value(s):
  AML  = Automatic maintenance limit.
  AQ  = Autoquote problem.
  AUDIT  = Audit detected problem.
  CAROT  = Centralized automatic reporting on trunks.
  CDI  = Control and data interface.
  CKT  = Circuit.
  CTTU  = Central trunk testing unit.
  DFI  = Digital facility interface.
  DLNORSP  = Directory assistance system computer (DAS/C) link no response.
  DYGSPUS  = Dying gasp under study.
  FORPOT  = Foreign potential.
  GRD  = Ground fault.
  IAA  = Ineffective attempt analysis.
  ISLU  = Integrated services line unit.
  L2DOWN  = Level 2 is inoperable.
  L2QLTY  = Poor level 2 transmission quality.
  LINK1  = The basic rate interface transmission extension (BRITE) link one is down.
LINK2 = The BRITE link two is down.
LINK3 = The BRITE link three is down.
LINK4 = The BRITE link four is down.
LINK5 = The BRITE link five is down.
LINK6 = The BRITE link six is down.
MPOOS = Modern pool line out of service.
MSMTCH = Mismatch.
MTCECH = Maintenance channel.
NR = No response.
NRT = No response while in test mode.
NTDACT = Network termination (NT) is deactivated.
NTOFN = NT off normal.
NTPWR = NT lost power.
OPNOXL3 = OSPS position no level 3 protocol 3.
PCTF = Per-call test failure.
POSNOB = OSPS position no B-channel.
POSNRSP = OSPS position no response.
PPM = Periodic pulse metering.
PSU = Packet switch unit.
REX = Routine exercise.
RO = Routine other.
ROTF = Operational trouble.
SCC = Switching Control Center.
SPARED = Line involved in an integrated services line unit (ISLU) sparing configuration.
STKSCH = Suspected stuck scan (STKSCN) lead on the line group controller (LGC) or the line card (LC).
SWEQF = Switch equipment failure.
TEST = In test mode.
TEST1 = Testing in progress at the NT or BRITE channel unit (CU) and the BRITE link one is down.
TEST2 = Testing in progress at the NT or BRITE CU and the BRITE link two is down.
TEST3 = Testing in progress at the NT or BRITE CU and the BRITE link three is down.
TEST4 = Testing in progress at the NT or BRITE CU and the BRITE link four is down.
TEST5 = Testing in progress at the NT or BRITE CU and the BRITE link five is down.
TEST6 = Testing in progress at the NT or BRITE CU and the BRITE link six is down.
TICOM = Treated interface common circuit.
TINF = The T interface is down.
TRBL = Unspecified trouble.
TRBLORG = Origination trouble.
TREQF = Transmission equipment failure.
TRKBD = Trunk board.
TRKCT = Trunk circuit.
UINTF = The ANSI® Standard U interface is down.

g = Telephone number.

h = Data link (group) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

i = Relative link (member) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
4. SYSTEM RESPONSE

PF = Printout follows. The request has been accepted and is followed by a RST:OSPSPORT output message.

RL = Retry later. The request has been denied, most likely due to system load.

5. REFERENCES

Input Message(s):

OP:STATUS
RMV: OSPSPORT
STP: CAMPON

Output Message(s):
REPT: CAMPON
RST: OSPSPORT

Input Appendix(es):
APP: RANGES
RST:PAG

**Software Release**: 5E16(1) and later  
**Command Group**: SM  
**Application**: 5  
**Type**: Input

1. **PURPOSE**

Restores call processing on a network interface on a packet access gateway (PAG).

2. **FORMAT**

```plaintext
RST:PAG=a-b,~NETINTF=c;
```

3. **EXPLANATION OF MESSAGE**

a = Switch module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

b = PAG component number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

c = Network interface number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. **SYSTEM RESPONSE**

**NG** = No good. The message form is valid, but the request conflicts with the current status.

**PF** = Printout follows. Followed by the RST:PAG output message.

**RL** = Retry later. The request cannot be executed now due to unavailable system resources.

5. **REFERENCES**

**Input Message(s):**

- RMV:PAG
- STP:PAG

**Output Message(s):**

- RST:PAG

**Input Appendix(es):**

- APP:RANGES

**Other Manual(s):**

- 235-105-110 System Maintenance Requirements and Tools
- 235-105-220 Corrective Maintenance
RST:PCTDX

Software Release: 5E14 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE
Requests that a peripheral control and timing data exchanger (PCTDX) be restored to service.

2. FORMAT
RST:PCTDX=a-b-c[,UCL];

3. EXPLANATION OF MESSAGE

UCL    = unconditionally execute the restore.

a      = Switch Module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

b      = Peripheral control and timing data exchanger unit (PDXU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

c      = Peripheral control and timing data exchanger (PCTDX) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

NG      = No good. The request has been denied. The message is valid but the request conflicts with current status.

PF      = Printout follows. Followed by the RST:PCTDX output message.

RL      = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

Input Message(s):

ABT:PCTDX
STP:PCTDX
RMV:PCTDX

Output Message(s):

RST:PCTDX

Input Appendix(es):

APP:RANGES
Other Manual(s):
235-105-110  System Maintenance Requirements and Tools
235-105-220  Corrective Maintenance

MCC Display Page(s):
  1330,y (PDXU)
RST:PERF

Software Release: 5E14 and later
Command Group: SYSRCVY
Application: 5
Type: Input

1. PURPOSE

Requests an unconditional restoration of the OOS common controller for each offline pumpable peripheral after a peripheral offline pump has been performed on one or more switching modules (SMs). The request will duplex the peripheral to an active/stand-by state. This input message can be issued prior to a generic retrofit SM switch to back out of the peripheral offline pump or after the generic retrofit SM switch to commit the peripherals.

2. FORMAT

RST:PERF,SM=a[&b];

3. EXPLANATION OF MESSAGE

a = SM number, or the lower limit of a range of SM numbers.

b = Upper limit of the range of SM numbers.

4. SYSTEM RESPONSE

NG = No good. The request cannot be executed now due to unavailable system resources.

PF = Printout follows. The request was accepted. Output message REPT:RST-PERF follows.

RL = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

Output Message(s):

REPT:RST-PERF
RST:PLTLK

Software Release: 5E15 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Requests that a PCT (Peripheral Control and Timing) line and trunk unit link (PLTLK) be restored to service. If the PLTLK is restored conditionally, the diagnostic runs and all tests must pass before service is restored to the link. If the PLTLK is restored unconditionally, no testing is performed.

2. FORMAT

RST:PLTLK=a-b-c-d[,UCL][,STBY][,ALL];

3. EXPLANATION OF MESSAGE

a = Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

b = PLTU (PCT Line and Trunk Unit) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

c = PCT Facility Interface number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

d = PCT Facility Interface side number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

UCL = Restore unconditionally without diagnostics.

STBY = Restore the unit to the standby state. If the mate PLTLK is active, this option is required.

ALL = All subtending tributaries will be restored.

4. SYSTEM RESPONSE

NG = No good. Valid values are:
- REASON FOR NG = The message form is valid, but the request conflicts with current status.

PF = Printout follows. A RST PLTLK output message follows.

RL = Retry later. The request cannot be executed now due to unavailable system resource.

5. REFERENCES

Input Message(s):

ABT:PLTLK
DGN:PLTLK
STP: PLTLK
RMV: PLTLK
SW: PLTLK

Output Message(s):
RST: PLTLK

Input Appendix(es):
APP: RANGES

Other Manual(s):
235-105-110 System Maintenance Requirements and Tools
235-105-220 Corrective Maintenance

MCC Display Page(s):
1430 (PLTU Status page)
RST:PMU

Software Release: 5E14 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE
Requests a single precision measurement unit (PMU) circuit be conditionally or unconditionally restored to service.

2. FORMAT
RST:PMU=a-b-c[,UCL];

3. EXPLANATION OF MESSAGE
If restored conditionally, the diagnostic will be run. All tests must pass before the unit will be restored to service. If restored unconditionally, no testing is performed.

UCL = Restore the PMU unconditionally without diagnosis.

a = Switching module number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

b = Directly connected test unit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

c = Circuit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE
PF = Printout follows. Followed by RST:PMU output message.

5. REFERENCES
Output Message(s):
   RST:PMU

Input Appendix(es):
   APP:RANGES
RST:PPC

Software Release: 5E14 and later
Command Group: CM
Application: 5
Type: Input

1. PURPOSE

Restores the specified pump peripheral controller (PPC) to service.

The message switch control unit must be in service before the PPC can be restored.

Note: For conditional restores, if the unit is not OOS, the system will first remove the unit conditionally.

2. FORMAT

RST:PPC=a[,UCL][,STBY];

3. EXPLANATION OF MESSAGE

STBY = Restores the PPC to the standby state.

UCL = Unconditionally restores. No diagnostics are performed.

Note: For offices having CM3 vintage communications modules, the restore will always be run unconditionally, with or without the UCL parameter.

a = PPC number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

NG = The message was invalid.

PF = Followed by an RST:PPC output message.

5. REFERENCES

Output Message(s):

DGN:PPC
RST:PPC

Input Appendix(es):

APP:RANGES
RST:PPPLK

Software Release: 5E16(2) and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE
Requests that an optical interface unit (OIU) point to point protocol link (PPPLK) be restored to service.

2. FORMAT
RST:PPPLK=a-b-c-d-e[,UCL];

3. EXPLANATION OF MESSAGE

UCL = Restores without first conditionally removing the PPPLK.

a = Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

b = OIU number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

c = Protection group (PG) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

d = Optical carrier - level 3 concatenated (OC3C) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

e = Synchronous transport signal - level 3 concatenated (STS3C) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

NG = No good. The message form is valid, but the request conflicts with current status.

PF = Printout follows. Followed by the RST:PPPLK output message.

RL = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

Input Message(s):

ABT:PPPLK
STP:PPPLK

Output Message(s):

RST:PPPLK
Input Appendix(es):

APP : RANGES

Other Manual(s):
235-105-110  System Maintenance Requirements and Tools
235-105-220  Corrective Maintenance

MCC Display Page(s):
1494        OIU PKT STATUS
RST:PROTO

Software Release: 5E14 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Restores the protocol (PROTO) circuit to the active state conditionally or unconditionally. If restored conditionally, the diagnostic will be run. All tests must pass before the unit will be restored to service. If restored unconditionally, no testing is performed.

2. FORMAT

RST:PROTO=a-b-c[,UCL];

3. EXPLANATION OF MESSAGE

UCL = Unconditionally restores without diagnostics.

a = Switching module number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

b = Unit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

c = Service group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

PF = The request was accepted. Followed by an RST:PROTO output message.

5. REFERENCES

Output Message(s):

  RST:PROTO

Input Appendix(es):

  APP:RANGES
RST:PSUCOM-A

Software Release: 5E14 - 5E15
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Requests that a packet switch unit common controller (PSUCOM) be restored to service.

2. FORMAT

RST:PSUCOM=a-b-c[,ACT|,STBY][,UCL];

3. EXPLANATION OF MESSAGE

ACT = Restore the unit to the active state (default).
STBY = Restore the unit to the standby state.
UCL = Unconditionally restore without diagnostics.
a = Switching module (SM) number.
b = Packet switch unit (PSU) number (0).
c = Service group number (0 or 1).

4. SYSTEM RESPONSE

NG = No good. The message form is valid, but the request conflicts with current status.
PF = Printout follows. An RST:PSU output message will follow.
RL = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

Output Message(s):

RST:PSU

MCC Display Page(s):

118x (PSU SHELF)
1186 (PSU NETWORK)
RST:PSUCOM-B

Software Release: 5E16(1) and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Requests that a packet switch unit common controller (PSUCOM) be restored to service.

2. FORMAT

RST:PSUCOM=a-b-c[,ACT|,STBY][,UCL];

3. EXPLANATION OF MESSAGE

ACT = Restore the unit to the active state (default).
STBY = Restore the unit to the standby state.
UCL = Unconditionally restore without diagnostics.
a = Switching module (SM) number.
b = Packet switch unit (PSU) number.
c = Service group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

NG = No good. The message form is valid, but the request conflicts with current status.
PF = Printout follows. An RST:PSU output message will follow.
RL = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

Output Message(s):

RST:PSU

Input Appendix(es):

APP:RANGES

MCC Display Page(s):

PSU SHELF (where y=PSU number)
PSU NETWORK (where y=PSU number)
RST:PSUPH-A

**Software Release:** 5E14 - 5E15  
**Command Group:** SM  
**Application:** 5  
**Type:** Input

1. **PURPOSE**

Requests that a packet switch unit (PSU) protocol handler (PH) be restored to service.

2. **FORMAT**

    RST:PSUPH=a-b-c-d[,GRP=e][,STBY][,UCL];

3. **EXPLANATION OF MESSAGE**

    - **STBY** = Restore the PH to the standby state.
    - **UCL** = Unconditionally restore without diagnostics.
    - **a** = Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
    - **b** = PSU number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
    - **c** = Shelf number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
    - **d** = Protocol handler number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
    - **e** = Channel group number to be assigned to the PH upon restoration. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

    **Note:** The group option request will only be honored if the channel group number specified is an unassigned channel group or an assigned channel group provided there are no other unassigned or degraded channel groups on the shelf.

4. **SYSTEM RESPONSE**

    - **NG** = No good. The message form is valid, but the request conflicts with current status.
    - **PF** = Printout follows. A RST:PSU output message will follow.
    - **RL** = Retry later. The request cannot be executed now due to unavailable system resources.

5. **REFERENCES**

**Output Message(s):**

    RST:PSU
Input Appendix(es):

APP : RANGES

MCC Display Page(s):

118x (PSU SHELF)
1186 (PSU NETWORK)
1. PURPOSE
Requests that a packet switch unit (PSU) protocol handler (PH) be restored to service.

2. FORMAT
RST:PSUPH=a-b-c-d[,GRP=e][,STBY][,UCL];

3. EXPLANATION OF MESSAGE
STBY = Restore the PH to the standby state.
UCL = Unconditionally restore without diagnostics.
a = Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
b = PSU number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
c = Shelf number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
d = Protocol handler number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
e = Channel group number to be assigned to the PH upon restoration. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

Note: The group option request will only be honored if the channel group number specified is an unassigned channel group or an assigned channel group provided there are no other unassigned or degraded channel groups on the shelf.

4. SYSTEM RESPONSE
NG = No good. The message form is valid, but the request conflicts with current status.
PF = Printout follows. A RST:PSU output message will follow.
RL = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES
Output Message(s):
RST:PSU
Input Appendix(es):

APP : RANGES

MCC Display Page(s):

PSU SHELF (where y=PSU number)
PSU NETWORK (where y=PSU number)
**RST:PSUPIDB**

**Software Release:** 5E14 and later  
**Command Group:** SM  
**Application:** 5  
**Type:** Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. **PURPOSE**

Requests that a packet switch unit (PSU) shelf peripheral interface data bus (PIDB) pair be restored to service. The purpose of this input message is to put all PSU PIDB time slot blocks in the idle list.

**WARNING:** This input message should only be used when a PSU PIDB is removed falsely during the PSU PIDB degrowth or when an additional PIDB is being grown.

2. **FORMAT**

\[ \text{RST:PSUPIDB=a-b-c-d;} \]

3. **EXPLANATION OF MESSAGE**

- \(a\) = Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
- \(b\) = PSU number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
- \(c\) = Shelf number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
- \(d\) = PIDB number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. **SYSTEM RESPONSE**

- **NG** = No good. The message form is valid, but the request conflicts with current status.
- **PF** = Printout follows. The RST:PSUPIDB output message will follow.
- **RL** = Retry later. The request cannot be executed now due to unavailable system resources.

5. **REFERENCES**

Output Message(s):

- RST:PSUPIDB

Input Appendix(es):
RST:QGL

Software Release: 5E14 and later
Command Group: CM
Application: 5
Type: Input

1. PURPOSE
Requests an unconditional restore of a quad-link packet switch (QLPS) gateway processor link (QGL).

Note: Automatic QLPS network switches may occur if the QGL restoration improves QLPS connectivity.

2. FORMAT
RST:QGL=a-b-c[,UCL];

3. EXPLANATION OF MESSAGE

UCL = Restore the QGL unconditionally to the active state. Since no diagnostic exists for a QGL, every request to restore a QGL to service is performed unconditionally with or without the UCL option.

a = Message switch (MSGS) side number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

b = QLPS gateway processor (QGP) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

c = QGL number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

NG = No good. The request has been denied. The message syntax is valid, but the request could not be processed. Refer to the APP:CM-IM-REASON appendix in the Appendixes section of the Input Messages manual for a list of possible reasons for denying the request.

PF = Printout follows. A RST:QGL output message follows.

RL = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

Output Message(s):

RST:QGL

Input Appendix(es):

APP:CM-IM-REASON
APP:RANGES
Other Manual(s):
235-105-110  System Maintenance Requirements and Tools
235-105-220  Corrective Maintenance
235-105-250  System Recovery Procedures

MCC Display Page(s):

  1380, 1381 (QLPS NETWORK 0/1 STATUS)
RST:QGP

Software Release: 5E14 and later
Command Group: CM
Application: 5
Type: Input

1. PURPOSE

Request a conditional or unconditional restore of a quad-link packet switch (QLPS) gateway processor (QGP) to the active state. The request restores all the children circuits, QLPS gateway processor links (QGLs).

Note: As part of the QGP reconfiguration, switching of the QLPS may occur.

Note: If the QGP is already in service, this message may be used with the unconditional (UCL) option to restore all related OOS QGLs/QGP QPIPEs.

Note: For conditional restores, if the unit is not OOS, the system will first remove the unit conditionally.

2. FORMAT

RST:QGP=a-b[,UCL];

3. EXPLANATION OF MESSAGE

UCL = Restore the QGP unconditionally. No diagnostics are performed. If the QGP is already in service, restore all related OOS QGLs/QGP QPIPEs to service.

Note: For offices having CM3 vintage communications modules, the restore will always be run unconditionally, with or without the UCL parameter.

a = Message switch (MSGS) side number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

b = QGP number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

NG = No good. The request has been denied. The message syntax is valid, but the request could not be processed. Refer to the APP:CM-IM-REASON appendix in the Appendixes section of the Input Messages manual for a list of possible reasons for denying the request.

PF = Printout follows. A RST:QGP output message follows.

RL = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

Input Message(s):

RST:QGL
RST:QLPS

Software Release: 5E14 and later
Command Group: CM
Application: 5
Type: Input

1. PURPOSE

Request a conditional or unconditional restore of a quad-link packet switch (QLPS) to the standby state.

Note: If the resulting QLPS configuration is not optimal, an automatic reconfiguration (switch) of the QLPS occurs.

2. FORMAT

RST:QLPS=a-b[,UCL];

3. EXPLANATION OF MESSAGE

UCL = Restore the QLPS unconditionally. No diagnostics are performed.

a = Office network and timing complex (ONT) side number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

b = QLPS network number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

NG = No good. The request has been denied. The message syntax is valid, but the request could not be processed. Refer to the APP:CM-IM-REASON appendix in the Appendixes section of the Input Messages manual for a list of possible reasons for denying the request.

PF = Printout follows. A RST:QLPS output message follows.

RL = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

Output Message(s):

DGN:QLPS
RMV:QLPS
RST:QLPS

Input Appendix(es):

APP:CM-IM-REASON
APP:RANGES
Other Manual(s):
235-105-110  System Maintenance Requirements and Tools
235-105-220  Corrective Maintenance
235-105-250  System Recovery Procedures

MCC Display Page(s):
1209 (ONT C 0 & 1)
1380,1381 (QLPS NETWORK 0/1 STATUS)
RST:QPHPIPE

Software Release: 5E15 and later
Command Group: CCS
Application: 5
Type: Input

1. PURPOSE

Requests that a quad-link packet switch protocol handler (QPH) QPIPE be restored to service.

2. FORMAT

RST:QPHPIPE=a-b-c-d-e;

3. EXPLANATION OF MESSAGE

a = Global switching module (GSM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

b = Packet switch unit (PSU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

c = PSU shelf number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

d = QPH channel group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

e = Quad-link packet switch (QLPS) network number, which is 0 or 1, or a range 0&&1 to restore QPH QPIPEs on both networks. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

PF = The request has been accepted. A RST:QPHPIPE output message will follow, specifying the results of the request.

NG - SM UNEQUIPPED = This response indicates that the input GSM (part of the QPH QPIPE specification) is not even an equipped SM.

NG - NOT A GSM = This response indicates that the input GSM (part of the QPH QPIPE specification) is not a provisioned GSM.

RL - GSM NOT AVAILABLE = This response indicates that the input GSM (part of the QPH QPIPE specification) is not available, because it is isolated or undergoing an initialization. Retry later.

5. REFERENCES

Output Message(s):

RST:QPHPIPE

Input Appendix(es):

APP:RANGES
Other Manual(s):
235-200-116  5ESS Switch Signaling Gateway Common Channel Signaling
**RST:QTMSLNK**

**Software Release:** 5E14 and later  
**Command Group:** CM  
**Application:** 5  
**Type:** Input

1. **PURPOSE**

Requests an unconditional restore of a quad-link packet switch (QLPS) time multiplexed switch link (QTMSLNK) to the active state.

Note: Automatic QLPS network switches may occur if the QTMSLNK restoration improves QLPS connectivity.

2. **FORMAT**

```
RST:QTMSLNK=a-b-c[,UCL];
```

3. **EXPLANATION OF MESSAGE**

**UCL** = Restore the QTMSLNK unconditionally to the active state. Since no diagnostic exists for a QTMSLNK, every request to restore a QTMSLNK to service is performed unconditionally with or without the UCL option.

**a** = Office network and timing complex (ONTC) side number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

**b** = QLPS network number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

**c** = QTMSLNK number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. **SYSTEM RESPONSE**

**NG** = No good. The request has been denied. The message syntax is valid, but the request could not be processed. Refer to the APP:CM-IM-REASON appendix in the Appendixes section of the Input Messages manual for a list of possible reasons for denying the request.

**PF** = Printout follows. A RST:QTMSLNK output message follows.

**RL** = Retry later. The request cannot be executed now due to unavailable system resources.

5. **REFERENCES**

**Output Message(s):**

RST:QTMSLNK

**Input Appendix(es):**
Other Manual(s):
235-105-110  System Maintenance Requirements and Tools
235-105-220  Corrective Maintenance
235-105-250  System Recovery Procedures

MCC Display Page(s):
1380,1381 (QLPS NETWORK 0/1 STATUS)
RST:RAF

Software Release: 5E14 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Conditionally or unconditionally restores a recorded announcement function (RAF) unit to service. If restored conditionally, the diagnostic will be run. All tests must pass before the unit will be restored to service. If restored unconditionally, no testing is performed.

2. FORMAT

RST:RAF=a-b [,UCL];

3. EXPLANATION OF MESSAGE

UCL = Unconditionally restores without diagnostics.

a = Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

b = RAF unit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

NG = No good. The request has been denied because it conflicts with current equipment status. May also include:
- SM DOES NOT EXIST = The requested SM does not exist in the system.
- SM UNEQUIPPED = The SM specified in the request is unequipped.
- UNIT DOES NOT EXIST = The requested unit does not exist in the system.

PF = Printout follows. The request has been accepted. Followed by an RST:RAF output message.

RL = Retry later. The request cannot be executed now due to unavailable system resources. The message may be entered again later.

5. REFERENCES

Output Message(s):

RST:RAF

Input Appendix(es):

APP: RANGES
RST:RAU

Software Release: 5E14 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Restores a remote switching module (RSM) alarm (RAU) circuit to service.

2. FORMAT

RST:RAU=a [,UCL];

3. EXPLANATION OF MESSAGE

UCL = Unconditionally restore the circuit. If circuit is out of service, it is returned to service without diagnostic testing. If circuit is in service, it is removed unconditionally. It is then returned to service without diagnostic testing.

a = Switching module number.

4. SYSTEM RESPONSE

NG = Request denied because of a conflict with current status.

PF = Followed by the RST:RAU output message.

5. REFERENCES

Input Message(s):

RMV:RAU

Output Message(s):

RST:RAU
RST:RCL

Software Release: 5E14 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Requests that a remote communication link (RCL) between inter-remote switching module (RSM) communication link digital facilities interface (CDFI) circuits be restored to service.

2. FORMAT

RST:RCL=a-b-c-d[,UCL];

3. EXPLANATION OF MESSAGE

UCL = Restore the communication link unconditionally without connectivity exercise testing. The link will not be restored if there is a carrier group alarm on the CDFI.

a = Switching module (SM) number.

b = Digital line and trunk unit (DLTU) number, (0-5).

c = CDFI number, (1 - 10).

d = Facility (FAC) number, (0, 1). The FAC number is the T1 facility number on a CDFI.

4. SYSTEM RESPONSE

NG = No good. The message syntax is valid, but the request conflicts with current system or equipment status. May also include:
     - NOT STARTED UNIT IN GROWTH STATE
     - SM DOES NOT EXIST
     - SM UNEQUIPPED
     - UNIT DOES NOT EXIST

PF = Printout follows. A RST:RCL output message will follow.

RL = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

Input Message(s):

RMV:RCL

Output Message(s):

RST:RCL
Other Manual(s):
235-105-220  Corrective Maintenance
RST:RCLK

Software Release: 5E14 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Requests that the specified remote clock (RCLK) circuit be restored to service. This message will also restore both the remote clock cross couples (RCXCs) and also all the equipped remote clock references (RCREFs).

2. FORMAT

RST:RCLK=a-b[,UCL] [,STBY];

3. EXPLANATION OF MESSAGE

STBY = Restore to standby state. Active state is the default state.
UCL = Unconditionally execute.
a = Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
b = RCLK side. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

NG = No good. May also include:
- NOT STARTED UNIT IN GROWTH STATE
- SM DOES NOT EXIST
- SM UNEQUIPPED
- UNIT DOES NOT EXIST

PF = Printout follows. A RST:RCLK output message follows in response to the request.

RL = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

Output Message(s):

RST:RCLK

Input Appendix(es):

APP: RANGES

MCC Display Page(s):
RST:RCOSC
Software Release: 5E14 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Requests that a specified remote clock oscillator (RCOSC) be restored to service. Depending upon the state of the RCLK, the oscillator may be restored as active or standby. This message will also restore the associated remote clock oscillator cross couple (RCOXC).

Note: Under normal conditions an oscillator may only be restored to service if it has been powered up for a minimum of one hour for a medium stability oscillator or 16 hours for a high stability oscillator.

2. FORMAT

RST:RCOSC=a-b [,STBY][,UCL];

3. EXPLANATION OF MESSAGE

STBY = Restore to standby state (default is active).
UCL = Execute unconditionally.
a = Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
b = RCOSC side. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

NG = No good. May also include:
- NOT STARTED UNIT IN GROWTH STATE
- SM DOES NOT EXIST
- SM UNEQUIPPED
- UNIT DOES NOT EXIST
PF = Printout follows. A RST:RCOSC output message follows in response to the request.
RL = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

Input Message(s):
RMV:RCOSC
Output Message(s):
- REPT: RCLK-RWP
- RST: RCOSC
- RST: RCOXC

Input Appendix(es):
- APP: RANGES

MCC Display Page(s):
- 1170 (RSM RCLK)
RST:RCoXC
  Software Release: 5E14 and later
  Command Group: SM
  Application: 5
  Type: Input

1. PURPOSE

Requests that a specified remote clock oscillator cross couple (RCoXC) be restored to service.

2. FORMAT

RST:RCoXC=a-b [,STBY][,UCL];

3. EXPLANATION OF MESSAGE

  STBY    = Restore to standby state. Active state is the default state.
  UCL     = Execute unconditionally.
  a       = Switching module (SM) number.
  b       = RCoXC side. Refer to the APP:RANGES appendix in the Appendixes section of the Input
           Messages manual.

4. SYSTEM RESPONSE

  NG      = No good. May also include:
            - NOT STARTED UNIT IN GROWTH STATE
            - SM DOES NOT EXIST
            - SM UNEQUIPPED
            - UNIT DOES NOT EXIST

  PF      = Printout follows. A RST:RCoXC output message follows in response to the request.

  RL      = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

Input Message(s):

  ALW:HDW-RCOSC
  ALW:HDW-RCoXC
  RMV:RCOSC
  RMV:RCoXC
  RST:RCOSC

Output Message(s):

  RST:RCOSC
RST: RCOXC

Input Appendix(es):
APP : RANGES

MCC Display Page(s):
1170 (RSM RCLK)
RST:RCREF

Software Release: 5E14 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Requests that a specified remote clock reference (RCREF) be restored to service. There are no diagnostics run on RCREF units.

2. FORMAT

RST:RCREF=a-b [,STBY][,UCL];

3. EXPLANATION OF MESSAGE

STBY = Restore to standby state
UCL = Execute unconditionally
a = Switching module (SM) number
b = RCREF to be restored. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

NG = No good. May also include:
- NOT STARTED UNIT IN GROWTH STATE
- SM DOES NOT EXIST
- SM UNEQUIPPED
- UNIT DOES NOT EXIST

PF = Printout follows. A RST:RCREF output message follows in response to the request.

RL = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

Input Message(s):

RMV:RCREF

Output Message(s):

RST:RCREF

Input Appendix(es):
APP: RANGES

MCC Display Page(s):

1170 (RSM RCLK)
**RST:RCXC**

**Software Release:** 5E14 and later  
**Command Group:** SM  
**Application:** 5  
**Type:** Input

### 1. PURPOSE

Requests that a specified remote clock cross couple (RCXC) be restored to service. This requires both the remote clocks (RCLKs) to be in service.

### 2. FORMAT

```
RST:RCXC=a-b[,UCL];
```

### 3. EXPLANATION OF MESSAGE

- **UCL** = Execute unconditionally.
- **a** = Switching module (SM) number.
- **b** = RCXC side. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

### 4. SYSTEM RESPONSE

- **NG** = No good. May also include:
  - NOT STARTED UNIT IN GROWTH STATE
  - SM DOES NOT EXIST
  - SM UNEQUIPPED
  - UNIT DOES NOT EXIST
- **PF** = Printout follows. A RST:RCXC output message follows in response to the request.
- **RL** = Retry later. The request cannot be executed now due to unavailable system resources.

### 5. REFERENCES

**Input Message(s):**

- RMV:RCXC
- RST:RCLK

**Output Message(s):**

- RST:RCXC

**MCC Display Page(s):**
1170 (RSM RCLK)
RST:RDFI

Software Release: 5E14 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE
Restores a remote switching module (RSM) digital facilities interface (RDFI) circuit to service.

2. FORMAT
RST:RDFI=a-b-c[,UCL];

3. EXPLANATION OF MESSAGE

UCL = Unconditionally restore the circuit. If the circuit is out of service, it is returned to service without diagnostic testing. If the circuit is in service, it is removed unconditionally, which will disconnect stable inter-module calls. It is then returned to service without diagnostic testing.

a = Switching module number.

b = Digital line and trunk unit (DLTU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

c = RDFI number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

NG = No good. Request denied because of a conflict with current status.

PF = Print follows. Followed by the RST:RDFI output message.

5. REFERENCES

Input Message(s):

RMV:RDFI

Output Message(s):

RST:RDFI

Input Appendix(es):

APP:RANGES
RST:RLI

**Software Release:** 5E14 and later  
**Command Group:** SM  
**Application:** 5  
**Type:** Input

1. **PURPOSE**

Restores a remote switching module (RSM) remote link interface (RLI) circuit to service and makes it active or standby.

2. **FORMAT**

```
RST:RLI=a-b[,UCL][,STBY];
```

3. **EXPLANATION OF MESSAGE**

- **STBY** = Restore the circuit to standby operation.
- **UCL** = Unconditionally restore the circuit. If the circuit is out of service, it is returned to service and made active without diagnostic testing. If the circuit is in service, it is removed unconditionally, which will disconnect stable inter-module calls if the circuit is active. It is then returned to service and made active without diagnostic testing.
- **a** = Switching module number.
- **b** = RLI number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. **SYSTEM RESPONSE**

- **NG** = No good. Request denied because of a conflict with current status.
- **PF** = Print follows. Followed by the RST:RLI output message.

5. **REFERENCES**

**Input Message(s):**

```
RMV:RLI
```

**Output Message(s):**

```
RST:RLI
```

**Input Appendix(es):**

```
APP:RANGES
```
RST:ROP

**Software Release:** 5E14 and later  
**Command Group:** AM  
**Application:** 5,3B  
**Type:** Input

1. PURPOSE

Restores the specified receive-only printer (ROP) to service.

Note: The input/output processor (IOP) and maintenance teletypewriter controller (MTTYC) must be in service before the ROP can be restored.

2. FORMAT

RST:ROP=a;

3. EXPLANATION OF MESSAGE

a = Member number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

PF = Printout follows. Followed by RST:ROP output message.

5. REFERENCES

Input Message(s):

DGN:IOP  
DGN:MTTYC  
RMV:IOP  
RMV:MTTYC  
RST:IOP  
RST:MTTYC

Output Message(s):

DGN:IOP  
DGN:MTTYC  
RMV:IOP  
RMV:MTTYC  
RMV:ROP  
RST:IOP  
RST:MTTYC  
RST:ROP

Other Manual(s):
Corrective Maintenance

MCC Display Page(s):

(COMMON PROCESSOR DISPLAY)
RST:RPCN

Software Release: 5E14 and later  
Command Group: CCS  
Application: 5  
Type: Input

1. PURPOSE

Requests that the specified ring peripheral controller node (RPCN) be restored to service.

The RPCN is first removed from service following the rules for RMV:RPCN input message. The RPCN is next diagnosed following the rules for the DGN:RPCN input message (all automatic phases are executed). The final action depends on the RPCN major state and diagnostic results as follows:

1 = If the RPCN major state is out of service (OOS) and the diagnostic results are all tests passed (ATP) or conditional all tests passed (CATP), an attempt is made to include the RPCN into the active ring. If the inclusion fails, the restoration is stopped. If the inclusion succeeds, and both the ring interface unit (RI) minor state and the node processor (NP) minor state are usable (USBL), the RPCN is restored to service (pumped with operational code, placed into execution, and its major state changed to ACT). Otherwise the restoration is stopped.

2 = If the RPCN major state is OOS but the diagnostic results are no tests run (NTR), abort (ABT), or some tests failed (STF), the restoration is stopped.

3 = If the RPCN major state is not OOS, the restoration is stopped.

2. FORMAT

RST:RPCNa=0[[:RAW[:TLP]]|[,UCL]];

3. EXPLANATION OF MESSAGE

RAW = Print the diagnostic results of every phase. The default is to print the results of the first five failures of each failing phase.

TLP = Execute the trouble locating procedure (TLP) at the conclusion of the diagnostic. The TLP generates a list of suspected faulty equipment.

UCL = Restore the node unconditionally. The default is a conditional restoration.

Note: The UCL parameter should not be used with any other parameter. If it is used with another parameter then the other parameter will be ignored.

a = Ring node (RN) group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

PF = Printout follows.

The system action is different for conditional and unconditional restoration requests.
5. REFERENCES

Input Message(s):

DGN: RPCN
RMV: RPCN
CFR: RING

Output Message(s):

ANALY: TLPFILE
DGN: RPCN
RMV: RPCN
RST: RPCN

Other Manual(s):
235-105-220 Corrective Maintenance
235-190-120 Common Channel Signaling Service Features

MCC Display Page(s):

118 (CNI FRAME AND CCS LINK STATUS)
RST:RRCLK

Software Release: 5E14 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Requests that a remote integrated services line unit (RISLU) remote clock circuit pack (RRCLK) be restored to service. If the restoration is conditional diagnostics will be run. All tests must pass before the unit will be restored to service. If the restoration is unconditional no testing is performed.

2. FORMAT

RST:RRCLK=a-b-c[,STBY][,UCL][SCREEN=d];

3. EXPLANATION OF MESSAGE

STBY = Restore the circuit to the standby state. If this state is not specified the circuit will be restored to the active state.

UCL = Restores the RISLU unconditionally without diagnostics.

a = Switching module (SM) number.

b = RISLU number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

c = RRCLK side. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

d = Although this option is syntactically correct, it is set internally for cross checking purposes and values entered here will be ignored.

4. SYSTEM RESPONSE

NG = No good.
- CONFLICT WITH UNIT STATE
- SM DOES NOT EXIST
- SM UNEQUIPPED
- UNIT DOES NOT EXIST

PF = Printout follows. An RST:RRCLK output message follows in response to the request.

RL = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

Input Message(s):

RMV:RRCLK
Output Message(s):

RMV : RRCLK

MCC Display Page(s):

145y,x (RISLU DLTU)
RST:RT-EOC

Software Release: 5E14 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Requests that a remote terminal (RT) embedded operations channel (EOC) circuit be restored to service. This message is applicable for TR303 RTs (that is, Series 5 RTs running feature package 303G) terminating on an integrated digital carrier unit (IDCU) or a digital networking unit - synchronous optical network (DNU-S).

Requests to restore an EOC while both EOCs are in the in-service states results in the EOC being removed from and restored into service.

2. FORMAT

RST:RT,EOC=a-b[,STBY];

3. EXPLANATION OF MESSAGE

STBY = Restore the EOC to the standby state rather than the active state (default is the active state).

a = Site identification number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

b = EOC number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

PF = Printout follows. An RST:RT-EOC output message will follow.

NG = No good. The request has been denied. The message is valid but the request conflicts with current status.

RL = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

Input Message(s):

ABT:RT-EOC
STP:RT-EOC

Output Message(s):

RST:RT-EOC

Input Appendix(es):
APP: RANGES

Other Manual(s):
235-105-110  System Maintenance Requirements and Tools
235-105-220  Corrective Maintenance

MCC Display Page(s):

1880,x,yy (IDCU REMOTE TERMINAL)
1660,xxxx (TR303 REMOTE TERMINAL)
RST:RT-TMC
Software Release: 5E14 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE
Requests that a remote terminal (RT) timeslot management channel (TMC) circuit be restored to service. This message is applicable for TR303 RTs (that is, Series 5 RTs running feature package 303G) terminating on an integrated digital carrier unit (IDCU) or a digital networking unit - synchronous optical network (DNU-S).

Requests to restore a TMC while both TMCs are in in-service states results in the TMC being removed from and restored into service.

2. FORMAT
RST:RT,TMC=a-b[,STBY];

3. EXPLANATION OF MESSAGE
STBY = Restore the TMC to the standby state rather than the active state (default is the active state).

a = Site identification number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

b = TMC number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

PF = Printout follows. An RST:RT-TMC output message will follow.

NG = No good. The request has been denied. The message is valid but the request conflicts with current status.

RL = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES
Input Message(s):
ABT:RT-TMC
STP:RT-TMC

Output Message(s):
RST:RT-TMC

Input Appendix(es):
APP : RANGES

Other Manual(s):
235-105-110   System Maintenance Requirements and Tools
235-105-220   Corrective Maintenance

MCC Display Page(s):

1880,x,yy (IDCU REMOTE TERMINAL)
1660,xxxx (TR303 REMOTE TERMINAL)
RST:RTFAC

Software Release: 5E14 and later
Command Group: SM
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Requests that a remote terminal (RT) facility (FAC) circuit be restored to service. This message is applicable for TR303 RTs (that is, AT&T Series 5 RTs running Feature Package 303G) terminating on a digital networking unit -synchronous optical network (DNU-S). This is an alternative way to address a DS1SFAC facility.

WARNING: An unconditional restoration of an RTFAC while the RTFAC is out of service may preempt maintenance activity on the RTFAC.

2. FORMAT

RST:RTFAC=a-b;

3. EXPLANATION OF MESSAGE

a = Site identification number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

b = RTFAC number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

PF = Printout follows. An RST:RT-EOC output message will follow.

NG = No good. The request has been denied. The message is valid but the request conflicts with current status.

RL = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

Input Message(s):

ABT:RTFAC
STP:RTFAC

Output Message(s):

RST:RTFAC
Input Appendix(es):

APP : RANGES

Other Manual(s):
235-105-110  System Maintenance Requirements and Tools
235-105-220  Corrective Maintenance

MCC Display Page(s):

1511,xx  (DNU-S FACILITY MAINTENANCE)
1512,xx  (DNU-S FACILITY APPLICATION)
1660,xxxx (TR303 REMOTE TERMINAL)
1. PURPOSE
Conditionally or unconditionally restores the revertive pulsing transceiver (RVPT) to the active state.

2. FORMAT
RST:RVPT=a-b-c-d [,UCL];

3. EXPLANATION OF MESSAGE
UCL = Unconditionally execute the restoration. If restored conditionally, the diagnostic will be run. All tests must pass before the unit will be restored to service. If restored unconditionally, no testing is performed.

a = Switching module number.

b = Unit number.

c = Service group.

d = Circuit number.

4. SYSTEM RESPONSE
PF = Followed by RST:RVPT output message.

5. REFERENCES
Input Message(s):

ABT:RVPT
RMV:RVPT
STP:RVPT

Output Message(s):

RST:RVPT
RST:SAS

Software Release: 5E14 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE
Conditionally or unconditionally restores a service announcement system (SAS) unit to service. If restored conditionally, the diagnostic will be run. All tests must pass before the unit will be restored to service. If restored unconditionally, no testing is performed.

2. FORMAT
RST:SAS=a-b [,UCL];

3. EXPLANATION OF MESSAGE
   UCL = Unconditionally restores without diagnosis.
   a = Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
   b = SAS unit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE
   NG = No good. The request has been denied because it conflicts with current equipment status. May also include:
   - SM DOES NOT EXIST = The requested SM does not exist in the system.
   - SM UNEQUIPPED = The SM specified in the request is unequipped.
   - UNIT DOES NOT EXIST = The requested unit does not exist in the system.
   PF = Printout follows. The request has been accepted. Output message RST:SAS follows.
   RL = Retry later. The request cannot be executed now due to unavailable system resources. The message may be entered again later.

5. REFERENCES
Input Message(s):
   RMV:SAS

Output Message(s):
   RST:SAS
Input Appendix(es):

APP : RANGES
RST:SBUS

Software Release: 5E14 and later
Command Group: AM
Application: 5,3B
Type: Input

1. PURPOSE

Requests that a SCSI bus (SBUS) be restored to service. There is no diagnostic to be run for SCSI bus since the SCSI bus is a pseudo device (no physical entity) only.

Note: The disk file controller (DFC) must be in service before the SBUS can be restored.

2. FORMAT

RST:SBUS=a [:UCL:DATA,CONT];

3. EXPLANATION OF MESSAGE

CONT = Restores only the SBUS. Default=restores the SBUS and all associated moving head disks (MHD).

UCL = Unconditional restore.

a = Member number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

PF = Print follows. Followed by an RST:SBUS output message.

5. REFERENCES

Input Message(s):

RMV:DFC
RMV:MHD
RMV:SBUS
RST:DFC
RST:MHD

Output Message(s):

OP:MHD-MHD
RMV:DFC
RMV:MHD
RMV:SBUS
RST:DFC
RST:MHD
Input Appendix(es):

APP : RANGES

Other Manual(s):
235-105-220  Corrective Maintenance

MCC Display Page(s):

(COMMON PROCESSOR DISPLAY)
123 (DISK FILE SYSTEM ACCESS)
RST:SCAN

Software Release: 5E14 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Requests that a scan point board (SCAN) in the metallic service unit be conditionally or unconditionally restored to service.

If restored conditionally, the diagnostic will be run. All tests must pass before the unit will be restored to service. If restored unconditionally, no testing is performed.

2. FORMAT

RST:SCAN=a-b-c-d[,UCL];

3. EXPLANATION OF MESSAGE

UCL = Unconditionally restores without diagnosis.

a = Switching module (SM) number.

b = MSU number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

c = Service group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

d = Scan point board number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

PF = Printout follows. Followed by RST:SCAN output message.

5. REFERENCES

Output Message(s):

RST:SCAN

Input Appendix(es):

APP:RANGES
RST:SCC

Software Release: 5E14 and later
Command Group: AM
Application: 5,3B
Type: Input

1. PURPOSE

Restores the specified Switching Control Center (SCC) data link subdevice to service.

Note: The input/output processor (IOP) and the maintenance teletypewriter controller (MTTYC) must be in service before the SCC data link subdevice can be restored.

2. FORMAT

RST:SCC=a;

3. EXPLANATION OF MESSAGE

a = Member number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

PF = Printout follows. Followed by RST:SCC output message.

5. REFERENCES

Input Message(s):

DGN:IOP
DGN:MTTYC
RMV:IOP
RMV:MTTYC
RMV:SCC
RST:IOP
RST:MTTYC

Output Message(s):

DGN:IOP
DGN:MTTYC
RMV:IOP
RMV:MTTYC
RMV:SCC
RST:IOP
RST:MTTYC
RST:SCC
Input Appendix(es):

APP : RANGES

Other Manual(s):
235-105-220  Corrective Maintenance

MCC Display Page(s):

(COMMON PROCESSOR DISPLAY)
RST:SCSDC

Software Release: 5E14 and later
Command Group: AM
Application: 5,3B
Type: Input

1. PURPOSE

Conditionally or unconditionally restores a scanner and signal distributor controller (SCSDC) to service. If restored conditionally, an SCSDC diagnostic is run and must be all tests pass (ATP) before the unit is restored to service. If restored unconditionally, no testing is performed.

Note: The input/output processor (IOP) must be in service before the SCSDC can be restored.

2. FORMAT

RST:SCSDC=a [:UCL][,CONT] | [:RAW][:DATA[,TLP][,CONT]];

3. EXPLANATION OF MESSAGE

CONT = Includes only the specified unit (controller). Units attached to the specified unit will not be included. If the specified unit has no attached units, CONT is ignored.

RAW = Prints the diagnostic results of every phase. The default is the first five failures of each failing phase.

TLP = Executes the trouble locating procedure (TLP) to generate a list of suspected faulty equipment.
Note: The TLP and UCL parameters should not be used together, as no testing is performed on an unconditional restore.

UCL = Unconditional restoration. The default is conditional restoration.

a = Member number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

PF = Printout follows. Followed by RST:SCSDC output message.

5. REFERENCES

Input Message(s):

DGN:IOP
DGN:SCSDC
RMV:IOP
RMV:SCSDC
RST:IOP
Output Message(s):

ANALY: TLPFILE
DGN: IOP
DGN: SCSDC
RMV: IOP
RMV: SCSDC
RST: IOP
RST: SCSDC

Input Appendix(es):

APP: RANGES

Other Manual(s):
235-105-220  Corrective Maintenance
RST:SCTP

Software Release: 5E16(2) and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Requests the restoration of a stream control transmission protocol (SCTP) by endpoint or association.

Format 1 requests that the state be restored from the specified SCTP near endpoint and that attempts be made to establish all associations on that near endpoint, except for those associations that are individually in the CLOSED state.

Format 2 requests that the specified association be restored.

2. FORMAT

[1] RST:SCTP,ENDPT=a;

[2] RST:SCTP,ASSOC=b;

3. EXPLANATION OF MESSAGE

NOTE: Refer to the Acronym section of the Input Messages manual for the full expansion of acronyms shown in the format.

a = Endpoint name to be restored to service. This is a character string (<=20) that is provisioned on RC/V View 33.19 (SCTP NEAR END POINT).

b = Association number to be restored to service. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

NG = No good. The request has been denied. May also include:
   - DATABASE ERROR = Unrecoverable database error has occurred.
   - INTERNAL ERROR = Undetermined errors, possibly a software error. This response may be accompanied by an assert.
   - INVALID ASSOCIATION ID = The association number entered was not valid.
   - INVALID NEAR ENDPOINT NAME = The near endpoint name entered was not valid.

PF = Printout follows. The request has been accepted. Followed by the RST:SCTP output message.

RL = Retry later. The request has been denied. May also include:
   - AM OVERLOAD = AM is in overload.
   - SM INACCESSIBLE = SM is not available (for example, Isolation, initialization, and so forth).
   - SYSTEM ERROR = The system is probably in overload due to too many requests. The OP:JOBSTATUS input message can be used to determine if the RL was because the maximum number of jobs are active.
5. REFERENCES

Input Message(s):

OP: JOBSTATUS
OP: ST-SCTP
STP: ST-SCTP

Output Message(s):

RST: SCTP

Input Appendix(es):

APP: RANGES
RST:SDFI

Software Release: 5E14 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE
Restores either conditionally or unconditionally a SLC®96 digital facility interface (SDFI) to service.

2. FORMAT
RST:SDFI=a-b-c[,UCL];

3. EXPLANATION OF MESSAGE

UCL = Unconditionally restores without diagnostics.
a = Switching module (SM) number.
b = Digital carrier line unit (DCLU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
c = SDFI number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

NG = The request has been denied. The message form is valid, but the request conflicts with current status.
PF = The request was accepted. Followed by an RST:SDFI output message.
RL = Repeat later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

Output Message(s):

RST:SDFI

Input Appendix(es):

APP:RANGES
RST:SDL

Software Release: 5E14 and later
Command Group: AM
Application: 5,3B
Type: Input

1. PURPOSE

Restores the specified synchronous data link (SDL) subdevice to service.

Note: The input/output processor and the synchronous data link controller must be in service before the SDL subdevice can be restored.

2. FORMAT

RST:SDL=a;

3. EXPLANATION OF MESSAGE

a = Member number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

PF = Printout follows. Followed by RST:SDL output message.

5. REFERENCES

Input Message(s):

DGN:IOP
DGN:SDLC
RMV:IOP
RMV:SDL
RMV:SDLC
RST:IOP
RST:SDLC

Output Message(s):

DGN:IOP
DGN:SDLC
RMV:IOP
RMV:SDL
RMV:SDLC
RST:IOP
RST:SDL
RST:SDLC
Other Manual(s):
235-105-220  Corrective Maintenance
RST:SDLC

Software Release: 5E14 and later
Command Group: AM
Application: 5,3B
Type: Input

1. PURPOSE

Conditionally or unconditionally restores a synchronous data link controller (SDLC) to service. If restored conditionally, an SDLC diagnostic is run, and must be all tests pass (ATP) before the unit is restored to service. If restored unconditionally, no testing is performed.

Note: The input/output processor must be in service before the SDLC can be restored.

2. FORMAT

RST:SDLC=a [:UCL][,CONT] [:RAW][[:DATA][,TLP][,CONT]];

3. EXPLANATION OF MESSAGE

CONT = Restores only the SDLC. The default is to restore the SDLC and all associated synchronous data link (SDL) subdevices.

RAW = Prints the diagnostic results of every phase. The default is the first five failures of each failing phase.

TLP = Executes the trouble locating procedure (TLP) at the conclusion of the diagnostic. This process generates a list of suspected faulty equipment.

Note: The TLP and UCL parameters should not be used together, as no testing is performed on an unconditional restore.

UCL = Unconditional restoration. The default is conditional restoration.

a = Member number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

PF = Printout follows. Followed by RST:SDLC output message.

5. REFERENCES

Input Message(s):

DGN:IOP
DGN:SDLC
RMV:IOP
RMV:SDLC
RST:IOP
Output Message(s):

    ANALY:TLPPFILE
    DGN:IOP
    DGN:SDLC
    RMV:IOP
    RMV:SDLC
    RST:IOP
    RST:SDLC

Input Appendix(es):

    APP:RANGES

Other Manual(s):

235-105-220  Corrective Maintenance
RST:SFI

Software Release: 5E14 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Requests that a digital networking unit - synchronous optical network (DNU-S) synchronous transport signal electrical interface (STSX-1) facility interface (SFI) be restored to service.

2. FORMAT

RST:SFI=a-b-c-d[,STBY][,UCL];

3. EXPLANATION OF MESSAGE

STBY = Restore the unit to the standby state. If the mate SFI is active, this option is required.

UCL = Restore unconditionally without diagnostics.

a = Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

b = DNU-S number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

c = Data group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

d = STSX-1 facility interface number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

NG = No good. The message form is valid, but the request conflicts with current status.

PF = Printout follows. A RST:SFI output message follows.

RL = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

Input Message(s):

ABT:SFI
STP:SFI

Output Message(s):

RST:SFI
RST:SLIM
Software Release: 5E14 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Requests that a subscriber line instrument measurement (SLIM) board in the metallic service unit be conditionally or unconditionally restored to service.

If restored conditionally, the diagnostic will be run. All tests must pass before the unit will be restored to service. If restored unconditionally, no testing is performed.

2. FORMAT

RST:SLIM=a-b-c-d[,UCL];

3. EXPLANATION OF MESSAGE

UCL = Unconditionally restores without diagnosis.
a = Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
b = MSU number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
c = Service group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
d = SLIM board number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

PF = Printout follows. The RST:SLIM output message will follow.

5. REFERENCES

Output Message(s):

RST:SLIM

Input Appendix(es):

APP: RANGES
RST:STS1

Software Release: 5E16(1) and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Requests that a synchronous transport signal - level 1 (STS1) be restored to service. Restoring an STS1 without the ALL and UCL options will restore the STS1 circuit and the OOS-FE children (subtending) circuits. When the ALL option is used in conjunction with UCL option, all OOS children (subtending) circuits and the parent STS1 circuit will be restored.

2. FORMAT

RST:STS1=a-b-c-d-e[,UCL][,ALL];

3. EXPLANATION OF MESSAGE

ALL = All subtending facilities will be restored.
UCL = Restores without first conditionally removing the parent STS1. When the UCL option is used in with the All option, the OOS children of the STS1 and the parent STS1 circuit will be restored.

a = Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
b = Optical interface unit (OIU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
c = Protection group (PG) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
d = Optical carrier - level 3 (OC3) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
e = STS1 number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

NG = No good. The message form is valid, but the request conflicts with current status.
PF = Printout follows. Followed by the RST:STS1 output message.
RL = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

Input Message(s):
ABT: STS1
STP: STS1

Output Message(s):
RST: STS1

Input Appendix(es):
APP: RANGES

Other Manual(s):
235-105-110  System Maintenance Requirements and Tools
235-105-220  Corrective Maintenance

MCC Display Page(s):
1492  OIU STS1 STATUS
RST:STS3C
Software Release: 5E16(2) and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE
Requests that a synchronous transport signal - level 3 concatenated (STS3C) facility be restored to service. Restoring an STS3C with the UCL option will restore the STS3C facility immediately, from the current state, without first attempting a conditional remove of the STS3C. Restoring an STS3C without the ALL option will restore the STS3C facility and any out-of-service family-of-equipment (OOS-FE) subtending circuit(s). When the ALL option is used, all subtending circuit(s) which are eligible to be restored manually will be restored regardless of their current state(s).

2. FORMAT
RST:STS3C=a-b-c-d-e[,UCL][,ALL];

3. EXPLANATION OF MESSAGE
UCL = Restores without first conditionally removing the STS3C.
ALL = All subtending circuit(s) will be restored.
a = Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
b = Optical interface unit (OIU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
c = Protection group (PG) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
d = Optical carrier - level 3 concatenated (OC3C) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
e = STS3C number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE
NG = No good. The message form is valid, but the request conflicts with current status.
PF = Printout follows. Followed by the RST:STS3C output message.
RL = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES
Input Message(s):
ABT:STS3C
STP: STS3C

Output Message(s):

RST: STS3C

Input Appendix(es):

APP: RANGES

Other Manual(s):
235-105-110  System Maintenance Requirements and Tools
235-105-220  Corrective Maintenance

MCC Display Page(s):
1491  OIU OC3C STATUS
RST:STSFAC

Software Release: 5E14 and later
Command Group: SM
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Requests that a digital networking unit - synchronous optical network (DNU-S) synchronous transport signal facility (STSFAC) be restored to service.

WARNING: An unconditional restoration of an STSFAC while the STSFAC is out of service may preempt maintenance activity on the STSFAC.

2. FORMAT

RST:STSFAC=a-b-c-d-e[,ALL][,UCL];

3. EXPLANATION OF MESSAGE

ALL = Restore all subtending facilities.
UCL = Restore unconditionally.
a = Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
b = Digital Networking Unit - SONET (DNU-S) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
c = Data group (DG) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
d = SONET Termination Equipment (STE) facility number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
e = Synchronous Transport Signal (STS) facility number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

NG = No good. The message form is valid, but the request conflicts with current status.
PF = Printout follows. A RST:STSFAC output message follows.
RL = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

Input Message(s):
RST:TAC

Software Release: 5E14 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Restores either conditionally or unconditionally a test and access (TAC) circuit in a trunk unit to service.

2. FORMAT

RST:TAC=a-b-c[,UCL];

3. EXPLANATION OF MESSAGE

If restored conditionally, the diagnostic will be run. All tests must pass before the unit will be restored to service. If restored unconditionally, no testing is performed.

UCL = Unconditionally restores without diagnosis.

a = Switching module number.

b = Trunk unit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

c = Service group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

PF = Followed by RST:TAC output message.

5. REFERENCES

Output Message(s):

RST:TAC

Input Appendix(es):

APP:RANGES
RST:TEN

Software Release: 5E14 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Restores either conditionally or unconditionally a single analog trunk in a trunk unit specified by a trunk equipment number (TEN) circuit in a trunk unit to service. If restored conditionally, the diagnostic will be run. All tests must pass before the unit will be restored to service. If restored unconditionally, no testing is performed.

2. FORMAT

RST:TEN=a-b-c-d-e[,UCL];

3. EXPLANATION OF MESSAGE

- **UCL** = Unconditionally restores without diagnosis.
- **a** = Switching module number.
- **b** = Trunk unit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
- **c** = Service group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
- **d** = Trunk circuit board number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
- **e** = TEN circuit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

PF = Followed by RST:TEN output message.

5. REFERENCES

Output Message(s):

RST:TEN

Input Appendix(es):

APP:RANGES
1. PURPOSE

Requests that a specified time multiplexed switch (TMS) fabric pair (TMSFP) be restored to service. This command also has the option of restoring the TMSFP and all of its children, independent of the child's state (for example, OOS, MAN, RMV).

2. FORMAT

```
RST:TMSFP=a-b[,ALL] [,UCL];
```

3. EXPLANATION OF MESSAGE

- **ALL** = Restores the TMSFP and all its child units (for example, QLPSs, NLIs, DLIs), independent of the child's state (for example, OOS, MAN, RMV, OOS, MAN, FLT).
- **UCL** = Unconditionally restores the TMSFP without diagnostics.
- **a** = ONTC side that the TMSFP is on.
- **b** = TMS fabric pair number.

4. SYSTEM RESPONSE

- **NG** = No good. The request has been denied. The message syntax is valid, but the request could not be processed. Refer to the APP:CM-IM-REASON appendix in the Appendixes section of the Input Messages manual for a list of possible reasons for denying the request.
- **PF** = Printout follows. A RST:TMSFP output message will follow in response to the request.
- **RL** = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

Input Message(s):

```
ABT:TMSFP
OP:CFGSTAT
OP:DMQ-CM-SM
STP:TMSFP
```

Output Message(s):

```
OP:CFGSTAT
OP:DMQ-CM
RST:TMSFP
```
Input Appendix(es):

APP : CM-IM-REASON

MCC Display Page(s):
1212    TMS FABRIC PAIR STATUS
1214    QLPS SUMMARY
1220,b   TMS LINK SUMMARY (where b=TMSFP number).
1. PURPOSE

Requests that a specified time multiplexed switch link (TMSLNK) be restored to service. The TMS portion of the
office network and timing circuit common (ONTCCOM) portion, and the DLI, dual link interface, both must be in
service prior to restoring a TMSLNK. No diagnostics exist for TMSLNKS. Therefore, any request that TMSLNKS be
restored is an unconditional request.

2. FORMAT

RST:TMSLNK=a-{b|b&&c},UCL;

3. EXPLANATION OF MESSAGE

UCL = Restore the line unconditionally. Since there is no diagnostic for the TMSLNK, adding the UCL
option has no effect on the message. The option is provided for consistency with other input
messages.

a = ONTC side that the TMSLNK(s) are on.

b = Number of the specific TMS link to be restored, on the lower limit in a range of TMS line numbers.

c = Upper limit is a range of TMS line numbers.

Note: If a TMSLNK that is part of a range request is either unequipped or already in
service, no action will be performed on that link.

4. SYSTEM RESPONSE

NG = No good. The request has been denied. The message syntax is valid, but the request could not
be processed. Refer to the APP:CM-IM-REASON appendix in the Appendixes section of the Input
Messages manual for a list of possible reasons for denying the request.

PF = Printout follows. A RST:TMSLNK output message will follow in response to the request.

RL = Retry later. The request cannot be executed now because the communication module (CM)
deferred maintenance queue (DMQ) is full.

5. REFERENCES

Input Message(s):

OP:CFGSTAT
APP:CM–IM–REASON

Output Message(s):

RST:TMSLNK
RST:TMSLNK-B

Software Release: 5E16(2) and later
Command Group: CM
Application: 5
Type: Input

1. PURPOSE

Requests that a specified time multiplexed switch link (TMSLNK) be restored to service. The DLI or NLI associated with the TMSLNK must be in service prior to restoring the TMSLNK. No diagnostics exist for TMSLNKS. Therefore, any request that TMSLNKs be restored is an unconditional request.

2. FORMAT

RST:TMSLNK=a[-b]-c[&d],[,UCL];

3. EXPLANATION OF MESSAGE

UCL = Restore the link unconditionally. Since there is no diagnostic for the TMSLNK, adding the UCL option has no effect on the message. The option is provided for consistency with other input messages.

a = ONTC side that the TMSLNK(s) are on.

b = Time multiplexed switch fabric pair (TMSFP) number. For CM2 offices, this parameter is optional, and when entered, must always be TMS fabric pair 0. For CM3 offices, this parameter is required to identify a TMS link. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

c = Number of the specific TMS link to be restored, or the lower limit in a range of TMS link numbers.

d = Upper limit for a range of TMS link numbers.

If a TMSLNK that is part of a range request is either unequipped or already in service, no action will be performed on that link.

4. SYSTEM RESPONSE

NG = No good. The request has been denied. The message syntax is valid, but the request could not be processed. Refer to the APP:CM-IM-REASON appendix in the Appendixes section of the Input Messages manual for a list of possible reasons for denying the request.

PF = Printout follows. Followed by the RST:TMSLNK output message.

RL = Retry later. The request cannot be executed now because the communication module (CM) deferred maintenance queue (DMQ) is full.

5. REFERENCES

Input Message(s):

OP:CFGSTAT
Input Appendix(es):

APP: CM-IM-REASON
APP: RANGES

Output Message(s):

RST: TMSLNK

MCC Display Page(s):

1220[b] TMS 0 & 1 LINK SUMMARY (where b=TMSFP for CM3)
1221[b] TMS 0 LINKS  2-61  (where b=TMSFP for CM3)
1222[b] TMS 0 LINKS  62-125 (where b=TMSFP for CM3)
1223[b] TMS 0 LINKS 126-189 (where b=TMSFP for CM3)
1224[b] TMS 0 LINKS 190-253 (where b=TMSFP for CM3)
1225[b] TMS 0 LINKS 254-317 (where b=TMSFP for CM3)
1226[b] TMS 0 LINKS 318-381 (where b=TMSFP for CM3)
1227[b] TMS 0 LINKS 382-445 (where b=TMSFP for CM3)
1228[b] TMS 0 LINKS 446-511 (where b=TMSFP for CM3)
1231[b] TMS 1 LINKS  2-61  (where b=TMSFP for CM3)
1232[b] TMS 1 LINKS  62-125 (where b=TMSFP for CM3)
1233[b] TMS 1 LINKS 126-189 (where b=TMSFP for CM3)
1234[b] TMS 1 LINKS 190-253 (where b=TMSFP for CM3)
1235[b] TMS 1 LINKS 254-317 (where b=TMSFP for CM3)
1236[b] TMS 1 LINKS 318-381 (where b=TMSFP for CM3)
1237[b] TMS 1 LINKS 382-445 (where b=TMSFP for CM3)
1238[b] TMS 1 LINKS 446-511 (where b=TMSFP for CM3)
RST:TMUX

Software Release: 5E14 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Requests that a digital networking unit - synchronous optical network (DNU-S) transmission multiplexer (TMUX) be restored to service.

2. FORMAT

RST:TMUX=a-b-c-d[,UCL];

3. EXPLANATION OF MESSAGE

UCL = Restore unconditionally without diagnostics.

a = Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

b = DNU-S number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

c = Data group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

d = TMUX number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

NG = No good. The message form is valid, but the request conflicts with current status.

PF = Printout follows. A RST:TMUX output message follows.

RL = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

Input Message(s):

   ABT:TMUX
   STP:TMUX

Output Message(s):

   RST:TMUX
Input Appendix(es):

APP : RANGES

Other Manual(s):
235-105-110  System Maintenance Requirements and Tools
235-105-220  Corrective Maintenance

MCC Display Page(s):

1510 (DNUS STATUS)
RST:TRFM

Software Release: 5E16(1) and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE
Requests a restore of a traffic measurements settings.

2. FORMAT
RST:TRFM[,NOCHG];

3. EXPLANATION OF MESSAGE
NOCHG = Command with this parameter removes all stored data from the relation.

4. SYSTEM RESPONSE
NG = No good. May also include:
- Stored data not found. = Restore process not executed because backup command was not executed.

OK = Okay. May also include:
- Process completed successfully = Restore process completed successfully.

5. REFERENCES
Other Manual(s):
235-040-100 Switch Operations, Administration and Maintenance Planning Guide
235-070-100 Administration and Engineering Guidelines
RST:TRIB

Software Release: 5E15 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Requests that a PCT (Peripheral Control and Timing) link tributary (TRIB) is restored to service. If the TRIB is restored conditionally, a conditional remove is done first.

2. FORMAT

RST:TRIB=a-b-c-d[,UCL];

3. EXPLANATION OF MESSAGE

a  = Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

b  = PLTU (PCT Line and Trunk Unit) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

c  = PCT Facility Interface number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

d  = PCT Tributary number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

UCL = Restore unconditionally.

4. SYSTEM RESPONSE

NG  = No good. Valid values are:
     - REASON FOR NG = The message form is valid, but the request conflicts with current status.

PF  = Printout follows. A RST:TRIB output message follows.

RL  = Retry later. The request cannot be executed now due to unavailable system resource.

5. REFERENCES

Input Message(s):
ABT:TRIB
STP:TRIB
RMV:TRIB

Output Message(s):
RST:TRIB
Input Appendix(es):

APP: RANGES

Other Manual(s):

235-105-110 System Maintenance Requirements and Tools
235-105-220 Corrective Maintenance

MCC Display Page(s):

1430 (PLTU Status page)
1431 (PLTU Tributary Status Page)
1. PURPOSE

Requests that a trunk, a range of trunks in a trunk group, an entire trunk group, a primary rate interface (PRI) group, all trunks on a digital facility interface (DFI), or all trunks on a digital networking unit - synchronous optical network (SONET) (DNU-S) virtual tributary level 1 facility be returned to service by deleting the specified out-of-service (OOS) condition. If no port status is given, a default port status is assumed.

A trunk may have from one to four OOS statuses. If no other OOS status is pending after the OOS status is deleted, the trunk is placed back in service and idled. If another OOS status was pending, the trunk is treated according to the pending OOS status.

Digital equipment number (DEN) is used for trunk identification. This can be used to restore all trunks on a digital facility interface (DFI) by specifying the facility.

An integrated digital carrier unit (IDCU) line equipment number (ILEN) is used to restore a trunk.

A multi-line hunt group and member number is used to restore a trunk. This is specific to X.25 access on T1 (XAT) ports only.

A packet directory number (PKTDN) is used to restore a trunk. This is also specific to XAT ports.

A PRI group number is used to restore a PRI. If the type of channel to be restored is not specified, the D-channel(s) of the PRI group will be restored. Format 5 allows the option of restoring either the D-channel(s) of the PRI group or all the B-channels of the PRI group. This format cannot be used for operator services position system (OSPS) PRIs because they are not assigned PRI group numbers.

A packet switching unit (PSU) equipment number (PSUEN) is used for trunk identification.

A SLC® line equipment number (SLEN) is used to restore a trunk.

A trunk equipment number (TEN) is used for trunk identification.

A trunk group number is used to restore.

A trunk group member number (TKGMN) is used for trunk identification. It also allows a range of trunks in a group to be specified.

A networking equipment number (NEN) is used for trunk identification. This can be used to restore all trunks on a virtual tributary 1.5 facility by specifying the facility.

An integrated digital loop carrier (IDLC) networking equipment number (INEN) is used to restore a trunk.

If the trunk to be restored is a custom PRI D-channel or OSPS PRI D-channel, up to 23 associated B-channels may also be restored as a result. If the trunk to restored is a standard PRI D-channel, up to 479 B-channels may also be restored as a result.

NOTE: When a packet trunk is restored, a loopback test is executed. This loopback test generates a receiver ready frame at layer 2, which, due to hardware limitations, is erroneously sent to the trunk's far end. To take care of this case, the switch at the far end should follow the International Telecommunication Union - Telecommunication Standardization Sector (ITU-TS) (formerly CCITT) X75 recommendation which
specifies discarding any invalid frames while in the disconnected state.

2. FORMAT

\[ \text{RST:TRK}, [m^1] [,UCL] [:[w] [,x] [,y] [,z]] [,SUM]; \]

3. EXPLANATION OF MESSAGE

**UCL**
- Restore the trunk(s) unconditionally. For a CCS7 trunks, this option bypasses the default automatic test provisioned for the TG (if any). For a packet switching trunk, this option restores the trunk to service without performing a digital loop back test at the office channel unit (OCU).

**a**
- Trunk group in which all of the members will have the specified status deleted. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

**b**
- Trunk group member number, or the lower limit of a range of trunk group member numbers. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

**c**
- Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

**d**
- Trunk unit. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

**e**
- Service group. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

**f**
- Channel board. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

**g**
- Circuit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

**h**
- Channel (D,B). Valid value(s):
  - **D** = Specifying this causes the D-channel(s) of the PRI group to be restored. If the PRI has a backup D-channel, it is also restored.
  - **B** = Specifying this will cause all of the B-channels of the PRI group to be restored.

When used with the PRIGRP identifier, this option specifies which channels on the PRIGRP are to be restored.

**i**
- Digital line and trunk unit (DLTU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

**j**
- Digital facility interface number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

**k**
- Channel number. If this is a DFI-1, there is only one facility, channels 1-24. If this is a DFI-2, channels 1-24 are associated with facility T1 A and channels 25-48 are associated with facility T1 B. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

Valid value(s):
- **ALL** = If ALL is requested, all channels on the DFI will have the specified OOS status deleted. For DFI-1, this will be channels 1-24. For DFI-2, this will be channels 1-48. The FAC option can be used to specify which set of 24 channels to restore for a DFI-2. Refer to the FAC option.
for additional information.

l = Multi-line hunt group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

m = Multi-line hunt group member number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

n = Directory number (DN).

o = Upper limit of a range of trunk group members.

p = Digital carrier line unit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

q = Remote terminal (RT) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

r = Remote terminal line number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual. Valid value(s):
   ALL = Delete the specified OOS status for all trunks on the RT.

s = Facility numbers. Valid value(s):
   0 = Restore channels 1 through 24.
   1 = Restore channels 25 through 48.

When used with the DEN identifier, this option specifies the facility to be restored. It is only valid for DFI-2 hardware. The DEN identifier must have the channel set to ALL. Refer to the DEN identifier for additional information.

t = IDCU number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

u = Remote terminal (RT) number or IDCU digital signal level 1 (DS1) serving PUB43801 number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

v = RT line number or PUB43801 channel. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

If a status is not specified, statuses will be deleted depending on trunk type.

<table>
<thead>
<tr>
<th>One-way incoming trunks</th>
<th>OOS, MTCE, DSBLD</th>
</tr>
</thead>
<tbody>
<tr>
<td>One-way outgoing trunks,</td>
<td>OOS, MTCE, DSBLD and/or</td>
</tr>
<tr>
<td>two-way trunks, and CAMA ONI trunks</td>
<td>OOS, MTCE, LKDO</td>
</tr>
<tr>
<td>Announcement port</td>
<td>OOS, MTCE, RAP</td>
</tr>
<tr>
<td>CCS trunks</td>
<td>OOS, MTCE, DSBLD</td>
</tr>
<tr>
<td>XAT ports</td>
<td>No default.</td>
</tr>
</tbody>
</table>

All other OOS statuses must be removed by explicitly stating the status to be deleted from the trunk. Refer to the APP:PORT-STATUS appendix in the Appendixes section of the Output Messages manual to determine valid states for each port type.

For XAT ports, any manual state will be deleted if no state is specified. In addition, the DSLINIT and LVL2ERR states will be deleted, if possible.
Status subfields are always separated by a single comma, even if in-between subfields are omitted (as in OOS,LKDO).

**NOTE:** If a status sub-field is entered without entering the previous sub-field, the default values indicated will be assumed.

\[ w \]

- Basic state. Valid value(s):
  - ALL = If entered no other status fields need be specified and all existing status information (primary and pending) will be removed for the specified trunk(s). This will result in the trunk(s) being placed in-service (IS). Care should be exercised when using this option since restoring trunks that are OOS MTCE FE or FAF could result in undesired effects (that is, PORTLA audit failures and so forth).
  - OOS = Out-of-service (default).

\[ x \]

- Qualifier (choose one or omit). Valid value(s):
  - BLKD = Blocked. If basic state field 'w' is not specified, it will be defaulted to OOS.
  - CADN = Circuit administration. If basic state field 'w' is not specified, it will be defaulted to OOS.
  
  **NOTE:** If CADN is specified, the operational restriction of DSBLD or LKDO must also be specified.

- DSLINIT = DSL initialization. If basic state field 'w' is not specified, it will be defaulted to OOS.
- MTCE = Maintenance. If basic state field 'w' is not specified, it will be defaulted to OOS.
- PPSRV = Pre/post service. If basic state field 'w' is not specified, it will be defaulted to OOS.
- TMT = Traffic management (valid only for outgoing trunks). If basic state field 'w' is not specified, it will be defaulted to OOS.

\[ y \]

- Operational restrictions (choose one or omit). Valid value(s):
  - DCHOOS = D-channel is OOS. If qualifier field 'x' is not specified, it will be defaulted to MTCE.
  - DSBLD = Disabled (busies outgoing calls and causes seizure toward far end office). If qualifier field 'x' is not specified, it will be defaulted to MTCE.
  - HW = High and wet. If qualifier field 'x' is not specified, it will be defaulted to MTCE.
  - LKDO = Locked out (busies outgoing calls only). If qualifier field 'x' is not specified, it will be defaulted to MTCE.
  - LVL2ERR = Level 2 protocol error. If qualifier field 'x' is not specified, it will be defaulted to MTCE.
  - LVL3ERR = Level 3 protocol error. If qualifier field 'x' is not specified, it will be defaulted to MTCE.
  - RAP = Announcement port. If qualifier field 'x' is not specified, it will be defaulted to MTCE.

\[ z \]

- Supplementary information (choose one or omit). Valid value(s):
  - AML = Automatic maintenance limit.
  - AUDIT = Audit detected problem.
  - CAMA = Central automatic message accounting.
  - CAROT = Centralized automatic reporting on trunks.
  - CDI = Control and data interface.
  - CRT = Circuit.
  - CTTU = Central trunk testing unit.
  - DFI = Digital facility interface.
<table>
<thead>
<tr>
<th>Abbreviation</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>ERATC</td>
<td>Trunk error analysis errors detected.</td>
</tr>
<tr>
<td>ERATP</td>
<td>Trunk error analysis all tests passed.</td>
</tr>
<tr>
<td>FORPOT</td>
<td>Foreign potential.</td>
</tr>
<tr>
<td>GRID</td>
<td>Line unit grid.</td>
</tr>
<tr>
<td>IAA</td>
<td>Ineffective attempt analysis.</td>
</tr>
<tr>
<td>L2QLTY</td>
<td>Poor level 2 transmission quality.</td>
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<td>Per-call test failure.</td>
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<td>Periodic pulse metering.</td>
</tr>
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<td>Packet switch unit.</td>
</tr>
<tr>
<td>RESTART</td>
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<tr>
<td>REX</td>
<td>Routine exercise.</td>
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<td>Routine/other reasons.</td>
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<tr>
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<td>Operational test failure.</td>
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<tr>
<td>RSMMSA</td>
<td>Remote switching module (RSM) in module stand-alone mode (MSA) of operation.</td>
</tr>
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<td>Switching Control Center.</td>
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<td>Q.931 SERVICE message.</td>
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<td>Port involved in an ISLU sparing configuration.</td>
</tr>
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<td>TICOM</td>
<td>Treated interface common circuit.</td>
</tr>
<tr>
<td>TRBL</td>
<td>Uns specified trouble.</td>
</tr>
<tr>
<td>TRBLORG</td>
<td>Origination trouble.</td>
</tr>
<tr>
<td>TRKBD</td>
<td>Trunk board.</td>
</tr>
<tr>
<td>TRKCT</td>
<td>Trunk circuit.</td>
</tr>
</tbody>
</table>

`a^1` = PRI group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`b^1` = Digital networking unit - SONET number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`c^1` = Data group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`d^1` = SONET termination equipment (STE) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`e^1` = Synchronous transport signal (STS) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`f^1` = Virtual tributary group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`g^1` = Virtual tributary member number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

`h^1` = Digital signal level 0 (DS0). Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual. Valid value(s):

- ALL = If ALL is requested, all channels on the VT1.5 facility will have the specified OOS status deleted.

`i^1` = PSU unit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
j = PSU shelf number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

k = PSU channel group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

l = PSU channel group member number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual. Valid value(s):

ALL = If ALL is requested, all members on the PSU channel group will have the specified OOS status deleted.

m = Equipment number. Valid value(s):

DEN=h-i-j-k[,FAC=s]
ILEN=c-t-u-v
MLHG=l-m
PKTDN=n
PRIGRP=a[,CH=h]
PSUEN=c-i-j-k-l
SLEN=c-p-q-r
TEN=c-d-e-f-g
TG=a
TKGMN=a-b[&&o]
NEN=c-b-d-e-f-g-h
INEN=c-b-d-e-f-g-h
VNAR=c-n
VTRK=c-o-p

n = Virtual network announcement resource number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

o = Virtual trunk facility number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

p = Virtual trunk channel number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

PF = Printout follows. Request accepted. Followed by an RST:TRK output message.

NOTE: If the trunk to be restored is controlled by another process, the port will be camped on (refer to the REPT:CAMPON output message). The camp-on can be stopped by using the STP:CAMPON input message which aborts the port restoration.

RL = Retry later. Request denied, probably due to system load. The OP:JOBSTATUS input message can be used to determine if the RL was because the maximum number of jobs are active.

5. REFERENCES

Input Message(s):
OP: JOBSTATUS
RMV: TRK
STP: CAMPON

Output Message(s):

REPT: CAMPON
REPT: TRK-SUM
RST: TRK

Input Appendix(es):

APP: RANGES

Output Appendix(es):

APP: PORT-STATUS

Other Manual(s):
235-105-110 System Maintenance Requirements and Tools
235-190-104 ISDN Feature Description
235-200-115 CNI Common Channel Signaling
235-200-116 Signaling Gateway Common Channel Signaling
235-900-341 National ISDN Basic Rate Interface Specification
1. PURPOSE

Requests that a trunk, a range of trunks in a trunk group, an entire trunk group, a primary rate interface (PRI) group, all trunks on a digital facility interface (DFI), all trunks on a digital networking unit - synchronous optical network (SONET) (DNU-S) virtual tributary level 1 facility, or all trunks on a peripheral control and timing line and trunk unit (PLTU) be returned to service by deleting the specified out-of-service (OOS) condition. If no port status is given, a default port status is assumed.

When the PSUEN for the PCF trunk is entered, the entire PCF trunk group will be restored.

A trunk may have from one to four OOS statuses. If no other OOS status is pending after the OOS status is deleted, the trunk is placed back in service and idled. If another OOS status was pending, the trunk is treated according to the pending OOS status.

If the trunk to be restored is an custom PRI D-channel or OSPS PRI D-channel, up to 23 associated B-channels may also be restored as a result. If the trunk to restored is a standard PRI D-channel, up to 479 B-channels may also be restored as a result.

NOTE: When a packet trunk is restored, a loopback test is executed. This loopback test generates a receiver ready frame at layer 2, which, due to hardware limitations, is erroneously sent to the trunk's far end. To take care of this case, the switch at the far end should follow the International Telecommunication Union - Telecommunication Standardization Sector (ITU-TS) (formerly CCITT) X75 recommendation which specifies discarding any invalid frames while in the disconnected state.

Restoring a CCS trunk from the OOS,MTCE,DSBLD,TRBL status will cause trunk's status change to OOS,MTCE, CCSINIT,TRBL and reset sending start immediately for the restored trunk.

2. FORMAT

RST:TRK,q 1[,UCL][:[w][,x][,y][,z]][,SUM];

3. EXPLANATION OF MESSAGE

UCL = Restore the trunk(s) unconditionally. For a CCS7 trunks, this option bypasses the default automatic test provisioned for the TG (if any). For a packet switching trunk, this option restores the trunk to service without performing a digital loop back test at the office channel unit (OCU).

a = Trunk group or bearer independent call control (BICC) group in which all of the members will have the specified status deleted. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

b = Trunk group member or normalized call instance code (CIC), or the lower limit of a range of trunk group member numbers or normalized CICs. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

c = Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

d = Trunk unit. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
= Service group. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

e = Channel board. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

f = Circuit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

g = Channel (D,B). Valid value(s):
  D = Specifying this causes the D-channel(s) of the PRI group to be restored. If the PRI has a backup D-channel, it is also restored.
  B = Specifying this will cause all of the B-channels of the PRI group to be restored.

When used with the PRIGRP identifier, this option specifies which channels on the PRIGRP are to be restored.

h = Digital line and trunk unit (DLTU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

i = Digital facility interface number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

j = Digital facility interface number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

k = Channel number. If this is a DFI-1, there is only one facility, channels 1-24. If this is a DFI-2, channels 1-24 are associated with facility T1 A and channels 25-48 are associated with facility T1 B. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual. Valid value(s):
  ALL = If ALL is requested, all channels on the DFI will have the specified OOS status deleted. For DFI-1, this will be channels 1-24. For DFI-2, this will be channels 1-48. The FAC option can be used to specify which set of 24 channels to restore for a DFI-2. Refer to the FAC option for additional information.

l = Multi-line hunt group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

m = Multi-line hunt group member number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

n = Directory number (DN).

o = Upper limit of a range of trunk group members or normalized CICs.

p = Digital carrier line unit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

q = Remote terminal (RT) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

r = Remote terminal line number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual. Valid value(s):
  ALL = Delete the specified OOS status for all trunks on the RT.
If a status is not specified, statuses will be deleted depending on trunk type.

<table>
<thead>
<tr>
<th>Trunk Type</th>
<th>Default Status</th>
</tr>
</thead>
<tbody>
<tr>
<td>One-way incoming trunks</td>
<td>OOS, MTCE, DSBLD</td>
</tr>
<tr>
<td>One-way outgoing trunks, two-way trunks, and CAMA ONI trunks</td>
<td>OOS, MTCE, DSBLD and/or OOS, MTCE, LKDO</td>
</tr>
<tr>
<td>Announcement port</td>
<td>OOS, MTCE, RAP</td>
</tr>
<tr>
<td>CCS trunks</td>
<td>OOS, MTCE, DSBLD</td>
</tr>
<tr>
<td>XAT ports</td>
<td>No default.</td>
</tr>
</tbody>
</table>

All other OOS statuses must be removed by explicitly stating the status to be deleted from the trunk. Refer to the APP:PORT-STATUS appendix in the Appendixes section of the Output Messages manual to determine valid states for each port type.

For XAT ports, any manual state will be deleted if no state is specified. In addition, the DSLINIT and LVL2ERR states will be deleted, if possible.

Status subfields are always separated by a single comma, even if in-between subfields are omitted (as in OOS, LKDO).

If a status sub-field is entered without entering the previous sub-field, the default values indicated will be assumed.

- **s** = Facility numbers. Valid value(s):
  - 0 = Restore channels 1 through 24.
  - 1 = Restore channels 25 through 48.

When used with the DEN identifier, this option specifies the facility to be restored. It is only valid for DFI-2 hardware. The DEN identifier must have the channel set to ALL. Refer to the DEN identifier for additional information.

- **t** = IDCU number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

- **u** = Remote terminal (RT) number or IDCU digital signal level 1 (DS1) serving PUB43801 number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

- **v** = RT line number or PUB43801 channel. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

- **w** = Basic state. Valid value(s):
  - **ALL** = If entered no other status fields need be specified and all existing status information (primary and pending) will be removed for the specified trunk(s). This will result in the trunk(s) being placed in-service (IS). Care should be exercised when using this option since restoring trunks that are OOS MTCE FE or FAF could result in undesired effects (that is, PORTLA audit failures and so forth).
  - **OOS** = Out-of-service (default).

- **x** = Qualifier (choose one or omit). Valid value(s):
  - **BLKD** = Blocked. If variable ‘w’ is not specified, it will be defaulted to OOS.
  - **CADN** = Circuit administration. If variable ‘w’ is not specified, it will be defaulted to OOS.

  If CADN is specified, the operational restriction of DSBLD or LKDO must also be specified.
  - **DSLINIT** = DSL initialization. If variable ‘w’ is not specified, it will be defaulted to OOS.
MTCE = Maintenance. If variable 'w' is not specified, it will be defaulted to OOS.
PPSRV = Pre/post service. If variable 'w' is not specified, it will be defaulted to OOS.
TMT = Traffic management (valid only for outgoing trunks). If variable 'w' is not specified, it will be defaulted to OOS.

y = Operational restrictions (choose one or omit). Valid value(s):
DCHOOS = D-channel is OOS. If variable 'x' is not specified, it will be defaulted to MTCE.
DSBLD = Disabled (busies outgoing calls and causes seizure toward far end office). If variable 'x' is not specified, it will be defaulted to MTCE.
HW = High and wet. If variable 'x' is not specified, it will be defaulted to MTCE.
LKDO = Locked out (busies outgoing calls only). If variable 'x' is not specified, it will be defaulted to MTCE.
LVL2ERR = Level 2 protocol error. If variable 'x' is not specified, it will be defaulted to MTCE.
LVL3ERR = Level 3 protocol error. If variable 'x' is not specified, it will be defaulted to MTCE.
RAP = Announcement port. If variable 'x' is not specified, it will be defaulted to MTCE.

z = Supplementary information (choose one or omit). Valid value(s):
AML = Automatic maintenance limit.
AUDIT = Audit detected problem.
CAM = Central automatic message accounting.
CAROT = Centralized automatic reporting on trunks.
CDI = Control and data interface.
CKT = Circuit.
CTTU = Central trunk testing unit.
DFI = Digital facility interface.
DS1OOS = OOS because DS1 is OOS.
ECFAIL = Failure to link L3 dynamic data.
ERATC = Trunk error analysis errors detected.
ERATP = Trunk error analysis all tests passed.
FORPOT = Foreign potential.
GRID = Line unit grid.
IAA = Ineffective attempt analysis.
L2QLTY = Poor level 2 transmission quality.
PCTF = Per-call test failure.
PPM = Periodic pulse metering.
PROV = Unable to provision TR303 port.
PSU = Packet switch unit.
FVELBK = Protocol handler voice encoding loopback test failed.
RESTART = Q.931 RESTART message.
REX = Routine exercise.
RO = Routine/other reasons.
ROTF = Operational test failure.
RSMMSA = Remote switching module (RSM) in module stand-alone mode (MSA) of operation.
SCC = Switching Control Center.
SERVICE = Q.931 SERVICE message.
SPARED = Port involved in an ISLU sparing configuration.
TICOM = Treated interface common circuit.
TRBL = Unspecified trouble.
TRBLORG = Origination trouble.
TRKBD = Trunk board.
TRKCT = Trunk circuit.

\[a\] = PRI group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

\[b\] = Digital networking unit - SONET number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

\[c\] = Data group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

\[d\] = SONET termination equipment (STE) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

\[e\] = Synchronous transport signal (STS) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

\[f\] = Virtual tributary group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

\[g\] = Virtual tributary member number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

\[h\] = Digital signal level 0 (DS0). Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual. Valid value(s):
  ALL  = If ALL is requested, all channels on the VT1.5 facility will have the specified OOS status deleted.

\[i\] = PSU unit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

\[j\] = PSU shelf number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

\[k\] = PSU channel group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

\[l\] = PSU channel group member number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual. Valid value(s):
  ALL  = If ALL is requested, all members on the PSU channel group will have the specified OOS status deleted.

\[m\] = PLTU number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

\[n\] = PCT facility interface (PCTFI) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

\[o\] = Tributary number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

\[p\] = Channel number. Refer to the APP:RANGES appendix in the Appendixes section of the Input
Messages manual. Valid value(s):
ALL = If ALL is requested, all channels on the PLTU facility will have the specified OOS status deleted.

q = Equipment number. Valid value(s):
ATMPP=c-i^1\text{-}y^1\text{-}z^1
DEN=h\text{-}i\text{-}j\text{-}k[,FAC=s]
ILEN=c\text{-}t\text{-}u\text{-}v
INEN=c\text{-}b^1\text{-}u\text{-}v
MLHG=l\text{-}m
NEN=c\text{-}b^1\text{-}c^1\text{-}d^1\text{-}e^1\text{-}f^1\text{-}g^1\text{-}h^1
OIUEN=c\text{-}t^1\text{-}u^1\text{-}v^1\text{-}w^1\text{-}f^1\text{-}x^1\text{-}p^1
PKTDN=n
PLTEN=c\text{-}l^1\text{-}m^1\text{-}n^1\text{-}o^1
PRIGRP=a^1[,CH=h]
PSUEN=c\text{-}i^1\text{-}j^1\text{-}k^1\text{-}l^1
SLEN=c\text{-}p\text{-}q\text{-}r
TEN=c\text{-}d\text{-}e\text{-}f\text{-}g
TG=a
TKGMN=a\text{-}b[&\&o]
VTRK=c\text{-}r^1\text{-}s^1

r = Virtual trunk facility number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

s = Virtual trunk channel number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

t = Optical interface unit (OIU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

u = Protection group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

v = OC-3 STE number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

w = STS level 1 (STS-1) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

x = Virtual tributary member (VTM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

y = Link number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

z = Virtual connection identifier (VCID) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE
PF  = Printout follows. Request accepted. Followed by the RST:TRK output message.

If the trunk to be restored is controlled by another process, the port will be camped on (refer to the REPT:CAMPON output message). The camp-on can be stopped by using the STP:CAMPON input message that aborts the port restoration.

RL  = Retry later. Request denied, probably due to system load. The OP:JOBSTATUS input message can be used to determine if the RL was because the maximum number of jobs are active.

5. REFERENCES

Input Message(s):

- OP:JOBSTATUS
- RMV:TRK
- STP:CAMPON

Output Message(s):

- REPT:CAMPON
- REPT:TRK-SUM
- RST:TRK

Input Appendix(es):

- APP:RANGES

Output Appendix(es):

- APP:PORT-STATUS

Other Manual(s):
- 235-105-110  System Maintenance Requirements and Tools
- 235-190-104  ISDN Feature Description
- 235-200-115  CNI Common Channel Signaling
- 235-200-116  Signaling Gateway Common Channel Signaling
- 235-900-341  National ISDN Basic Rate Interface Specification
RST:TTFCOM
Software Release: 5E14 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE
Conditionally or unconditionally restores a transmission test facility common (TTFCOM) board in a global digital service unit (GDSU) to service.

2. FORMAT
RST:TTFCOM=a-b-c-d[,UCL];

3. EXPLANATION OF MESSAGE
If restored conditionally, the diagnostic will be run. All tests must pass before the unit will be restored to service. If restored unconditionally, no testing is performed.

UCL = Unconditionally restores without diagnosis.

a = Switching module (SM) number.

b = GDSU number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

c = Service group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

d = Board number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE
PF = Printout follows. The request has been received. Followed by an RST:TTFCOM output message.

5. REFERENCES
Output Message(s):

RST:TTFCOM
RST:TTY
Software Release: 5E14 and later
Command Group: SM
Application: 5,3B
Type: Input

1. PURPOSE
Unconditionally restores the specified teletypewriter (TTY) to service.

Note: The input/output processor (IOP) and the teletypewriter controller (TTYC) must be in service before the TTY can be restored.

TTY is a subdevice of TTYC. Restoring a TTY by using RST:TTY a! has the same effect as using RST:TTY a;UCL!

2. FORMAT
RST:TTY=a;

3. EXPLANATION OF MESSAGE
a = Member number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE
PF = Printout follows. Followed by the RST:TTY output message.

5. REFERENCES
Input Message(s):
DGN:IOP
DGN:TTYC
RMV:IOP
RMV:TTY
RMV:TTYC
RST:IOP
RST:TTYC

Output Message(s):
DGN:IOP
DGN:TTYC
RMV:IOP
RMV:TTY
RMV:TTYC
RST:IOP
RST:TTY
RST:TTYC
Input Appendix(es):

APP : RANGES

Other Manual(s):
235-105-220  Corrective Maintenance
RST:TTYC

Software Release: 5E14 and later
Command Group: AM
Application: 5,3B
Type: Input

1. PURPOSE

Conditionally or unconditionally restores a teletypewriter controller (TTYC) to service. If restored conditionally, a TTYC diagnostic is run and must be all tests pass (ATP) before the unit is restored to service. If restored unconditionally, no testing is done on the unit to be restored.

Note: The input output processor (IOP) must be in service before the TTYC can be restored.

2. FORMAT

RST:TTYC=a[:UCL][,CONT]=[:RAW][[:DATA][,TLP][,CONT]]

3. EXPLANATION OF MESSAGE

CONT = Restores only the TTYC. The default is to restore the TTYC and all associated teletypewriters.

RAW = Prints the diagnostic results of every phase. The default is the first five failures of each failing phase.

TLP = Executes the trouble locating procedure (TLP) at the conclusion of the diagnostic. This process generates a list of suspected faulty equipment.

Note: The TLP and UCL parameters should not be used together, as no testing is performed on an unconditional restore.

UCL = Unconditional restoration. The default is conditional restoration.

a = Member number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

PF = Printout follows. Followed by the RST:TTYC output message.

5. REFERENCES

Input Message(s):

DGN:IOP
DGN:TTYC
RMV:IOP
RMV:TTYC
RST:IOP
Output Message(s):

ANALY: TLPFILE
DGN: IOP
DGN: TTYC
RMV: IOP
RMV: TTYC
RST: IOP
RST: TTYC

Input Appendix(es):

APP: RANGES

Other Manual(s):
235-105-220  Corrective Maintenance
RST:TUCHBD

**Software Release:** 5E14 and later  
**Command Group:** SM  
**Application:** 5  
**Type:** Input

1. **PURPOSE**

Conditionally or unconditionally restores a trunk unit channel board (TUCHBD) to the active state.

2. **FORMAT**

RST:TUCHBD=a-b-c-d[,UCL];

3. **EXPLANATION OF MESSAGE**

If restored conditionally, the diagnostic will be run on all trunk equipment number (TEN) circuits on the board. All tests must pass before the unit will be restored to service. If restored unconditionally, no testing is performed.

- **UCL** = Unconditionally restores without diagnosis.
- **a** = Switching module number.
- **b** = Trunk unit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
- **c** = Service group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
- **d** = Trunk circuit/channel board number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. **SYSTEM RESPONSE**

**PF** = Printout follows. Followed by the RST:TUCHBD output message.

5. **REFERENCES**

Output Message(s):

RST:TUCHBD

Input Appendix(es):

APP:RANGES
RST:UCONF
Software Release: 5E14 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE
Conditionally or unconditionally restores a universal conference (UCONF) circuit board in a global digital service unit (GDSU) to service.

2. FORMAT
RST:UCONF=a-b-c-d[,UCL];

3. EXPLANATION OF MESSAGE
If restored conditionally, the diagnostic will be run. All tests must pass before the unit will be restored to service. If restored unconditionally, no testing is performed.

UCL = Unconditionally restores without diagnosis.

a = Switching module number.

b = Global digital service unit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

c = Service group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

d = Digital service unit board number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE
PF = Printout follows. Followed by the RST:UCONF output message.

5. REFERENCES
Output Message(s):

RST:UCONF

Input Appendix(es):

APP:RANGES
RST:UMBIL

Software Release: 5E14 and later
Command Group: SM
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Requests that a host umbilical (UMBIL) circuit be restored to service. This message is applicable for host umbilicals terminating on a digital line and trunk unit (DLTU) or on a digital networking unit - synchronous optical network (DNU-S). This is an alternative way to address a restore of a host facility (HFAC) or a DS1 facility.

WARNING: A restoration of an UMBIL while the UMBIL is out of service may preempt maintenance activity on the UMBIL.

2. FORMAT

RST:UMBIL=a-b-c[,UCL];

3. EXPLANATION OF MESSAGE

UCL = Unconditionally execute the restore.

a = Host Switch Module (HSM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

b = Remote Switch Module (RSM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

c = UMBIL number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

PF = Printout follows. A RST:UMBIL output message will follow.

NG = No good. The request has been denied. The message is valid but the request conflicts with current status.

RL = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

Input Message(s):

ABT:UMBIL
STP:UMBIL
RMV:UMBIL

Output Message(s):
RST: UMBIL

Input Appendix(es):

APP: RANGES

Other Manual(s):
235-105-110  System Maintenance Requirements and Tools
235-105-220  Corrective Maintenance

MCC Display Page(s):

1740,xxx,yyy (HOST UMBILICALS (1 - 10))
1741,xxx,yyy (HOST UMBILICALS (11 - 20))
RST:UTD

Software Release: 5E14 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Conditionally or unconditionally restores a universal tone decoder (UTD) board, in the local digital service unit, to service.

2. FORMAT

RST:UTD=a-b-c-d [,UCL];

3. EXPLANATION OF MESSAGE

If restored conditionally, the diagnostic will be run. All tests must pass before the unit will be restored to service. If restored unconditionally, no testing is performed.

UCL = Unconditionally restores without diagnosis.

a = Switching module (SM) number.

b = Local digital service unit (DSU) number (0).

c = Service group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

d = UTD number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

PF = Printout follows. Followed by the RST:UTD output message.

5. REFERENCES

Output Message(s):

RST:UTD

Input Appendix(es):

APP:RANGES
RST:UTG

Software Release: 5E14 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Conditionally or unconditionally restores a universal tone generator (UTG) board, in the local digital service unit, to service.

2. FORMAT

RST:UTG=a-b-c-d[,UCL];

3. EXPLANATION OF MESSAGE

If restored conditionally, the diagnostic will be run. All tests must pass before the unit will be restored to service. If restored unconditionally, no testing is performed.

UCL = Unconditionally restores without diagnosis.

a = Switching module (SM) number.

b = Local digital service unit (DSU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

c = Service group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

d = DSU board position number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

PF = Printout follows. Followed by the RST:UTG output message.

5. REFERENCES

Output Message(s):

RST:UTG

Input Appendix(es):

APP:RANGES
1. PURPOSE

Requests that an virtual input/output processor (VIOP) be restored to service.

If restored conditionally, an VIOP diagnostic will be run and must be all tests pass (ATP) before the unit will be restored to service. If restored unconditionally, no testing will be performed.

2. FORMAT

RST:VIOP=a[:UCL][,CONT];

3. EXPLANATION OF MESSAGE

CONT    = Restore only the VIOP.
           The default is to restore the VIOP and all associated virtual peripheral controllers.

UCL     = Restore unconditionally. Default is conditional restoration.

a       = Member number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

PF       = Printout follows. Followed by the RST:VIOP output message.

5. REFERENCES

Input Message(s):

RMV:VIOP

Input Appendix(es):

APP:RANGES

Other Manual(s):

235-105-220  Corrective Maintenance

MCC Display Page(s):

COMMON PROCESSOR
RST:VT15

Software Release: 5E16(1) and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE
Requests that a virtual tributary - level 1.5 (VT15) be restored to service.

2. FORMAT
RST:VT15=a-b-c-d-e-f-g[,UCL];

3. EXPLANATION OF MESSAGE

UCL = Restore unconditionally without first removing the VT15 circuit.

a = Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

b = Optical interface unit (OIU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

c = Protection group (PG) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

d = Optical carrier - level 3 (OC-3) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

e = Synchronous transport signal - level 1 (STS1) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

f = VT15 group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

g = VT15 member number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

NG = No good. The message form is valid, but the request conflicts with current status.

PF = Printout follows. Followed by the RST:VT15 output message.

RL = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

Input Message(s):

ABT:VT15
STP: VT15

Output Message(s):

RST: VT15

Input Appendix(es):

APP: RANGES

Other Manual(s):
235-105-110  System Maintenance Requirements and Tools
235-105-220  Corrective Maintenance

MCC Display Page(s):
1492  OIU STS1 STATUS
RST:VT1FAC

Software Release: 5E14 and later
Command Group: SM
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Requests that a digital networking unit - synchronous optical network (DNU-S) virtual tributary level 1 facility (VT1FAC) be restored to service.

WARNING: An unconditional restoration of a VT1FAC while the VT1FAC is out of service may preempt maintenance activity on the VT1FAC.

2. FORMAT

RST:VT1FAC=a-b-c-d-e-f-g[,UCL];

3. EXPLANATION OF MESSAGE

UCL = Restore unconditionally.

a = Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

b = Digital Networking Unit - SONET (DNU-S) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

c = Data group (DG) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

d = SONET Termination Equipment (STE) facility number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

e = Synchronous Transport Signal (STS) facility number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

f = Virtual tributary group (VTG) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

g = Virtual tributary member (VTM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

NG = No good. The message form is valid, but the request conflicts with current status.

PF = Printout follows. Followed by the RST:VT1FAC output message.
RL = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

Input Message(s):

ABT:VT1FAC
STP:VT1FAC

Output Message(s):

RST:VT1FAC

Input Appendix(es):

APP:RANGES

Other Manual(s):
235-105-110 System Maintenance Requirements and Tools
235-105-220 Corrective Maintenance

MCC Display Page(s):

1511 (DNUS STS MAINTENANCE)
RST:VTTY

Software Release: 5E16(2) and later
Command Group: AM
Application: 5,3B
Type: Input

1. PURPOSE

Unconditionally restores the specified virtual teletypewriter (VTTY) to service.

The virtual input/output processor (VIOP) and the virtual teletypewriter controller (VTTYC) must be in service before the VTTY can be restored.

VTTY is a subdevice of VTTYC. Restoring a VTTY by using \texttt{RST:VTTY=a;} has the same effect as using \texttt{RST:VTTY=a:UCL;}

2. FORMAT

\texttt{RST:VTTY=a;}

3. EXPLANATION OF MESSAGE

\texttt{a} = Member number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

\texttt{PF} = Printout follows. Followed by the RST:VTTY output message.

5. REFERENCES

Input Message(s):

\texttt{RMV:VIOP}
\texttt{RMV:VTYY}
\texttt{RMV:VTTYC}
\texttt{RST:VIOP}
\texttt{RST:VTTYC}

Input Appendix(es):

\texttt{APP:RANGES}

Other Manual(s):

235-105-220 Corrective Maintenance
RST:VTTYC

**Software Release:** 5E16(2) and later  
**Command Group:** AM  
**Application:** 5,3B  
**Type:** Input

### 1. PURPOSE

Conditionally or unconditionally restores a virtual teletypewriter controller (VTTYC) to service. If restored conditionally, a VTTYC diagnostic is run and must be all tests pass (ATP) before the unit is restored to service. If restored unconditionally, no testing is done on the unit to be restored.

The virtual input output processor (VIOP) must be in service before the VTTYC can be restored.

### 2. FORMAT

```
RST:VTTYC=a[:UCL][,CONT];
```

### 3. EXPLANATION OF MESSAGE

- **CONT** = Restores only the VTTYC. The default is to restore the VTTYC and all associated virtual teletypewriters.
- **UCL** = Unconditional restoration. The default is conditional restoration.
- **a** = Member number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

### 4. SYSTEM RESPONSE

**PF** = Printout follows. Followed by the RST:VTTYC output message.

### 5. REFERENCES

**Input Message(s):**

- RMV:VIOP
- RMV:VTTYC
- RST:VIOP

**Input Appendix(es):**

- APP:RANGES

**Other Manual(s):**

235-105-220 Corrective Maintenance
68. RTE
RTE:SMST

**Software Release:** 5E14 and later
**Command Group:** MAINT
**Application:** 5
**Type:** Input

1. **PURPOSE**

Requests that all output messages originating from the specified switching modules (SMs) be routed to the terminal at which this input message is entered in addition to other normal locations where such output would appear.

The switching module system test (SMST) routing can be assigned to only one terminal per SM. (If an SM is already assigned to a terminal for SMST routing, the SM cannot be assigned to any other terminal until it is released using RLS:SMST input). The SMST routing will not take effect if a message has "log only" or "discard" status. Refer to the CHG:LPS-MSGCLS input message and the OP:LPS input message.

2. **FORMAT**

```
RTE:SMST,SM=a[&&b];
```

3. **EXPLANATION OF MESSAGE**

<table>
<thead>
<tr>
<th>a</th>
<th>= Switching module (SM) number, or lower limit of a range of SM numbers.</th>
</tr>
</thead>
<tbody>
<tr>
<td>b</td>
<td>= Upper limit of a range of SM numbers.</td>
</tr>
</tbody>
</table>

4. **SYSTEM RESPONSE**

<table>
<thead>
<tr>
<th>NG</th>
<th>= No good. The SM is already assigned to another terminal.</th>
</tr>
</thead>
<tbody>
<tr>
<td>OK</td>
<td>= Good. The request was accepted and completed. The SM's output messages will be routed to the terminal where this input was entered.</td>
</tr>
<tr>
<td>RL</td>
<td>= Retry later. May also include:</td>
</tr>
<tr>
<td></td>
<td>- UNABLE TO SERVICE REQUEST = The receiving process is not running. Manually invoke HMimst process and try again.</td>
</tr>
</tbody>
</table>

5. **REFERENCES**

**Input Message(s):**

- CHG:LPS-MSGCLS
- OP:LPS
- OP:SMST
- RLS:SMST

**Output Message(s):**

- OP:SMST
1. PURPOSE
Requests that the call monitor alarm indicator be retired.

2. FORMAT

RTR:CALLMON,ALARM;

3. EXPLANATION OF MESSAGE
No variables.

4. SYSTEM RESPONSE

OK = Good. The request was accepted.

5. REFERENCES

Input Message(s):

INH:CALLMON
ALW:CALLMON
OP:CALLMON
SET:CALLMON
CLR:CALLMON

Output Message(s):

REPT:CALLMON-CMR
REPT:CALLMON-VTC
OP:CALLMON

Other Manual(s):
Where ‘x’ is the release-specific version of the document.

235-105-110 System Maintenance Requirements and Tools
235-105-210 Routine Operations and Maintenance

MCC Display Page(s):

116 (MISCELLANEOUS)
70. SCHED
1. PURPOSE

Schedules the time in which trunk automatic progression testing (APT) is to be run for a given 24-hour period. The starting time and duration of the test are expressed in hours and minutes on a 24-hour clock. These parameters are only in effect for one period of APT testing.

2. FORMAT

SCHED:APT[,TIME=a-b][,DUR=c][,TKGMN=d-e];

3. EXPLANATION OF MESSAGE

a = The hour after midnight when APT is to be started (0-23).
b = The minutes after the hour when APT is to be run (0-59).
c = Duration in hours that APT is to be run (0-8). When duration is not specified, or when specifying a duration of zero (0) hours, APT will not run. However, APT's schedule will be refreshed immediately from the switch database into application memory.
d = The trunk group on which to start the next APT testing.
e = The member number on which to start the next APT testing.

4. SYSTEM RESPONSE

PF = Printout follows. The request has been accepted and the parameters have been changed. Followed by a SCHED:APT output message.

RL = Retry later. The request was not accepted because APT is not currently executing.

?D = The request has been constructed incorrectly with errors in the starting time, duration, or trunk ID fields.

5. REFERENCES

Output Message(s):

SCHED:APT

Other Manual(s):
1. PURPOSE

Schedules the day, time, and duration for the full static office-dependent data (SODD) audit. Overlapping entries in the schedule are not allowed, but an entry that starts at the same time that another one ends is permissible.

2. FORMAT

SCHED:AUD=SODD, DAY=a, STARTTIME=b, DURATION=c;

3. EXPLANATION OF MESSAGE

a
= Run the full audit on a specified day. Valid value(s):
  MON = Monday.
  TUE = Tuesday.
  WED = Wednesday.
  THU = Thursday.
  FRI = Friday.
  SAT = Saturday.
  SUN = Sunday.
  ALL = All days.

b
= The hour the full SODD audit is to start in the form HH:MM [hour (0-23), minute (0-59)].

c
= Duration for which the full SODD audit is to run in the form HH:MM [hour (1-24), minute (0-59)]. Duration must be at least one hour. To schedule a continuous audit, STARTTIME should be set to 1-00, DURATION set to 24-00, and DAY set to ALL.

4. SYSTEM RESPONSE

PF
= Printout follows. Valid value is:
  - OP AUD=SODD SCHED MESSAGE FOLLOWS = Followed by an OP:AUD-SODD-SCH output message.

5. REFERENCES

Input Message(s):

ALW:AUD-SODD
INH:AUD-SODD
OP:AUD-ERRLOG
OP:AUD-SODD
STP:AUD-SODD
Output Message(s):

OP: AUD-SODD-SCH

Other Manual(s):
235-105-210  Routine Operations and Maintenance
1. PURPOSE

Requests a new automated system backup to be scheduled or requests all previously scheduled backups to be rescheduled. SCHED:BKUP adds backup entries to the system cron table file so that the backups can be automatically executed by the cron daemon process. Refer to OP:BKUP to display the currently scheduled backups and CLR:BKUP to unschedule a backup.

Format 1 is used to schedule an automated system backup to be run weekly or monthly by the cron daemon process.

Format 2 is used to reschedule all previously scheduled backups during a generic retrofit. SCHED:BKUP will delete all current automated system backup jobs from the cron table and reschedule all automated system backup jobs listed in the schedule file managed by the automated system backup processes. This format may also be used to reschedule backups if the system cron table file is corrupt.

This message will not allow a backup to be scheduled within 8 hours of a currently scheduled backup.

The automated system backup process will only execute one backup at a time. Care must be taken when scheduling both weekly and monthly backups. It is possible to schedule a weekly and monthly backup to run at the same time. If this occurs, the automated system backup process will only perform the first backup initiated by the cron process.

2. FORMAT


3. EXPLANATION OF MESSAGE

a = Interval. Valid value(s):
   WEEK = Weekly backup is to be scheduled.
   MONTH = Monthly backup is to be scheduled.

b = Day. If variable 'a' is equal to 'WEEK', then this variable is the day of the week. Valid value(s):
   0 = Sunday.
   1 = Monday.
   2 = Tuesday.
   3 = Wednesday.
   4 = Thursday.
   5 = Friday.
   6 = Saturday.

If variable 'a' is equal to 'MONTH', then this variable is the day of the month (1-31). The number of days in each month should be considered when scheduling a monthly backup. For example, not every month has 31 days. Therefore, a backup scheduled on the 31st day of the month will not run...
every month.

c = Time of day the backup is to begin in hours and minutes (hhmm) between 0000 and 2359. Example, 2200 is 10:00 PM.

Care should be taken when selecting the time that the backup will be run. It is possible for a backup to be skipped if scheduled during the time change into or out of daylight saving time (DST).

d = Backup option file name. This file must reside in the /no5text/bkup/autobkup directory. If a file name is not specified, the default backup option file name, bkup.opts, will be used. This variable must not be specified as a full or relative pathname.

4. SYSTEM RESPONSE

PF = Printout follows. Followed by the SCHED:BKUP output message.

5. REFERENCES

Input Message(s):

ALW: AUTOBKUP
CLR: BKUP
INH: AUTOBKUP
OP: BKUP
SET: BKUP
STP: AUTOBKUP

Output Message(s):

SCHED: BKUP

Other Manual(s):

235-105-210  Routine Operations and Maintenance Procedures
SCHED:ECDAUD

Software Release: 5E14 and later
Command Group: MAINT
Application: 5
Type: Input

1. PURPOSE

Request that the on-switch ECD audit be scheduled for automatic execution.

2. FORMAT

SCHED:ECDAUD:STARTTIME=a-b,{DAY=c,DATE=d};

3. EXPLANATION OF MESSAGE

a = The hour for the ECD audit to start in the form hh [hour (0-23)].
b = The minute for the ECD audit to start in the form mm [minute (0-59)].
c = The day of the week for the ECD audit to be run. Valid value(s):
   MON = Monday.
   TUE = Tuesday.
   WED = Wednesday.
   THU = Thursday.
   FRI = Friday.
   SAT = Saturday.
   SUN = Sunday.

Note: Variables ‘c’ and ‘d’ are mutually exclusive.

d = The day of the month for the ECD audit to be run. Valid value(s) 0-28.

Note: Variables ‘c’ and ‘d’ are mutually exclusive.

4. SYSTEM RESPONSE

PF = Printout follows. Followed by the SCHED:ECDAUD output message.

5. REFERENCES

Input Message(s):

STOP:ECDAUD
INH:ECDAUD
ALW:ECDAUD
EXC:ECDAUD
OP:ECDAUD
Output Message(s):

SCHED : ECDAUD

Other Manual(s):
235-100-125  System Description
235-105-210  Routine Operations and Maintenance Manual
SCHED:FACR

Software Release: 5E14 and later
Command Group: FHADM
Application: 5
Type: Input

1. PURPOSE

Requests that the feature activation counting and reconciliation (FACR) audit be scheduled for execution at a specific date and hour. All scheduled entries will be carried across a calendar year.

2. FORMAT

[1] SCHED:FACR:{OFC|UNOFC},TIME=a-b-c;

3. EXPLANATION OF MESSAGE

OFC = Request for an official run of the FACR audit.

UNOFC = Request for an unofficial run of the FACR audit. The output from the audit is restricted for use by the service provider only.

APPL= = Request to run a FACR special application audit.

a = Month of the requested execution time (1-12).

b = Day of the requested execution time (1-31).

c = Hour of the requested execution time (0-5 or 18-23).

4. SYSTEM RESPONSE

PF = Printout follows. Followed by the SCHED:FACR output message.

5. REFERENCES

Input Message(s):

OP:FACR
DEL:FACR

Output Message(s):

SCHED:FACR

Other Manual(s):
235-040-100  OA&M Planning Guide
235-100-125  System Description
SCHED:GRC

Software Release: 5E14 and later
Command Group: RCV
Application: 5
Type: Input

1. PURPOSE

Requests that a global recent change (GRC) job be rescheduled. This input message allows the user to change the options specified when the GRC job was scheduled. If the GRC job has been split, SECT must be provided.

RDATE and RTIME should be specified together. If RDATE is provided without RTIME, RTIME defaults to midnight. If RDATE and RTIME are not provided or RTIME is specified without RDATE, the default is the current date and time.

2. FORMAT

SCHED:GRC,NAME=a[,SECT=b],MODE=c[,VERBOSE=d][,MAXERR=e][,RDATE=ff-ff-ff,RTIME=gg-gg];

3. EXPLANATION OF MESSAGE

a = GRC name (up to 10 characters).

b = GRC section number.

c = Mode of job to be rescheduled. Valid value(s):
UPDATE = Update operation.
BACKOUT = Backout operation.

 d = Print one-line logging messages on the receive-only printer (ROP) for each update or backout of a line for this GRC job. Valid value(s):
Y = Enables the verbose option.
N = Disables the verbose option.

e = Allow a maximum of this many errors.

f = Release date in the form month-day-year. (month of the year [01-12], day of the month [01-31], last two digits of year [00-99]).

g = Release time, in the form hour-minute [hour (00-23), minute (00-59)].

4. SYSTEM RESPONSE

PF = Printout follows. A GRC:STATUS output message will follow indicating the beginning of the operation.

NG = No good. The request was denied. A GRC:ERROR output message will provide the reason for the failure.
5. REFERENCES

Input Message(s):

CLR: GRC
EXC: GRC
STP: GRC

Output Message(s):

GRC: ERROR
GRC: STATUS

Other Manual(s):

Where 'x' is the release-specific version of the document.

235-070-100 Administration and Engineering Guidelines
235-118-251 Recent Change Procedures
235-118-25x Recent Change Reference
71. SET
SET:ALINK

Software Release: 5E14 and later  
Command Group: SM  
Application: 5  
Type: Input

1. PURPOSE

Requests that an out-of-service line unit model 2 (LU2) or a line unit model 3 (LU3) A-link (ALINK) be manually set to a specific state. This allows the A-link either to be placed into a deferred maintenance state in which it has no effect on system indicators, or to be returned to the normal maintenance state.

2. FORMAT

SET:ALINK=a-b-c-d-e,{DEFR|RMVD};

3. EXPLANATION OF MESSAGE

DEFR  = Deferred. Place the link into deferred maintenance state.

RMVD  = Removed. Place the link into standard out-of-service maintenance state.

a  = Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

b  = Line unit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

c  = Grid number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

d  = Grid board number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

e  = Link number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

NG  = No good. The request has been denied. The message syntax is valid, but the request could not be processed. May also include:
- SM DOES NOT EXIST
- SM UNEQUIPPED
- UNIT DOES NOT EXIST

PF  = Printout follows. Followed by the SET:ALINK output message.

RL  = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

Output Message(s):
SET: ALINK

Input Appendix(es):

APP: RANGES

MCC Display Page(s):

(LINE UNIT CONCENTRATOR)
1. PURPOSE

Requests that the alarm retire mode (ALMMDE) be set to either automatic or manual. Format 1 is for the local office. Format 2 is for remote switching module (RSM), optical remote module (ORM), or two-mile remote module (TRM) sites with the alarm output option. Format 3 is for remote peripheral sites with a remote alarm section (RAS).

2. FORMAT

[1] SET:ALMMDE=a;
[2] SET:ALMMDE=a,RBPSC,SM=b;
[3] SET:ALMMDE=a,RAS,SITE=c;

3. EXPLANATION OF MESSAGE

AUTO = Automatic retire mode. At the local office, audible alarms will retire automatically in eight seconds or when manually retired--whichever occurs first. At an RSM, ORM, TRM, or remote peripheral site, audible alarms will retire automatically in five seconds to five minutes or when manually retired--whichever occurs first.

MAN = Manual retire mode. At the local office, critical and major audibles will sound until manually retired. At a control/display terminal, use the alarm retire function key to retire alarms. At RSM, ORM, TRM, or remote peripheral sites, the critical, major, and minor audibles will sound until manually retired by pressing the alarm retire button on the remote alarm and status panel.

a = New alarm retire mode (AUTO or MAN).

b = Switching module (SM) number of the module containing the MSU and the remote alarm status circuit (ASC). Refer to the APP: RANGES appendix in the Appendixes section of the Input Messages manual.

c = Remote peripheral site number. Refer to the APP: RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

NG = No good. The request was not accepted and the retire mode remains unchanged or option not available.

PF = Printout follows. Followed by the SET:ALMMDE output message.

RL = Retry later. System is in overload.

5. REFERENCES
Output Message(s):

REPT: ALMMDE
SET: ALMMDE

Input Appendix(es):

APP: RANGES

Other Manual(s):
235-105-220  Corrective Maintenance

MCC Display Page(s):

105,106 (BLDG/POWER & ALARM CNTRLS)
1400 (RSM BLDG/PWR ALARMS)
1420 (RAS ALARMS)
SET:AMA-CONFIG

Software Release: 5E14 and later
Command Group: AMA
Application: 5
Type: Input

1. PURPOSE

Requests that an automatic message accounting (AMA) partition be equipped or unequipped for either the ST1 or ST2 data stream.

Note: After this message is entered, make backup tapes to prevent loss of the updated AMA configuration files in the event of a reload from tape.

2. FORMAT

SET:AMA:CONFIG:{ST1|ST2},PART=a,{EQUIP[,NOINIT]|UNEQUIP};

3. EXPLANATION OF MESSAGE

EQUIP = Make the partition accessible to the data stream indicated.
NOINIT = Do not initialize the partition.
ST1 = AMA data to be written to the ST1 data stream.
ST2 = AMA data to be written to the ST2 data stream.
UNEQUIP = Make the partition inaccessible to the data stream indicated.
a = Partition number.

4. SYSTEM RESPONSE

IP = In progress. No errors or inconsistencies were found in the input data.
PF = Printout follows. An error or inconsistency was found in the input data.
RL = Retry later. Either the process could not attach to a protected application segment, or another SET:AMA-CONFIG process is in progress.

5. REFERENCES

Input Message(s):

OP:AMA-CONFIG

Output Message(s):

REPT:AMA-CONFIG
SET:AMA-CONTROL

Software Release: 5E14 and later
Command Group: AMA
Application: 5
Type: Input

1. PURPOSE

Requests that one or two of the automatic message accounting (AMA) control file parameters be set.

2. FORMAT

SET:AMA:CONTROL[:ST1|:ST2],{OFFICEID=a|EXPDATE=b|START=c-d|STOP=e-f
|MT=g|OPTION=h|HOCPSWD=i|BACKUPSWD=j|TAPEID="k"};

3. EXPLANATION OF MESSAGE

ST1 = Send AMA data to the ST1 data stream.
ST2 = Send AMA data to the ST2 data stream.

Note: For a single data stream office, the stream does not have to be specified as either an ST1 or ST2. However, for a dual stream office, the stream must be specified as either an ST1 or ST2.

a = Office identification number (six digits).
b = Number of days (1-99) until AMA tape expires.
c = Hour of start time.
d = Minute of start time.
e = Hour of stop time.
f = Minute of stop time.
g = Default tape drive number for the automatic tape writing process.
h = Option. Valid value(s):
    TAPE = Tape option.
    TP = Teleprocessing option.
    AMADNS1 = AMA data networking services phase 1.
i = Host collector (HOC) password (ten digits).
j = Backup HOC password (ten digits).
k = Tape ID (seventeen characters or fewer).

Note: Refer to Local Switching System General Requirements (LSSGR) for rules defining the construction of a tape identifier.

Notice that double quotes must be used to enclose the tape ID variable in the input message. It is
recommended that lower case letters not be used to compose the tape ID variable.

4. SYSTEM RESPONSE

NG = No good. Data stream checks failed.

PF = Printout follows. Request accepted. The option(s) selected are being updated. When the request is completed, the contents of the AMA control file will be output by the REPT:AMA:CONTL output message. If less than 17 characters are supplied, trailing blanks will be used.

RL = Retry later. A tape or teleprocessing session is currently in progress. Try again after the session terminates.

5. REFERENCES

Input Message(s):

ALW:AMA-AUTOST
ALW:AMA-SESSION
INH:AMA-AUTOST
INH:AMA-SESSION
OP:AMA-CONTROLF
OP:AMA-STREAM

Output Message(s):

REPT:AMA-CONT
SET:AMA-STREAM

Software Release: 5E14 and later
Command Group: AMA
Application: 5
Type: Input

1. PURPOSE

Requests that the automatic message accounting (AMA) office stream configuration be set.

2. FORMAT

SET:AMA:STREAM,{ST1|ST2|DUAL};

3. EXPLANATION OF MESSAGE

DUAL  = Send all AMA data to both ST1 and ST2 data streams.
ST1   = Send AMA data to the ST1 data stream.
ST2   = Send AMA data to the ST2 data stream.

4. SYSTEM RESPONSE

NG     = No Good. A value of ST2 is not allowed if AMA data networking services processing is active.
OK     = Good. Data stream indicator was successfully set up.
RL     = Retry later. Process could not attach to a protected application segment, or a disk copy of the
data stream indicator could not be opened or written.
?I     = Invalid data stream value was specified in the input message.

5. REFERENCES

Input Message(s):

OP:AMA-STREAM
SET:ARC

Software Release: 5E14 and later
Command Group: NMOC
Application: 5
Type: Input

1. PURPOSE

Requests that an alternate route cancellation (ARC) control at an office be set or modified. The ARC control is initiated or modified for routine or all levels of precedence.

This message is valid only for defense switched network (DSN) switches.

2. FORMAT

SET:ARC,OFFICE=a,TYPE=b,TRAFFIC=c[,RTNANN=d];

3. EXPLANATION OF MESSAGE

a = Office name.

b = Control type to be applied. Valid value(s):
   CANF = Cancel from. Cancel calls that terminate in a given adjacent office but could not complete with the direct route. This control restricts traffic from overflowing to its alternates.
   CANT = Cancel to. Cause traffic to skip its alternate route through the given office. This control forces calls that do not terminate at the given office to skip the direct trunk groups to that office.

c = Precedence level subject to CANF or CANT control. Valid value(s):
   ALL = All levels of precedence, for example, flash override, flash, immediate, priority, and routine.
   RTN = Routine traffic only.

Note: When a precedence call is blocked as a result of ARC control, the announcement treatment is always the blocked precedence announcement.

d = Routine announcement (RTNANN) treatment to be given if blocking occurs for routine (RTN) traffic only (refer to variable 'c'). Valid value(s):
   EANN1 = Emergency announcement 1.
   EANN2 = Emergency announcement 2.
   NCA = No circuit announcement (default).

4. SYSTEM RESPONSE

NG = No good. May also include:
   - INVALID REQUEST = This system is not equipped to handle the request entered.
PF = Printout follows. Followed by the SET:ARC output message.

RL = Retry later. May also include:
   - RESOURCE SHORTAGE = The necessary resources are not available.

5. REFERENCES

Input Message(s):
   CLR:ARC
   OP:ARC

Output Message(s):
   SET:ARC

Other Manual(s):
235-900-113  Product Specification

MCC Display Page(s):
   (DSN NM EXCEPTION)
   (OVERLOAD)
SET:ASPTQ-A

Software Release: 5E14 only
Command Group: CCS
Application: 5
Type: Input

1. PURPOSE

Set the value of a parameter for an advanced services platform (ASP) 0.1 test query message. Some fields of certain parameters (the digit related parameters with the optional INFO keyword) have default values that are used if the optional field is not set. If the parameter is presently set, the present values of the optional fields are maintained. If the parameter is not presently set, the default values given below are used for the optional fields.

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Default</th>
</tr>
</thead>
<tbody>
<tr>
<td>numbering plan</td>
<td>ISDN</td>
</tr>
<tr>
<td>presentation restriction</td>
<td>Allowed</td>
</tr>
<tr>
<td>screening indicator</td>
<td>Network provided</td>
</tr>
<tr>
<td>nature of number:</td>
<td></td>
</tr>
<tr>
<td>for called numbers</td>
<td>National</td>
</tr>
<tr>
<td>for calling numbers</td>
<td>Unique national</td>
</tr>
<tr>
<td>for charge numbers</td>
<td>Calling party automatic number identification (ANI) national</td>
</tr>
</tbody>
</table>

2. FORMAT

[1] SET:ASPTQ,USERID, {DN=a|BRI=a-b|TGID=c|PFID=d};


[3] SET:ASPTQ, CLDPTY=f [,INFO=g-h];


[6] SET:ASPTQ, TRIGTYPE=k;

[7] SET:ASPTQ, CHGNBR=l [,INFO=m-h];

[8] SET:ASPTQ, CLGPTY=n [,INFO=o-h-p-q];

[9] SET:ASPTQ, CLGBGID=r-s-t;

[10] SET:ASPTQ, CHGTYPE=u;

SET:ASPTQ,ACCCD=x;

SET:ASPTQ,COLLADR=y[,INFO=z-h];

SET:ASPTQ,COLLDIGS=a1;

SET:ASPTQ,VERTSRVCD=b1;

SET:ASPTQ,TCMARK=c1;

SET:ASPTQ,ORIGCLDPTY=d1[,INFO=e1-h-p-q];

SET:ASPTQ,RDIRPTY=f1[,INFO=l-h-m-n];

SET:ASPTQ,RDIRINFO=g1-h1-i1;

SET:ASPTQ,AMP[,TIME=j1-k1-l1-m1-n1];

SET:ASPTQ,CLEARCS=o1;

SET:ASPTQ,FAILCAUSE=p1;

SET:ASPTQ,GLOBTITLE=q1;

SET:ASPTQ,GENNAME=u1;

SET:ASPTQ,TIMER=v1;

SET:ASPTQ,GENLIST=w1-x1-o-h-p;

SET:ASPTQ,CLOSECAUSE=y1;

SET:ASPTQ,NOTIFYIND=z1;

SET:ASPTQ,BUSYCAUSE=a2-b2-c2;
3. EXPLANATION OF MESSAGE

**NOTE:** An "*" indicates a default value to be used when the value is not set by the user and is not presently set. All fields are given for each parameter even if a particular field has been previously described.

**AMAMSMENT** = AMA measurement parameter.

- **a** = Directory number.
- **b** = Service profile ID (20 digits maximum).
- **c** = Trunk group ID. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
- **d** = Private facility ID. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
- **e** = Bearer capability. Valid value(s):
  - 56KBPS = 56 kilobits per second.
  - 64KBPS = 64 kilobits per second.
  - AUDIO = 3.1 kHz audio.
  - SPEECH = Speech.
- **f** = Called party ID digits (15 digits maximum).
- **g** = Nature of number for called type. Valid value(s):
  - 950 = 950+ call.
  - CUTTHRU = No address present cut through to carrier.
  - INTL = International number.
  - INTOPR = International number, operator requested.
  - NA = Not applicable.
  - NADOPR = No address present, operator requested.
  - *NAT = National (significant) number.
  - NATOPR = National number, operator requested.
SSNBR = Subscriber number.
SSOPR = Subscriber number, operator requested.
TESTLN = Test line test code.

h = Numbering plan. Valid value(s):
*ISDN = ISDN numbering plan.
NA = Unknown or not applicable.
PRIV = Private numbering plan.

NOTE: Default values ("**") do not apply to the generic address list parameter therefore must be set by the user.

i = Called party station type number (0-99).

j = LATA digits (3 digits maximum).

k = Trigger criteria type. Valid value(s):
2X = nxx.
6X = nxx-xxxx.
CCNP6X = Country code npa-nxx-xxxx.
CUACCESS = Customized access.
FEATACT = Feature activator.
AFR = Automatic flexible routing.
N11 = n11.
NP0X = npa-n.
NP1X = npa-nx.
NP2X = npa-nxx.
NP3X = npa-nxx-x.
NP4X = npa-nxx-xx.
NP5X = npa-nxx-xxx.
NP6X = npa-nxx-xxxx.
NPA = npa.
OCLDPTYBSY = Origination called party busy.
OHIMMED = Off-hook immediate.
OHDELAY = Off-hook delay.
ONOANS = Origination no answer.
SETPRI = Channel setup PRI.
SHRDIO = Shared inter office trunk.
TBUSY = Termination busy.
TNOANS = Termination no answer.
TRMATMPT = Termination attempt.
VERTSC = Vertical service code.

l = Charge number digits (10 digits maximum).

m = Nature of number for charge type. Valid value(s):
APN = Action pointer number.
DNAANI = Called party ANI not included.
DNATANI = Called party ANI; national number.
DSSAN1 = Called party ANI; subscriber number.
NAANI = ANI not available or not provided.
*NATANI = Calling party ANI national number.
SSANI = Calling party ANI; subscriber number.

n = Calling party ID digits (15 digits maximum).

o = Nature of number for calling type. Valid value(s):
  INTL = Unique international number.
  NA = Not applicable or unknown.
  *NAT = Unique national (significant) number.
  NUINTL = Non-unique international number.
  NUNAT = Non-unique national number.
  NUNSSBR = Non-unique subscriber number.
  SSBNBR = Unique subscriber number.
  TESTLN = Test line test code.

**NOTE:** Default values ("*"") do not apply to the generic address list parameter therefore must be set by the user.

p = Presentation restriction indicator. Valid value(s):
  *ALW = Presentation allowed.
  RST = Presentation restricted.
  UNA = Number unavailable.

**NOTE:** Default values ("*"") do not apply to the generic address list parameter therefore must be set by the user.

q = Screening indicator. Valid value(s):
  NETP = Network provided.
  UPNOT = User provided not screened.
  UPPASS = User provided passed screening.

r = Calling party business group ID (range of 0-16777215).

s = Attendant status. Valid value(s):
  ATTEND = Attendant line.
  NOATTEND = No attendant or no indication.

t = Party selector. Valid value(s):
  CGPN = Calling party number.
  RDPN = Redirecting number.

u = Charge party station type number (0-99).

v = Primary carrier ID (4 digits maximum).

w = Primary carrier selection. Valid value(s):
  CALL = Selected carrier identification code presubscribed and input by calling party.
  NCALL = Selected carrier identification code presubscribed and not input by calling party.
<table>
<thead>
<tr>
<th>Abbreviation</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>NIND</td>
<td>No indication.</td>
</tr>
<tr>
<td>NKCALL</td>
<td>Selected carrier identification code presubscribed and no indication of whether input by calling party.</td>
</tr>
<tr>
<td>NPRE</td>
<td>Selected carrier identification code not presubscribed and input by calling party.</td>
</tr>
<tr>
<td>x</td>
<td>Access code digits (5 digits maximum).</td>
</tr>
<tr>
<td>y</td>
<td>Collected address information digits (15 digits maximum).</td>
</tr>
<tr>
<td>z</td>
<td>Nature of number for called type. Valid value(s):</td>
</tr>
<tr>
<td>950</td>
<td>950+ call.</td>
</tr>
<tr>
<td>CUTTHRU</td>
<td>No address present cut through to carrier.</td>
</tr>
<tr>
<td>INTL</td>
<td>International number.</td>
</tr>
<tr>
<td>INTOPR</td>
<td>International number, operator requested.</td>
</tr>
<tr>
<td>NA</td>
<td>Not applicable.</td>
</tr>
<tr>
<td>NADOPR</td>
<td>No address present, operator requested.</td>
</tr>
<tr>
<td>*NAT</td>
<td>National (significant) number.</td>
</tr>
<tr>
<td>NATOPR</td>
<td>National number, operator requested.</td>
</tr>
<tr>
<td>SSNBR</td>
<td>Subscriber number.</td>
</tr>
<tr>
<td>SSOPR</td>
<td>Subscriber number, operator requested.</td>
</tr>
<tr>
<td>TESTLN</td>
<td>Test line test code.</td>
</tr>
<tr>
<td>a^1</td>
<td>Collected digits (32 digits maximum).</td>
</tr>
<tr>
<td>b^1</td>
<td>Vertical service code digits (10 digits maximum).</td>
</tr>
<tr>
<td>c^1</td>
<td>Traveling class mark digits (2 digits maximum).</td>
</tr>
<tr>
<td>d^1</td>
<td>Original called party ID digits (15 digits maximum).</td>
</tr>
<tr>
<td>e^1</td>
<td>Nature of number for calling type. Valid value(s):</td>
</tr>
<tr>
<td>INTL</td>
<td>Unique international number.</td>
</tr>
<tr>
<td>NA</td>
<td>Not applicable or unknown.</td>
</tr>
<tr>
<td>*NAT</td>
<td>Unique national (significant) number.</td>
</tr>
<tr>
<td>NUINTL</td>
<td>Non-unique international number.</td>
</tr>
<tr>
<td>NUUNAT</td>
<td>Non-unique national number.</td>
</tr>
<tr>
<td>NUSSNBR</td>
<td>Non-unique subscriber number.</td>
</tr>
<tr>
<td>SSNBR</td>
<td>Unique subscriber number.</td>
</tr>
<tr>
<td>TESTLN</td>
<td>Test line test code.</td>
</tr>
<tr>
<td>f^1</td>
<td>Redirecting party ID digits (15 digits maximum).</td>
</tr>
<tr>
<td>g^1</td>
<td>Original redirecting reason. Valid value(s):</td>
</tr>
<tr>
<td>BSY</td>
<td>User busy.</td>
</tr>
<tr>
<td>NOR</td>
<td>No reply.</td>
</tr>
<tr>
<td>UNC</td>
<td>Unconditional.</td>
</tr>
<tr>
<td>UNK</td>
<td>Unknown or not available.</td>
</tr>
<tr>
<td>h^1</td>
<td>Redirecting reason. Valid value(s):</td>
</tr>
<tr>
<td>BSY</td>
<td>User busy.</td>
</tr>
</tbody>
</table>
\( i \) = Redirection count (value of 0-15 only).

\( j \) = Year. Valid value(s):
- CURRENT = Current year.
- LAST = Last year.
- NEXT = Next year.

\( k \) = Month. Valid value(s):
- JAN = January.
- FEB = February.
- MAR = March.
- APR = April.
- MAY = May.
- JUN = June.
- JUL = July.
- AUG = August.
- SEP = September.
- OCT = October.
- NOV = November.
- DEC = December.

\( l \) = Date (1 - 31).

\( m \) = Hour (0 - 23).

\( n \) = Minute. Valid value(s):
- 00 = 0 minutes
- 15 = 15 minutes
- 30 = 30 minutes
- 45 = 45 minutes

\( o \) = Clear cause. Valid value(s):
- ABAN = Abandon.
- ABORT = Abort.
- CAPFAIL = Capability failure.
- CHBUSY = Channels busy.
- CLDPTYANS = Called party answered.
- FAIL = Failure.
- ICRESP = Invalid caller response.
- INVCD = Invalid code.
- IPTMOUT = IP timeout.
- ISDNT0 = ISDN timeout.
- NORM = Normal.
- PROTERR = Protocol error.
- RSCAN = Resource canceled.
RSRCNA = Resource not available.
RTNOTSUP = Resource type not supported.
SSERVINVK = Supervisor service invoked.
STRCANC = Send to resource canceled.
TASKREF = Task refused.
TMOUT = Timeout.
TMPFAIL = Temporary failure.

\(p^1\)
= Failure cause. Valid value(s):
HIGH = Rate too high.
UNAVAILABLE = Unavailable resource.

\(q^1\)
= Global title address digits (always 10 digits).

\(u^1\)
= Generic name presentation. Valid value(s):
ALW = Presentation allowed.
BLKTGL = Blocking toggle.
INH = Presentation restricted.

\(v^1\)
= Time to wait for a response from the service control point (SCP) (1-10 seconds).

\(w^1\)
= Generic address signal digits (15 digits maximum).

\(x^1\)
= Generic address type of address. Valid value(s):
DIALEDNBR = Dialed number.
DESTNBR = Destination number.
SUPFAILSCR = Supplemental user provided calling address. Failed screening.
SUPNOTSCR = Supplemental user provided calling address. Not screened.
COMPLETNBR = Completion number.

\(y^1\)
= Close cause. Valid value(s):
TERM = Call terminated.
CMPL = Events and reports completed.
UCOMM = Unexpected communication.
ANSW = Called party answered.
CALLFWD = Call forwarded.

\(z^1\)
= Notification indicator. Valid value(s):
NOTIFY = Switch notification message.
REQ = Switch request message.

\(a^2\)
= Busy cause coding standard. Valid value(s):
CCITT = International Telecommunication Union - Telecommunication Standardization Sector (ITU-TS) (formerly CCITT) standard.
**NETWK** = Network specific.

b^2 = Busy cause general location. Valid value(s):
- **INTNTWK** = International network.
- **LOCTRL** = Local interface controlled by signaling link.
- **LOCUNKN** = Location unknown.
- **PUBLU** = Public network serving local user.
- **PUBRU** = Public network serving remote user.
- **PVTLU** = Private network serving local user.
- **PVTRU** = Private network serving remote user.
- **TRNTWK** = Transit network.
- **USER** = User.

c^2 = Busy cause value. Valid value(s):
- **ADRINC** = Address incomplete.
- **AUNKPARM** = Parameter non-existent or not implemented - accepted.
- **BCNOAUTH** = Bearer capability not authorized.
- **BCNOIMPL** = Bearer capability not implemented.
- **BCUNAV** = Bearer capability not presently available.
- **CALLABN** = Caller abandon.
- **CALLREJ** = Call rejected.
- **DESTNORTE** = No route to destination.
- **DESTOUT** = Destination out of order.
- **DUNKPARM** = Parameter non-existent or not implemented - discarded.
- **INFODISC** = Access information discarded.
- **INTWK** = Interworking.
- **INVRSP** = Improper caller response.
- **NBRCHG** = Number changed.
- **NOCKT** = No circuit available.
- **NOUSRSP** = No user responding.
- **NRM** = Normal.
- **NRMCLR** = Normal clearing.
- **NSRVOPT** = Service/option not implemented.
- **NTWNORTE** = No route to specified transit network.
- **NTWKOUT** = Reserved for network out of order.
- **PARMINV** = Parameter with invalid coding.
- **PRCLERR** = Protocol error.
- **RDIRCTR** = Redirection counter exceeded.
- **SWCHCONG** = Switching equipment congestion.
- **TMPFAIL** = Temporary failure.
- **RQCHANUNV** = Requested channel not available.
- **RSRC** = Resource unavailable.
- **SRVOPT** = Service/option not available.
- **UNALCNBR** = Unallocated number.
- **UNKMSG** = Msg type non-existent or not implemented.
- **USRALRT** = User alerting, no answer.
- **USRBSY** = User busy.

d^2 = Translation type (range of 0-255).
\[ e \] = AMA measurement start date (month, day, year) in the form mm-dd-yy.

**NOTE:** Year is only the last digit of the year.

\[ f \] = AMA measurement start time (hour, minutes, seconds, tenths of seconds) in the form hh-mm-ss-t.

\[ g \] = AMA measurement connection duration (minutes, seconds, tenths of seconds) in the form mmmmm-ss-t.

\[ h \] = Time guard. Valid value(s):
   - GUARD = Timing guard allowed.
   - NOGUARD = No timing guard.

\[ i \] = Origination point code consisting of a nine digit character string. Refer to the APP:POINT-CODE appendix in the Appendixes section of the Input Messages manual.

\[ j \] = Busy type. Valid value(s):
   - OFFRD = Call can be offered.
   - NOTOFFRD = Call cannot be offered.

\[ k \] = Disconnect cause. Valid value(s):
   - FAREND = Far end.

\[ l \] = Dial tone multi-frequency (DTMF) digits detected (4 digits maximum).

### 4. SYSTEM RESPONSE

**NG**

- **EXCEEDED xx DIGIT MAXIMUM** = Too many digits entered. The allowed range for this parameter is 0-xx.
- **EXCEEDED xx DIGIT MAXIMUM FOR SPID** = Too many digits entered for the SPID field for this parameter. The allowed range is 0-xx.
- **INVALID DIGITS** = The entered digits are invalid (0-9, *, and # are allowed).
- **INVALID DN DIGITS** = The entered DN digits are invalid (0-9, *, and # are allowed).
- **OPC IS INVALID** = The entered digits are either invalid (0-9 are allowed), the number of digits entered is incorrect (there must be nine digits), or the point code was not provisioned in the office.
- **xx DIGITS REQUIRED** = This parameter requires xx digits.
- **xx DIGITS REQUIRED FOR DN** = The DN field for this parameter requires xx digits.

**NO**

- **FEATURE NOT AVAILABLE** = The ASP 0.1 feature must be purchased before attempting to set an ASP 0.1 test query parameter.

**OK**

- **Good. The request was accepted.**

**RL**

- **INTERNAL ERROR** = An internal error was encountered and processing could not continue.
5. REFERENCES

Input Message(s):

CLR: ASPTQ
OP: ASPTQ
TST: ASPTQ

Output Message(s):

OP: ASPTQ
TST: ASPTQ

Input Appendix(es):

APP: RANGES

Other Manual(s):
235-190-126  Advanced Services Platform
SET:ASPTQ-B

Software Release: 5E15 only
Command Group: CCS
Application: 5
Type: Input

1. PURPOSE

Set the value of a parameter for an advanced services platform (ASP) 0.1 test query message. Some fields of certain parameters (the digit related parameters with the optional INFO keyword) have default values that are used if the optional field is not set. If the parameter is presently set, the present values of the optional fields are maintained. If the parameter is not presently set, the default values given below are used for the optional fields.

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<tr>
<td>numbering plan</td>
<td>ISDN</td>
</tr>
<tr>
<td>presentation restriction</td>
<td>Allowed</td>
</tr>
<tr>
<td>screening indicator</td>
<td>Network provided</td>
</tr>
<tr>
<td>nature of number:</td>
<td></td>
</tr>
<tr>
<td></td>
<td>National</td>
</tr>
<tr>
<td></td>
<td>Unique national</td>
</tr>
<tr>
<td></td>
<td>Calling party automatic number identification (ANI) national</td>
</tr>
</tbody>
</table>

2. FORMAT

[1] SET:ASPTQ,USERID,{DN=a|BRI=a-b|TGID=c|PFID=d};
[3] SET:ASPTQ,CLDPTY=f[,INFO=g-h];
[6] SET:ASPTQ,TRIGTYPE=k;
[7] SET:ASPTQ,CHGNBR=l[,INFO=m-h];
[8] SET:ASPTQ,CLGPTY=n[,INFO=o-h-p-q];
[9] SET:ASPTQ,CLGBGID=r-s-t;
[10] SET:ASPTQ,CGHTYPE=u;
[12] SET:ASPTQ,ACCCD=x;
[13] SET:ASPTQ,COLLADR=y[,INFO=z-h];
[14] SET:ASPTQ,COLLDIGS=a1;
[15] SET:ASPTQ,VERTSRVCD=b1;
[16] SET:ASPTQ,TCMARK=c1;
[17] SET:ASPTQ,ORIGCLDPTY=d1[,INFO=e1-h-p-q];
3. EXPLANATION OF MESSAGE

Note: An "*" indicates a default value to be used when the value is not set by the user and is not presently set. All fields are given for each parameter even if a particular field has been previously described.

AMAMSMENT = AMA measurement parameter.

a = Directory number.

b = Service profile ID (20 digits maximum).

c = Trunk group ID. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

d = Private facility ID. Refer to the APP:RANGES appendix in the Appendixes section of the Input
Messages manual.

- **e** = Bearer capability. Valid value(s):
  - **56KBPS** = 56 kilobits per second.
  - **64KBPS** = 64 kilobits per second.
  - **AUDIO** = 3.1 kHz audio.
  - **SPEECH** = Speech.

- **f** = Called party ID digits (15 digits maximum).

- **g** = Nature of number for called type. Valid value(s):
  - **950** = 950+ call.
  - **CUTTHRU** = No address present cut through to carrier.
  - **INTL** = International number.
  - **INTOPR** = International number, operator requested.
  - **NA** = Not applicable.
  - **NADOPR** = No address present, operator requested.
  - ***NAT** = National (significant) number.
  - **NATOPR** = National number, operator requested.
  - **SSNBR** = Subscriber number.
  - **SSOPR** = Subscriber number, operator requested.
  - **TESTLN** = Test line test code.

- **h** = Numbering plan. Valid value(s):
  - ***ISDN** = ISDN numbering plan.
  - **NA** = Unknown or not applicable.
  - **PRIV** = Private numbering plan.
  
  **Note:** Default values (“**”) do not apply to the generic address list parameter therefore must be set by the user.

- **i** = Called party station type number (0-99).

- **j** = LATA digits (3 digits maximum).

- **k** = Trigger criteria type. Valid value(s):
  - **2X** = nxx.
  - **6X** = nxx-xxxx.
  - **CCNP6X** = Country code npa-nxx-xxxx.
  - **CUACCESS** = Customized access.
  - **FEACT** = Feature activator.
  - **AFR** = Automatic flexible routing.
  - **N11** = n11.
  - **NP0X** = npa-n.
  - **NP1X** = npa-nx.
  - **NP2X** = npa-nxx.
  - **NP3X** = npa-nxx-x.
  - **NP4X** = npa-nxx-xx.
  - **NP5X** = npa-nxx-xxx.
  - **NP6X** = npa-nxx-xxxx.
  - **NPA** = npa.
OCLDPTYBSY = Origination called party busy.
OHIMMED = Off-hook immediate.
OHDELAY = Off-hook delay.
ONOANS = Origination no answer.
SETPRI = Channel setup PRI.
SHRDIO = Shared inter office trunk.
TBUSY = Termination busy.
TNOANS = Termination no answer.
TRMATMPT = Termination attempt.
TRUNKGRP = Trunk group.
VERTSC = Vertical service code.

l = Charge number digits (10 digits maximum).

m = Nature of number for charge type. Valid value(s):
   APN = Action pointer number.
   DNAANI = Called party ANI not included.
   DNATANI = Called party ANI; national number.
   DSSANI = Called party ANI; subscriber number.
   NAANI = ANI not available or not provided.
   *NATANI = Calling party ANI national number.
   SSANI = Calling party ANI; subscriber number.

n = Calling party ID digits (15 digits maximum).
o = Nature of number for calling type. Valid value(s):
   INTL = Unique international number.
   NA = Not applicable or unknown.
   *NAT = Unique national (significant) number.
   NUINTL = Non-unique international number.
   NUNAT = Non-unique national number.
   NUSSNBR = Non-unique subscriber number.
   SSNBR = Unique subscriber number.
   TESTLN = Test line test code.
   Note: Default values (*** ) do not apply to the generic address list parameter therefore must be set by the user.

p = Presentation restriction indicator. Valid value(s):
   *ALW = Presentation allowed.
   RST = Presentation restricted.
   UNA = Number unavailable.
   Note: Default values (*** ) do not apply to the generic address list parameter therefore must be set by the user.

q = Screening indicator. Valid value(s):
   *NETP = Network provided.
   UPNOT = User provided not screened.
   UPPASS = User provided passed screening.
r = Calling party business group ID (range of 0-16777215).

s = Attendant status. Valid value(s):
  ATTEND = Attendant line.
  NOATTEND = No attendant or no indication.

t = Party selector. Valid value(s):
  CGPN = Calling party number.
  RDPN = Redirecting number.

u = Charge party station type number (0-99).

v = Primary carrier ID (4 digits maximum).

w = Primary carrier selection. Valid value(s):
  CALL = Selected carrier identification code presubscribed and input by calling party.
  NCALL = Selected carrier identification code presubscribed and not input by calling party.
  NIND = No indication.
  NKCALL = Selected carrier identification code presubscribed and no indication of whether input by calling party.
  NPRE = Selected carrier identification code not presubscribed and input by calling party.

x = Access code digits (5 digits maximum).

y = Collected address information digits (15 digits maximum).

z = Nature of number for called type. Valid value(s):
  950 = 950+ call.
  CUTTHRU = No address present cut through to carrier.
  INTL = International number.
  INTOPR = International number, operator requested.
  NA = Not applicable.
  NADOPR = No address present, operator requested.
  *NAT = National (significant) number.
  NATOPR = National number, operator requested.
  SSNBR = Subscriber number.
  SSOPR = Subscriber number, operator requested.
  TESTLN = Test line test code.

a = Collected digits (32 digits maximum).

b = Vertical service code digits (10 digits maximum).

c = Traveling class mark digits (2 digits maximum).

d = Original called party ID digits (15 digits maximum).

e = Nature of number for calling type. Valid value(s):
  INTL = Unique international number.
  NA = Not applicable or unknown.
  *NAT = Unique national (significant) number.
NUINTL = Non-unique international number.
NUNAT = Non-unique national number.
NUSSNBR = Non-unique subscriber number.
SSNBR = Unique subscriber number.
TESTLN = Test line test code.

f
  = Redirecting party ID digits (15 digits maximum).

g
  = Original redirecting reason. Valid value(s):
    BSY = User busy.
    NOR = No reply.
    UNC = Unconditional.
    UNK = Unknown or not available.

h
  = Redirecting reason. Valid value(s):
    BSY = User busy.
    NOR = No reply.
    UNC = Unconditional.
    UNK = Unknown or not available.

i
  = Redirection count (value of 0-15 only).

j
  = Year. Valid value(s):
    CURRENT = Current year.
    LAST = Last year.
    NEXT = Next year.

k
  = Month. Valid value(s):
    JAN = January.
    FEB = February.
    MAR = March.
    APR = April.
    MAY = May.
    JUN = June.
    JUL = July.
    AUG = August.
    SEP = September.
    OCT = October.
    NOV = November.
    DEC = December.

l
  = Date (1 - 31).

m
  = Hour (0 - 23).

n
  = Minute. Valid value(s):
    00 = 0 minutes
    15 = 15 minutes
    30 = 30 minutes
45 = 45 minutes

\[a\] = Clear cause. Valid value(s):
ABAN = Abandon.
ABORT = Abort.
CAPFAIL = Capability failure.
CHBUSY = Channels busy.
CLDPTYANS = Called party answered.
FAIL = Failure.
ICRESP = Invalid caller response.
INVCD = Invalid code.
IPTMOUT = IP timeout.
ISDNTO = ISDN timeout.
NORM = Normal.
PROTERR = Protocol error.
RSCAN = Resource canceled.
RSRCNA = Resource not available.
RTNOTSUP = Resource type not supported.
SSERVINVK = Supervisor service invoked.
STRCANC = Send to resource canceled.
TASKREF = Task refused.
TMOUT = Timeout.
TMPFAIL = Temporary failure.

\[b\] = Failure cause. Valid value(s):
HIGH = Rate too high.
UNAVAILABLE = Unavailable resource.

\[c\] = Global title address digits (always 10 digits).

\[d\] = Generic name presentation. Valid value(s):
ALW = Presentation allowed.
BLKTGL = Blocking toggle.
INH = Presentation restricted.

\[e\] = Time to wait for a response from the service control point (SCP) (1-10 seconds).

\[f\] = Generic address signal digits (15 digits maximum).

\[g\] = Generic address type of address. Values are:
DIALEDNBR = Dialed number.
DESTNBR = Destination number.
SUPFAILSCR = Supplemental user provided calling address. Failed screening.
SUPNOTSCR = Supplemental user provided calling address. Not screened.
COMPLETNBR = Completion number.

\[h\] = Close cause. Valid value(s):
TERM = Call terminated.
CMPL = Events and reports completed.
UCOMM = Unexpected communication.
ANSW = Called party answered.
CALLFWD = Call forwarded.

z
= Notification indicator. Valid value(s):
NOTIFY = Switch notification message.
REQ = Switch request message.

a
= Busy cause coding standard. Valid value(s):
CCITT = International Telecommunication Union - Telecommunication Standardization Sector (ITU-TS) (formerly CCITT) standard.
NETWK = Network specific.

b
= Busy cause general location. Valid value(s):
INTNTWK = International network.
LOCTRL = Local interface controlled by signaling link.
LOCUNKN = Location unknown.
PUBLU = Public network serving local user.
PUBRU = Public network serving remote user.
PVTLU = Private network serving local user.
PVTTRU = Private network serving remote user.
TRNTWK = Transit network.
USER = User.

c
= Busy cause value. Valid value(s):
ADRINC = Address incomplete.
AUNKPARM = Parameter non-existent or not implemented - accepted.
BCNOAUTH = Bearer capability not authorized.
BCNOIMPL = Bearer capability not implemented.
BCUNAV = Bearer capability not presently available.
CALLABN = Caller abandon.
CALLREJ = Call rejected.
DESTNORTE = No route to destination.
DESTOUT = Destination out of order.
DUNKPARM = Parameter non-existent or not implemented - discarded.
INFODISCD = Access information discarded.
INTWK = Interworking.
INVRSP = Improper caller response.
NBRCHG = Number changed.
NOCKT = No circuit available.
NOUSRSP = No user responding.
NRM = Normal.
NRMCLR = Normal clearing.
NSRVOPT = Service/option not implemented.
NTWKNORTE = No route to specified transit network.
NTWKOUT = Reserved for network out of order.
PARMINV = Parameter with invalid coding.
PRCLERR = Protocol error.
RDIRCTRL = Redirection counter exceeded.
SWCHCONG  = Switching equipment congestion.
TMPFAIL    = Temporary failure.
RQCHANUNV  = Requested channel not available.
RSRC       = Resource unavailable.
SRVOPT     = Service/option not available.
UNALCNBR   = Unallocated number.
UNKMSG     = Msg type non-existent or not implemented.
USRALRT    = User alerting, no answer.
USRBSY     = User busy.

d2        = Translation type (range of 0-255).
e2        = AMA measurement start date (month, day, year) in the form mm-dd-y.

Note: Year is only the last digit of the year.

f2        = AMA measurement start time (hour, minutes, seconds, tenths of seconds) in the form hh-mm-ss-t.
g2        = AMA measurement connection duration (minutes, seconds, tenths of seconds) in the form mmmmm-ss-t.
h2        = Time guard. Valid value(s):
GUARD     = Timing guard allowed.
NOGUARD   = No timing guard.

i2        = Origination point code consisting of a nine digit character string. Refer to the APP:POINT-CODE appendix in the Appendixes section of the Input Messages manual.

j2        = Busy type. Valid value(s):
OFFRD     = Call can be offered.
NOTOFFRD  = Call cannot be offered.

k2        = Disconnect cause. Valid value(s):
FAREND    = Far end.

l2        = Dial tone multi-frequency (DTMF) digits detected (4 digits maximum).
m2        = This parameter is associated with a secured or propriety feature. Refer to the SECURED/PROPRIETARY FEATURES portion of the INTRODUCTION section of this manual.
n2        = This parameter is associated with a secured or propriety feature. Refer to the SECURED/PROPRIETARY FEATURES portion of the INTRODUCTION section of this manual.
o2        = This parameter is associated with a secured or propriety feature. Refer to the SECURED/PROPRIETARY FEATURES portion of the INTRODUCTION section of this manual.
p2        = This parameter is associated with a secured or propriety feature. Refer to the SECURED/PROPRIETARY FEATURES portion of the INTRODUCTION section of this manual.
q2        = This parameter is associated with a secured or propriety feature. Refer to the
SECURED/PROPRIETARY FEATURES portion of the INTRODUCTION section of this manual.

\( r^2 \) = This parameter is associated with a secured or propriety feature. Refer to the SECURED/PROPRIETARY FEATURES portion of the INTRODUCTION section of this manual.

\( s^2 \) = This parameter is associated with a secured or propriety feature. Refer to the SECURED/PROPRIETARY FEATURES portion of the INTRODUCTION section of this manual.

\( t^2 \) = Signaling Platform. Valid value(s):
0 = Common Network Interface (CNI) Platform
1 - 192 = Global Switching Module (GSM) Number

4. SYSTEM RESPONSE

NG = No good. Valid value(s):
- EXCEEDED \( \times \times \) DIGIT MAXIMUM = Too many digits entered. The allowed range for this parameter is 0-\( \times \times \).
- EXCEEDED \( \times \times \) DIGIT MAXIMUM FOR SPID = Too many digits entered for the SPID field for this parameter. The allowed range is 0-\( \times \times \).
- INVALID DIGITS = The entered digits are invalid (0-9, *, and # are allowed).
- INVALID DN DIGITS = The entered DN digits are invalid (0-9, *, and # are allowed).
- OPC IS INVALID = The entered digits are either invalid (0-9 are allowed), the number of digits entered is incorrect (there must be nine digits), or the point code was not provisioned in the office.
- PLATFORM IS INVALID = The entered signaling platform is invalid (0 or 1 - 192 allowed.)
- \( \times \times \) DIGITS REQUIRED = This parameter requires \( \times \times \) digits.
- \( \times \times \) DIGITS REQUIRED FOR DN = The DN field for this parameter requires \( \times \times \) digits.

NO = The request is not allowed. Valid value(s):
- FEATURE NOT AVAILABLE = The ASP 0.1 feature must be purchased before attempting to set an ASP 0.1 test query parameter. This response can also be received when attempting to set a parameter that is itself restricted by an additional feature purchase.

OK = Good. The request was accepted.

RL = Retry later. Valid value(s):
- INTERNAL ERROR = An internal error was encountered and processing could not continue.

5. REFERENCES

Input Message(s):
CLR:ASPTQ
OP:ASPTQ
TST:ASPTQ
Output Message(s):

OP: ASPTQ  
TST: ASPTQ  

Input Appendix(es):

APP: RANGES  

Other Manual(s):
235-190-126  Advanced Services Platform
SET:ASPTQ-C

Software Release: 5E16(1) only
Command Group: CCS
Application: 5
Type: Input

1. PURPOSE

Set the value of a parameter for an advanced services platform (ASP) 0.1 test query message. Some fields of certain parameters (the digit related parameters with the optional INFO keyword) have default values that are used if the optional field is not set. If the parameter is presently set, the present values of the optional fields are maintained. If the parameter is not presently set, the default values given below are used for the optional fields.

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2. FORMAT

[1] SET:ASPTQ,USERID,(DN=a|BRI=a-b|TGID=c|PFID=d);
[3] SET:ASPTQ,CLDPTY=f[,INFO=g-h];
[6] SET:ASPTQ,TRIGTYPE=k;
[7] SET:ASPTQ,CHGNBR=l[,INFO=m-h];
[8] SET:ASPTQ,CLGPTY=n[,INFO=o-h-p-q];
[9] SET:ASPTQ,CLGBGID=r-s-t;
[10] SET:ASPTQ,CHGTYPE=u;
[12] SET:ASPTQ,ACCCD=x;
[13] SET:ASPTQ,COLLADR=y[,INFO=z-h];
[14] SET:ASPTQ,COLLDIGS=a1;
[15] SET:ASPTQ,VERTSRVCD=b1;
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[17] SET:ASPTQ,ORIGCLDPTY=d1[,INFO=e1-h-p-q];
3. EXPLANATION OF MESSAGE

Note: An "*" indicates a default value to be used when the value is not set by the user and is not presently set. All fields are given for each parameter even if a particular field has been previously described.

AMAMSMENT = AMA measurement parameter.

a = Directory number.
b = Service profile ID (20 digits maximum).
c = Trunk group ID. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
d = Private facility ID. Refer to the APP:RANGES appendix in the Appendixes section of the Input
Messages manual.

e  = Bearer capability. Valid value(s):
56KBPS  = 56 kilobits per second.
64KBPS  = 64 kilobits per second.
AUDIO   = 3.1 kHz audio.
SPEECH  = Speech.

f  = Called party ID digits (15 digits maximum).

g  = Nature of number for called type. Valid value(s):
950     = 950+ call.
CUTTHRU = No address present cut through to carrier.
INTL    = International number.
INTOPR  = International number, operator requested.
NA      = Not applicable.
NADOPR  = No address present, operator requested.
*NAT    = National (significant) number.
NATOPR  = National number, operator requested.
SSNBR   = Subscriber number.
SSOPR   = Subscriber number, operator requested.
TESTLN  = Test line test code.

h  = Numbering plan. Valid value(s):
*ISDN   = ISDN numbering plan.
NA      = Unknown or not applicable.
PRIV    = Private numbering plan.

Note: Default values ("*") do not apply to the generic address list parameter therefore must be set by the user.

i  = Called party station type number (0-99).

j  = LATA digits (3 digits maximum).

k  = Trigger criteria type. Valid value(s):
2X      = nxx.
6X      = nxx-xxxx.
CCNP6X   = Country code npa-nxx-xxxx.
CUACCESS = Customized access.
FEATACT  = Feature activator.
AFT     = Automatic flexible routing.
N11     = n11.
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TNOANS = Termination no answer.
TRMATMPT = Termination attempt.
TRUNKGRP = Trunk group.
VERTSC = Vertical service code.
ZEROPLUS = Zero plus.
ZEROMINUS = Zero minus.

l = Charge number digits (10 digits maximum).

m = Nature of number for charge type. Valid value(s):
   APN = Action pointer number.
   DNAANI = Called party ANI not included.
   DNATANI = Called party ANI; national number.
   DSSANI = Called party ANI; subscriber number.
   NAANI = ANI not available or not provided.
   *NATANI = Calling party ANI national number.
   SSANI = Calling party ANI; subscriber number.

n = Calling party ID digits (15 digits maximum).

o = Nature of number for calling type. Valid value(s):
   INTL = Unique international number.
   NA = Not applicable or unknown.
   *NAT = Unique national (significant) number.
   NUINTL = Non-unique international number.
   NUNAT = Non-unique national number.
   NUSSNBR = Non-unique subscriber number.
   SSNBR = Unique subscriber number.
   TESTLN = Test line test code.

Note: Default values (**) do not apply to the generic address list parameter therefore
      must be set by the user.

p = Presentation restriction indicator. Valid value(s):
   *ALW = Presentation allowed.
   RST = Presentation restricted.
   UNA = Number unavailable.

Note: Default values (**) do not apply to the generic address list parameter therefore
      must be set by the user.

q = Screening indicator. Valid value(s):
   *NETP = Network provided.
   UPNOT = User provided not screened.
UPPASS = User provided passed screening.

r = Calling party business group ID (range of 0-16777215).

s = Attendant status. Valid value(s):
ATTEND = Attendant line.
NOATTEND = No attendant or no indication.

= Party selector. Valid value(s):
CGPN = Calling party number.
RDPN = Redirecting number.

u = Charge party station type number (0-99).

v = Primary carrier ID (4 digits maximum).

w = Primary carrier selection. Valid value(s):
CALL = Selected carrier identification code presubscribed and input by calling party.
NCALL = Selected carrier identification code presubscribed and not input by calling party.
NIND = No indication.
NKCALL = Selected carrier identification code presubscribed and no indication of whether input by calling party.
NPRE = Selected carrier identification code not presubscribed and input by calling party.

x = Access code digits (5 digits maximum).

y = Collected address information digits (15 digits maximum).

z = Nature of number for called type. Valid value(s):
950 = 950+ call.
CUTTHRU = No address present cut through to carrier.
INTL = International number.
INTOPR = International number, operator requested.
NA = Not applicable.
NADOPR = No address present, operator requested.
*NAT = National (significant) number.
NATOPR = National number, operator requested.
SSNBR = Subscriber number.
SOPR = Subscriber number, operator requested.
TESTLN = Test line test code.

a = Collected digits (32 digits maximum).

b = Vertical service code digits (10 digits maximum).

c = Traveling class mark digits (2 digits maximum).

d = Original called party ID digits (15 digits maximum).

e = Nature of number for calling type. Valid value(s):
INTL = Unique international number.
NA = Not applicable or unknown.
*NAT = Unique national (significant) number.
NUINTL = Non-unique international number.
NUNAT = Non-unique national number.
NUSSNBR = Non-unique subscriber number.
SSNBR = Unique subscriber number.
TESTLN = Test line test code.

f = Redirecting party ID digits (15 digits maximum).

g = Original redirecting reason. Valid value(s):
BSY = User busy.
NOR = No reply.
UNC = Unconditional.
UNK = Unknown or not available.

h = Redirecting reason. Valid value(s):
BSY = User busy.
NOR = No reply.
UNC = Unconditional.
UNK = Unknown or not available.

i = Redirection count (value of 0-15 only).

j = Year. Valid value(s):
CURRENT = Current year.
LAST = Last year.
NEXT = Next year.

k = Month. Valid value(s):
JAN = January.
FEB = February.
MAR = March.
APR = April.
MAY = May.
JUN = June.
JUL = July.
AUG = August.
SEP = September.
OCT = October.
NOV = November.
DEC = December.

l = Date (1 - 31).

m = Hour (0 - 23).

n = Minute. Valid value(s):
00 = 0 minutes
15 = 15 minutes
30 = 30 minutes
45 = 45 minutes

-o1 = Clear cause. Valid value(s):
  ABAN = Abandon.
  ABORT = Abort.
  CAPFAIL = Capability failure.
  CHBUSY = Channels busy.
  CLDPTYANS = Called party answered.
  FAIL = Failure.
  ICRESP = Invalid caller response.
  INVCD = Invalid code.
  IPTMOUT = IP timeout.
  ISDNT0 = ISDN timeout.
  NORM = Normal.
  PROTERR = Protocol error.
  RSCAN = Resource canceled.
  RSRCNA = Resource not available.
  RTNOTSUP = Resource type not supported.
  SSERVINVK = Supervisor service invoked.
  STRCANC = Send to resource canceled.
  TASKREF = Task refused.
  TMOUT = Timeout.
  TMPFAIL = Temporary failure.

-p1 = Failure cause. Valid value(s):
  HIGH = Rate too high.
  UNAVAILABLE = Unavailable resource.

-q1 = Global title address digits (always 10 digits).

-u1 = Generic name presentation. Valid value(s):
  ALW = Presentation allowed.
  BLKTGL = Blocking toggle.
  INH = Presentation restricted.

-v1 = Time to wait for a response from the service control point (SCP) (1-10 seconds).

-w1 = Generic address signal digits (15 digits maximum).

-x1 = Generic address type of address. Values are:
  DIALEDNBR = Dialed number.
  DESTNBR = Destination number.
  SUPFAILSCR = Supplemental user provided calling address. Failed screening.
  SUPNOTSCR = Supplemental user provided calling address. Not screened.
  COMPLETNBR = Completion number.
y\(^1\) = Close cause. Valid value(s):
    TERM = Call terminated.
    CMPL = Events and reports completed.
    UCOMM = Unexpected communication.
    ANSN = Called party answered.
    CALLFWD = Call forwarded.

z\(^1\) = Notification indicator. Valid value(s):
    NOTIFY = Switch notification message.
    REQ = Switch request message.

a\(^2\) = Busy cause coding standard. Valid value(s):
    CCITT = International Telecommunication Union - Telecommunication Standardization Sector (ITU-TS) (formerly CCITT) standard.
    NETWK = Network specific.

b\(^2\) = Busy cause general location. Valid value(s):
    INTNTWK = International network.
    LOCTRL = Local interface controlled by signaling link.
    LOCUNKN = Location unknown.
    PUBLU = Public network serving local user.
    PUBRU = Public network serving remote user.
    PVTLU = Private network serving local user.
    PVTRU = Private network serving remote user.
    TRNTWK = Transit network.
    USER = User.

c\(^2\) = Busy cause value. Valid value(s):
    ADRINC = Address incomplete.
    AUNKPARM = Parameter non-existent or not implemented - accepted.
    BCNQAUTH = Bearer capability not authorized.
    BCNOIMPL = Bearer capability not implemented.
    BCUNAV = Bearer capability not presently available.
    CALLABN = Caller abandon.
    CALLREJ = Call rejected.
    DESTNORTE = No route to destination.
    DESTOUT = Destination out of order.
    DUNKPARM = Parameter non-existent or not implemented - discarded.
    INFODISCD = Access information discarded.
    INTWK = Interworking.
    INVRSP = Improper caller response.
    NBRCHG = Number changed.
    NOCKT = No circuit available.
    NOUSRSP = No user responding.
    NRM = Normal.
    NRMCLR = Normal clearing.
    NSRVOPT = Service/option not implemented.
    NTWKNORTE = No route to specified transit network.
    NTWKOUT = Reserved for network out of order.
PARMINV = Parameter with invalid coding.
PRCLERR = Protocol error.
RDICTRX = Redirection counter exceeded.
SWCHCONG = Switching equipment congestion.
TMPFAIL = Temporary failure.
RQCHANUNV = Requested channel not available.
RSRC = Resource unavailable.
SRVOPT = Service/option not available.
UNALCNBR = Unallocated number.
UNKMSG = Msg type non-existent or not implemented.
USRALRT = User alerting, no answer.
USRBAY = User busy.

d\textsuperscript{2} = Translation type (range of 0-255).

e\textsuperscript{2} = AMA measurement start date (month, day, year) in the form mm-dd-y.

Note: Year is only the last digit of the year.

f\textsuperscript{2} = AMA measurement start time (hour, minutes, seconds, tenths of seconds) in the form hh-mm-ss-t.

g\textsuperscript{2} = AMA measurement connection duration (minutes, seconds, tenths of seconds) in the form mmmmm-ss-t.

h\textsuperscript{2} = Time guard. Valid value(s):
GUARD = Timing guard allowed.
NOGUARD = No timing guard.

i\textsuperscript{2} = Origination point code consisting of a nine digit character string. Refer to the APP:POINT-CODE appendix in the Appendices section of the Input Messages manual.

j\textsuperscript{2} = Busy type. Valid value(s):
OFFRD = Call can be offered.
NOTOFFRD = Call cannot be offered.

k\textsuperscript{2} = Disconnect cause. Valid value(s):
FAREND = Far end.

l\textsuperscript{2} = Dial tone multi-frequency (DTMF) digits detected (4 digits maximum).

m\textsuperscript{2} = This parameter is associated with a secured or propriety feature. Refer to the SECURED/PROPRIETARY FEATURES portion of the INTRODUCTION section of this manual.

n\textsuperscript{2} = This parameter is associated with a secured or propriety feature. Refer to the SECURED/PROPRIETARY FEATURES portion of the INTRODUCTION section of this manual.

o\textsuperscript{2} = This parameter is associated with a secured or propriety feature. Refer to the SECURED/PROPRIETARY FEATURES portion of the INTRODUCTION section of this manual.
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= Signaling Platform. Valid value(s):
0 = Common Network Interface (CNI) Platform
1 - 192 = Global Switching Module (GSM) Number

4. SYSTEM RESPONSE

NG = No good. Valid value(s):
- EXCEEDED xx DIGIT MAXIMUM = Too many digits entered. The allowed range for this parameter is 0-xx.
- EXCEEDED xx DIGIT MAXIMUM FOR SPID = Too many digits entered for the SPID field for this parameter. The allowed range is 0-xx.
- INVALID DIGITS = The entered digits are invalid (0-9, *, and # are allowed).
- INVALID DN DIGITS = The entered DN digits are invalid (0-9, *, and # are allowed).
- OPC IS INVALID = The entered digits are either invalid (0-9 are allowed), the number of digits entered is incorrect (there must be nine digits), or the point code was not provisioned in the office.
- PLATFORM IS INVALID = The entered signaling platform is invalid (0 or 1 - 192 allowed).
- xx DIGITS REQUIRED = This parameter requires xx digits.
- xx DIGITS REQUIRED FOR DN = The DN field for this parameter requires xx digits.

NO = The request is not allowed. Valid value(s):
- FEATURE NOT AVAILABLE = The ASP 0.1 feature must be purchased before attempting to set an ASP 0.1 test query parameter. This response can also be received when attempting to set a parameter that is itself restricted by an additional feature purchase.

OK = Good. The request was accepted.

RL = Retry later. Valid value(s):
- INTERNAL ERROR = An internal error was encountered and processing could not continue.

5. REFERENCES

Input Message(s):
CLR:ASPTQ
OP: ASPTQ
TST: ASPTQ

Output Message(s):
OP: ASPTQ
TST: ASPTQ

Input Appendix(es):
APP: RANGES

Other Manual(s):
235-190-126  Advanced Services Platform
1. PURPOSE

Set the value of a parameter for an advanced services platform (ASP) 0.1 test query message.

Some fields of certain parameters (the digit related parameters with the optional INFO keyword) have default values that are used if the optional field is not set. If the parameter is presently set, the present values of the optional fields are maintained. If the parameter is not presently set, the default values given below are used for the optional fields.

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Default</th>
</tr>
</thead>
<tbody>
<tr>
<td>numbering plan</td>
<td>ISDN</td>
</tr>
<tr>
<td>presentation restriction</td>
<td>Allowed</td>
</tr>
<tr>
<td>screening indicator</td>
<td>Network provided</td>
</tr>
<tr>
<td>nature of number:</td>
<td></td>
</tr>
<tr>
<td></td>
<td>National</td>
</tr>
<tr>
<td></td>
<td>Unique national</td>
</tr>
<tr>
<td></td>
<td>Calling party automatic number identification (ANI) national</td>
</tr>
</tbody>
</table>

Format 36 is assoicated with a secured or proprietary feature. Refer to the SECURED/PROPRIETARY FEATURES portion of the INTRODUCTION section of this manual.

2. FORMAT

[1] SET:ASPTQ,USERID,(DN=a|BRI=a-b|TGID=c|PFID=d);


[3] SET:ASPTQ,CLDPTY=f[,INFO=g-h];


[6] SET:ASPTQ,TRIGTYPE=k;

[7] SET:ASPTQ,CHGNBR=l[,INFO=m-h];

[8] SET:ASPTQ,CLGPTY=n[,INFO=o-h-p-q];

[9] SET:ASPTQ,CLGBGID=r-s-t;

[10] SET:ASPTQ,CHGTYPE=u;

[12]  SET:ASPTQ,ACCCD=x;

[13]  SET:ASPTQ,COLLADR=y[,INFO=z-h];

[14]  SET:ASPTQ,COLLDIGS=a1;

[15]  SET:ASPTQ,VERTSRVCD=b1;

[16]  SET:ASPTQ,TCMARK=c1;

[17]  SET:ASPTQ,ORIGCLDPTY=d1[,INFO=e1-h-p-q];

[18]  SET:ASPTQ,RDIRPTY=f1[,INFO=l-h-m-n];

[19]  SET:ASPTQ,RDIRINFO=g1-h1-i1;

[20]  SET:ASPTQ,AMP[,TIME=j1-k1-l1-m1-n1];

[21]  SET:ASPTQ,CLEARCS=o1;

[22]  SET:ASPTQ,FAILCAUSE=p1;

[23]  SET:ASPTQ,GLOBTITLE=q1;

[24]  SET:ASPTQ,GENNAME=u1;

[25]  SET:ASPTQ,TIMER=v1;

[26]  SET:ASPTQ,GENLIST=w1-x1-o-h-p;

[27]  SET:ASPTQ,CLOSECAUSE=y1;

[28]  SET:ASPTQ,NOTIFYIND=z1;

[29]  SET:ASPTQ,BUSYCAUSE=a2-b2-c2;
3. EXPLANATION OF MESSAGE

| AMAMSMENT | = AMA measurement parameter. |
| a | = Directory number. |
| b | = Service profile ID (20 digits maximum). |
| c | = Trunk group ID. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual. |
| d | = Private facility ID. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual. |
| e | = Bearer capability. Valid value(s): |
| 56KBPS | = 56 kilobits per second. |
| 64KBPS | = 64 kilobits per second. |
| AUDIO | = 3.1 kHz audio. |
| SPEECH | = Speech. |
| f | = Called party ID digits (15 digits maximum). |
| g | = Nature of number for called type. Valid value(s): |
| 950 | = 950+ call. |
| CUTTHRU | = No address present cut through to carrier. |
INTL = International number.
INTOPR = International number, operator requested.
NA = Not applicable.
NADOPR = No address present, operator requested.
NAT = National (significant) number (default value).
NATOPR = National number, operator requested.
SSNBR = Subscriber number.
SSOPR = Subscriber number, operator requested.
TESTLN = Test line test code.

\[ \text{h} \] = Numbering plan. Valid value(s):
ISDN = ISDN numbering plan (default value).
NA = Unknown or not applicable.
PRIV = Private numbering plan.

\[ \text{i} \] = Called party station type number (0-99).

\[ \text{j} \] = LATA digits (3 digits maximum).

\[ \text{k} \] = Trigger criteria type. Valid value(s):
2X = nxx.
6X = nxx-xxxx.
CCNP6X = Country code npa-nxx-xxxx.
CUACCESS = Customized access.
FEATACT = Feature activator.
AFR = Automatic flexible routing.
N11 = n11.
NP0X = npa-n.
NP1X = npa-nx.
NP2X = npa-nxx.
NP3X = npa-nxx-x.
NP4X = npa-nxx-xx.
NP5X = npa-nxx-xxx.
NP6X = npa-nxx-xxxx.
NPA = npa.
OCLDPTYBSY = Origination called party busy.
OHIMMED = Off-hook immediate.
OHDELAY = Off-hook delay.
ONOANS = Origination no answer.
SETPRI = Channel setup PRI.
SHRDIO = Shared inter office trunk.
TBUSY = Termination busy.
TNOANS = Termination no answer.
TRMATMPT = Termination attempt.
TRUNKGRP = Trunk group.
VERISC = Vertical service code.
ZEROMINUS = Zero minus.
ZEROPLUS = Zero plus.

\[ \text{l} \] = Charge number digits (10 digits maximum).
m = Nature of number for charge type. Valid value(s):
   APN = Action pointer number.
   DNAANI = Called party ANI not included.
   DNATANI = Called party ANI; national number.
   DSSANI = Called party ANI; subscriber number.
   NAANI = ANI not available or not provided.
   NATANI = Calling party ANI national number (default value).
   SSANI = Calling party ANI; subscriber number.

n = Calling party ID digits (15 digits maximum).

o = Nature of number for calling type. Valid value(s):
   INTL = Unique international number.
   NA = Not applicable or unknown.
   NAT = Unique national (significant) number (default value).
   NUINTL = Non-unique international number.
   NUNAT = Non-unique national number.
   NUSSNBR = Non-unique subscriber number.
   SSNBR = Unique subscriber number.
   TESTLN = Test line test code.

p = Presentation restriction indicator. Valid value(s):
   ALW = Presentation allowed (default value).
   RST = Presentation restricted.
   UNA = Number unavailable.

q = Screening indicator. Valid value(s):
   NETP = Network provided (default value).
   UPNOT = User provided not screened.
   UPPASS = User provided passed screening.

r = Calling party business group ID (range of 0-16777215).

s = Attendant status. Valid value(s):
   ATTEND = Attendant line.
   NOATTEND = No attendant or no indication.

t = Party selector. Valid value(s):
   CGPN = Calling party number.
   RDPN = Redirecting number.

u = Charge party station type number (0-99).

v = Primary carrier ID (4 digits maximum).

w = Primary carrier selection. Valid value(s):
   CALL = Selected carrier identification code presubscribed and input by calling party.
   NCALL = Selected carrier identification code presubscribed and not input by calling party.
NIND  = No indication.
NKCALL  = Selected carrier identification code presubscribed and no indication of whether input by calling party.
NPRE  = Selected carrier identification code not presubscribed and input by calling party.

x  = Access code digits (5 digits maximum).
y  = Collected address information digits (15 digits maximum).
z  = Nature of number for called type. Valid value(s):
   950  = 950+ call.
   CUTTHRU  = No address present cut through to carrier.
   INTL  = International number.
   INTOPR  = International number, operator requested.
   NA  = Not applicable.
   NADOPR  = No address present, operator requested.
   NAT  = National (significant) number (default value).
   NATOPR  = National number, operator requested.
   SSNBR  = Subscriber number.
   SSOPR  = Subscriber number, operator requested.
   TESTLN  = Test line test code.

a\l  = Collected digits (32 digits maximum). (default value)
b\l  = Vertical service code digits (10 digits maximum).
c\l  = Traveling class mark digits (2 digits maximum).
d\l  = Original called party ID digits (15 digits maximum).
e\l  = Nature of number for calling type. Valid value(s):
   INTL  = Unique international number.
   NA  = Not applicable or unknown.
   NAT  = Unique national (significant) number (default value).
   NUINTL  = Non-unique international number.
   NUNAT  = Non-unique national number.
   NUSSNBR  = Non-unique subscriber number.
   SSNBR  = Unique subscriber number.
   TESTLN  = Test line test code.

f\l  = Redirecting party ID digits (15 digits maximum).
g\l  = Original redirecting reason. Valid value(s):
   BSY  = User busy.
   NOR  = No reply.
   UNC  = Unconditional.
   UNK  = Unknown or not available.

h\l  = Redirecting reason. Valid value(s):
   BSY  = User busy.
NOR = No reply.
UNC = Unconditional.
UNK = Unknown or not available.

\( i^1 \) = Redirection count (value of 0-15 only).

\( j^1 \) = Year. Valid value(s):
CURRENT = Current year.
LAST = Last year.
NEXT = Next year.

\( k^1 \) = Month. Valid value(s):
JAN = January.
FEB = February.
MAR = March.
APR = April.
MAY = May.
JUN = June.
JUL = July.
AUG = August.
SEP = September.
OCT = October.
NOV = November.
DEC = December.

\( l^1 \) = Date (1 - 31).

\( m^1 \) = Hour (0 - 23).

\( n^1 \) = Minute. Valid value(s):
00 = 0 minutes
15 = 15 minutes
30 = 30 minutes
45 = 45 minutes

\( o^1 \) = Clear cause. Valid value(s):
ABAN = Abandon.
ABORT = Abort.
CAPFAIL = Capability failure.
CHBUSY = Channels busy.
CLDPTYANS = Called party answered.
FAIL = Failure.
ICRESP = Invalid caller response.
INVCD = Invalid code.
IPTMOUT = IP timeout.
ISDNTO = ISDN timeout.
NORM = Normal.
PROTERR = Protocol error.
RSCAN = Resource canceled.
RSRCNA = Resource not available.
RTNOTSUP = Resource type not supported.
SSERVINVK = Supervisor service invoked.
STRCANC = Send to resource canceled.
TASKREF = Task refused.
TMOUT = Timeout.
TMPFAIL = Temporary failure.

p\textsuperscript{1} = Failure cause. Valid value(s):
HIGH = Rate too high.
UNAVAILABLE = Unavailable resource.

q\textsuperscript{1} = Global title address digits (always 10 digits).

u\textsuperscript{1} = Generic name presentation. Valid value(s):
ALW = Presentation allowed.
BLKTGL = Blocking toggle.
INH = Presentation restricted.

v\textsuperscript{1} = Time to wait for a response from the service control point (SCP) (1-10 seconds).

w\textsuperscript{1} = Generic address signal digits (15 digits maximum).

x\textsuperscript{1} = Generic address type of address. Valid value(s):
DIALEDNBR = Dialed number.
DESTNBR = Destination number.
SUPFAILSCR = Supplemental user provided calling address. Failed screening.
SUPNOTSCR = Supplemental user provided calling address. Not screened.
COMPLETNBR = Completion number.

y\textsuperscript{1} = Close cause. Valid value(s):
TERM = Call terminated.
CMPL = Events and reports completed.
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ANSW = Called party answered.
CALLFWD = Call forwarded.

z\textsuperscript{1} = Notification indicator. Valid value(s):
NOTIFY = Switch notification message.
REQ = Switch request message.

a\textsuperscript{2} = Busy cause coding standard. Valid value(s):
CCITT = International Telecommunication Union - Telecommunication Standardization Sector (ITU-TS) (formerly CCITT) standard.
NETWK = Network specific.

b\textsuperscript{2} = Busy cause general location. Valid value(s):
INTNTWK = International network.
LOCTRL = Local interface controlled by signaling link.
LOCUNKN = Location unknown.
PUBLU = Public network serving local user.
PUBRU = Public network serving remote user.
PVTLU = Private network serving local user.
PVTTRU = Private network serving remote user.
TRNTWK = Transit network.
USER = User.

= Busy cause value. Valid value(s):
ADRINC = Address incomplete.
AUNKPARM = Parameter non-existent or not implemented - accepted.
BCNOAUTH = Bearer capability not authorized.
BCNOIMPL = Bearer capability not implemented.
BCUNAV = Bearer capability not presently available.
CALLABN = Caller abandon.
CALLREJ = Call rejected.
DESTNORTE = No route to destination.
DESTOUT = Destination out of order.
DUNKPARM = Parameter non-existent or not implemented - discarded.
INFODISCD = Access information discarded.
INTWK = Interworking.
INVRSP = Improper caller response.
NBRCHG = Number changed.
NOCKT = No circuit available.
NOUSRSP = No user responding.
NRM = Normal.
NRMCLR = Normal clearing.
NSRVOPT = Service/option not implemented.
NTWKNorTE = No route to specified transit network.
NTWKOUT = Reserved for network out of order.
PARMINV = Parameter with invalid coding.
PRCLERR = Protocol error.
RDIRCTRX = Redirection counter exceeded.
SWCHCONG = Switching equipment congestion.
TMPFAIL = Temporary failure.
RQCHANUNV = Requested channel not available.
RSRC = Resource unavailable.
SRVOPT = Service/option not available.
UNALCNBR = Unallocated number.
UNKMSG = Msg type non-existent or not implemented.
USRALRT = User alerting, no answer.
USRBSY = User busy.

= Translation type.

= AMA measurement start date (month, day, year) in the form mm-dd-y.

NOTE: Year is only the last digit of the year.
= AMA measurement start time (hour, minutes, seconds, tenths of seconds) in the form hh-mm-ss-t.

= AMA measurement connection duration (minutes, seconds, tenths of seconds) in the form mmmm-ss-t.

= Time guard. Valid value(s):
  GUARD = Timing guard allowed.
  NOGUARD = No timing guard.

= Origination point code consisting of a nine digit character string. Refer to the APP:POINT-CODE appendix in the Appendixes section of the Input Messages manual.

= Busy type. Valid value(s):
  OFFRD = Call can be offered.
  NOTOFFRD = Call cannot be offered.

= Disconnect cause. Valid value(s):
  FAREND = Far end.

= Dial tone multi-frequency (DTMF) digits detected (4 digits maximum).

= Assignment authority.

= Access type.

= LANI 10 digit charge number.

= Nature of number for LANI. Valid value(s):
  APN = Action pointer number.
  INTL = Unique international number.
  NA = Not applicable or unknown.
  NAT = Unique national (significant) number (default value).
  NUINTL = Non-unique international number.
  NUNAT = Non-unique national number.
  NUSSNBR = Non-unique subscriber number.
  SSNBR = Unique subscriber number.
  TESTLN = Test line test code.

= Signaling platform. Valid value(s):
  0 = Common network interface (CNI) platform
  1 - 192 = Global switching module (GSM) number.

= OLI screen value.

4. SYSTEM RESPONSE

NG = No good. May also include:
  - EXCEEDEX xx DIGIT MAXIMUM = Too many digits entered. The allowed range for this
parameter is 0-xx.
- EXCEEDED xx DIGIT MAXIMUM FOR SPID = Too many digits entered for the SPID field for this parameter. The allowed range is 0-xx.
- INVALID DIGITS = The entered digits are invalid (0-9, *, and # are allowed).
- INVALID DN DIGITS = The entered DN digits are invalid (0-9, *, and # are allowed).
- OPC IS INVALID = The entered digits are either invalid (0-9 are allowed), the number of digits entered is incorrect (there must be nine digits), or the point code was not provisioned in the office.
- PLATFORM IS INVALID = The entered signaling platform is invalid (0 or 1 - 192 allowed).
- xx DIGITS REQUIRED = This parameter requires xx digits.
- xx DIGITS REQUIRED FOR DN = The DN field for this parameter requires xx digits.

NO = The request is not allowed. May also include:
- FEATURE NOT AVAILABLE = The ASP 0.1 feature must be purchased before attempting to set an ASP 0.1 test query parameter. This response can also be received when attempting to set a parameter that is itself restricted by an additional feature purchase.

OK = Good. The request was accepted.

RL = Retry later. May also include:
- INTERNAL ERROR = An internal error was encountered and processing could not continue.

5. REFERENCES

Input Message(s):

CLR:ASPTQ
OP:ASPTQ
TST:ASPTQ

Output Message(s):

OP:ASPTQ
TST:ASPTQ

Input Appendix(es):

APP:RANGES

Other Manual(s):
235-190-126 Advanced Services Platform
SET:AUD

Software Release: 5E14 and later
Command Group: AUDIT
Application: 5
Type: Input

1. PURPOSE

Requests to set SODD Audit to run Full, Incremental or sub audit(s) during execution.

2. FORMAT

SET:AUD=SODD,AUDIT=a;

3. EXPLANATION OF MESSAGE

a = Sub audit for the full audit to be set. Valid value(s):
   BOOT  = Boot Critical sub audit.
   BRCES = BRCES sub audit.
   CCS   = CCS sub audit.
   DIGIT = Digit Analysis sub audit.
   EQUIP = Equipment sub audit.
   FULL  = Full audit.
   GLOBAL = Global Parameters sub audit.
   INCR  = Incremental audit.
   ISDN  = ISDN sub audit.
   LINE  = Line sub audit.
   MISC  = Miscellaneous sub audit.
   MLHG  = MLHG sub audit.
   PSMLHG = Packet Switching MLHG sub audit.
   OSPS  = OSPS sub audit.
   TRUNK = Trunk sub audit.
   PSTRUNK = Packet Switching Trunk sub audit.

4. SYSTEM RESPONSE

PF = Printout follows.

- FULL AUDIT IS CURRENTLY RUNNING. ENTER "STP:AUD=SODD,FULL" TO STOP THE AUDIT." The input request is not valid because the SODD Audit is currently running.


5. REFERENCES

Input Message(s):

EXC:AUD-SODD
OP:AUD-SODD
STP:AUD-SODD
CLR: AUD

Output Message(s):

OP: AUD-ERROR
OP: AUD-STATUS

Other Manual(s):

235-105-210 *Routine Operations and Maintenance*
SET:BACKOUT

Software Release: 5E14 and later
Command Group: SYSRCVY
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Requests that uncommitted application recent changes be backed out. These backouts are from the administrative module (AM) and/or one or more switching modules (SMs) or a selected communication module processor (CMP) on a bootstrap (pump) of that processor. This is accomplished by unconditionally pumping the RC memory and inhibiting RC roll-forward.

Normally, when a processor (AM, SM or CMP) undergoes a high-level initialization (selective initialization or full initialization), recently applied recent changes are retained in office-dependent data (ODD). This input message causes recent changes to be backed out from memory on the next high-level initialization and all thereafter until manually cancelled. This procedure may be necessary if it is suspected that a recent change to a processor is linked to a performance problem of that processor. The backout condition will remain in effect through all processor initializations (with the exception of DMERT LVL4 initialization) until manually cleared by a CLR:BACKOUT input message or the related emergency action interface (EAI) parameter (AM bootstraps only). Format 1 requests that uncommitted recent changes in the AM be backed out. Format 2 requests that the same activity be performed on a CMP, and optionally the AM. Format 3 requests backing out uncommitted recent changes on one or more SMs, and other optional processors.

WARNING: Recent changes that have been applied since the last backout will not be included on one or more processors. Permitting backouts of selected processors may introduce inconsistencies between processors which can have adverse effects.

2. FORMAT

[2] SET:BACKOUT:RC,CMP=a, {PRIM|MATE}[,AM];
[3] SET:BACKOUT,RC,SM=b[&c][,LSM][,HSM][,ORM][,TRM][,DRM][,AM][,CMP=a, {PRIM|MATE}];

3. EXPLANATION OF MESSAGE

AM = Apply the backout to the AM.
HSM = Select switching modules of the type host switching module (HSM).
LSM = Select switching modules of the type local switching module (LSM).
MATE = Mate CMP.
ORM = Select modules of the type optically remote switching module (ORM).
PRIM = Primary CMP.
RC = Set the named processor(s) to back out all uncommitted recent changes on subsequent AM bootstraps and/or SM pumps.

RSM = Select switching modules of the type remote switching module (RSM).

SM = Apply the backout to one or more SMs.

TRM = Select modules of the type two mile optically remote switching module (TRM).

DRM = Select modules of the type distinctive remote reliable switching module (DRM).

a = CMP number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

b = SM number or lower limit of a range of SM numbers. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

c = Upper limit of the range of SM numbers. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

NG = No good. The message was not accepted because:
- The processor type was invalid or missing (AM, SM or CMP).
- An illegal SM number or range was specified.
- An illegal CMP number was specified.

OK = Good. The message was accepted and the action completed.

5. REFERENCES

Input Message(s):
CLR:BACKOUT
EXC:ODDRCVY
OP:SYSSTAT

Input Appendix(es):
APP:RANGES

Other Manual(s):
235-105-220   Corrective Maintenance
235-105-250   System Recovery Procedures

MCC Display Page(s):
110 (SYSTEM INHIBITS)
1800 (SM INH & RCVRY CNTL)
1850,1851 (CMP INH & RCVRY CNTL)
SET:BKUP

Software Release: 5E15 and later
Command Group: FHADM
Application: 5,3B
Type: Input

1. PURPOSE

Request a file to be created that specifies the options for an automated system backup. This file is referred to as a backup option file and is created in the /no5text/bkup/autobkup directory. Backup option files will remain in existence until manually removed from the /no5text/bkup/autobkup directory. The backup option files are used as input to the automated system backup process after backups are scheduled with SCHED:BKUP.

Format 1 is used to specify the options for a full office backup written at the beginning of tape (BOT).

Format 2 is used to specify the options for a backup appended after an existing tape volume. This format allows volumes to be appended within or after the last session. The entire last session or a subset of volumes within the last session can be overwritten.

Format 3 is used to specify the options for a backup written at the end of tape data (EOD).

Format 4 is used to specify the options for a backup written to a system backup disk (MHD 14 or MHD 15) or base disk pair (MHD 0 and MHD 1) backup partitions.

2. FORMAT

[1] SET:BKUP:BOT:DATA, DEST="a", [FN="f"], [TPSIZE=g];

    .. .SESS=d, VOL=e[-e[-e[...]]], [FN="f"], [TPSIZE=g];

    .. .[, FN="f"], [TPSIZE=g];


3. EXPLANATION OF MESSAGE

a = Destination device. Valid value(s):
   pathname = Tape drive special device file (such as, /dev/mt08). Only valid when used with a backup to tape message format.
   MHD14 = System backup disk MHD 14. Only valid when used with the backup to disk message format.
   MHD15 = System backup disk MHD 15. Only valid when used with the backup to disk message format.
   BKPTN = Base disk pair (MHD 0/MHD 1) backup partitions. Only valid when used with the backup to disk message format.

b = Tape positioning session number (1-9). Used with the tape positioning volume number to specify the location on the tape to append volumes that will be backed up. The existing tape session and
volume numbers can be determined from the DUMP:BKTAPE output message.

The tape positioning session must be set to the number of the last session or the number of the last session minus one. It is invalid to specify any other session number. This ensures that only the last session on a tape can be overwitten with new data.

To append volumes within the last session or create a new session, the tape positioning session number must be set to the number of the last session on the tape.

To overwrite the entire last session, the tape positioning session number must be set to the number of the last session on the tape minus one.

c
= Tape positioning logical volume number. Valid value(s):
  0  = TOP.
  1  = AMTEXT.
  2  = AMODD.
  3  = SMTEXT.
  4  = SMODD1.
  5  = SMODD2.
  6  = SMODD3.
  7  = SMODD4.
  8  = SMODD5.
  9  = SMODD6.

Used with the tape positioning session number to specify the location on the tape to append volumes that will be backed up. Volumes to be backed up will be written onto the tape after the volume identified by the tape positioning session and volume numbers. All existing volumes following the volume identified by the tape positioning session and volume numbers will be overwritten. The existing tape session and volume numbers can be determined from the DUMP:BKTAPE output message.

To append volumes within the last session, the tape positioning volume number must be less than the numbers corresponding to the volumes to be backed up. This is required to keep the volume numbers in ascending order within a session.

It is invalid to append volumes so that a portion of the SMODD volumes are overwritten. To overwrite all of the SMODD volumes in the last session, the tape positioning volume number must be equal to 4.

To create a new session or overwrite all existing volumes in the last session, the tape positioning volume number must be equal to the last volume within the session specified as the tape positioning session ‘b’.

d
= Session number assigned to new volumes written to tape. The first session on a tape must be numbered 1 and increased sequentially thereafter with a maximum value of 9.

To append volumes within the last session on the tape or overwrite all existing volumes in the last session, the session number must be equal to the number of the last session on the tape.

To create a new session on the tape, the session number must be equal to the last session number on the tape plus one.

e
= A dash separated list of identifiers for volumes that will be backed up to tape. Valid value(s): ALL
  = Full office backup includes AMTEXT, AMODD, SMTEXT, SMODD. Logical
volume numbers 1-9.

AMTEXT = Logical volume number 1.
AMODD = Logical volume number 2.
SMTEXT = Logical volume number 3.

Volumes must be written in ascending order within a session and are allowed to be skipped within a session.

f = Name of the backup option file that will be created. This variable must not be specified as a full or relative pathname.

This file will be created in the /no5text/bkup/autobkup directory and will remain in existence until manually removed. An existing backup option file cannot be over written. If a file name is not specified, the default file name, bkup.opts, will be used.

g = Length in meters of the DAT mounted on the specified destination tape drive. Valid lengths are 90, 120, 125 and 150 meters.

A default length of 90 meters will be used if the tape length is not specified.

4. SYSTEM RESPONSE

PF = Printout follows. Followed by the SET:BKUP output message.

5. REFERENCES

Input Message(s):

ALW:AUTOBKUP
CLR:BKUP
INH:AUTOBKUP
OP:BKUP
SCHED:BKUP
STP:AUTOBKUP

Output Message(s):

SET:BKUP

Other Manual(s):
235-105-210  Routine Operations and Maintenance Procedures
SET:CALLMON

Software Release: 5E14 and later
Command Group: SYSRCVY
Application: 5
Type: Input

1. PURPOSE

Requests that the verbose mode of the call monitor be turned on. This message generates the REPT CALLMON VERBOSE TEST CALL output message on a per test call basis and allows the REPT CALLMON CURRENT [5|15] MINUTE REPORT to print regardless of passing or failing call completion analysis.

2. FORMAT

SET:CALLMON,VERBOSE;

3. EXPLANATION OF MESSAGE

No variables.

4. SYSTEM RESPONSE

OK = Good. The request has been accepted.

5. REFERENCES

Input Message(s):

ALW: CALLMON
CLR: CALLMON
INH: CALLMON
OP: CALLMON
RTR: CALLMON

Output Message(s):

OP: CALLMON
REPT: CALLMON-CMR
REPT: CALLMON-VTC

Other Manual(s):

235-105-110 System Maintenance Requirements and Tools
235-105-210 Routine Operations and Maintenance

MCC Display Page(s):

116 (MISCELLANEOUS)
SET:CGAP-A

Software Release: 5E14 only
Command Group: NMOC
Application: 5
Type: Input

1. PURPOSE

Requests that a call gapping (CGAP) code control be set to restrict traffic.

Format 1 introduces or modifies a code control for all calls to a specified destination code, regardless of access prefix.

Format 2 introduces or modifies a code control for all calls to a specified access prefix, regardless of destination code.

Format 3 introduces or modifies a code control for all calls to a specified destination code and access prefix.

Note: For the Autoplex® application, this message will not have any effect on the application software. It can be entered, but it will not take effect.

2. FORMAT

[1] SET:CGAP, CODE=a, DOM={ALL|f}, GAP=c[,ANN=d];
[2] SET:CGAP, PREFIX=b, DOM={ALL|f}, GAP=c[,ANN=d];
[3] SET:CGAP, CODE=a, PREFIX=b, DOM={ALL|f}, GAP=c[,ANN=d];

3. EXPLANATION OF MESSAGE

a = Destination code (often referred to as called number). This string may contain up to 18 digits. (Valid characters 0-9, "+", "; the quotation marks are required where shown). The string is typically of the form NPANXXXXXX where NPA is the area code, NXX is the office code and XXXX is the last four digits of the number. Any of the leftmost subsets, however, can be entered (such as, a code control can be set on the NPA, the first digit of the NPA, the area code followed by two digits of the office code NPANX, and so forth.).

Note: Code controls are usually more effective when set in the offices surrounding the office where the controlled number (NPANXXXXXX) physically resides.

b = The access prefix (0 - 9999). The access prefix only applies to feature group D carriers.

c = Gap interval. Maximum rate at which calls may be released towards the specified destination code.

Note: The gap is randomized by +- 50%, to prevent bursts or pulses of traffic (except for gaps 0 and INF).

Valid value(s):
0 = Apply no control, but collect measurements.
PT1 = 0.10 sec.
PT12 = 0.12 sec.
PT14 = 0.14 sec.
PT16 = 0.16 sec.
PT18 = 0.18 sec.
PT2  = 0.20 sec.
PT25 = 0.25 sec.
PT36 = 0.36 sec.
PT5  = 0.50 sec.
PT6  = 0.60 sec.
PT75 = 0.75 sec.
1   = 1.0  sec.
1PT6 = 1.6  sec.
2   = 2.0  sec.
3   = 3.0  sec.
5   = 5.0  sec.
6   = 6.0  sec.
9   = 9.0  sec.
10  = 10.0 sec.
12  = 12.0 sec.
15  = 15.0 sec.
20  = 20.0 sec.
30  = 30.0 sec.
45  = 45.0 sec.
60  = 60.0 sec.
75  = 75.0 sec.
100 = 100.0 sec.
120 = 120.0 sec.
150 = 150.0 sec.
300 = 300.0 sec.
450 = 450.0 sec.
600 = 600.0 sec.
INF = Infinity, block all calls.

d = Announcement (ANN) treatment if blocking occurs. Valid value(s):
EANN1 = Emergency announcement 1.
EANN2 = Emergency announcement 2.
NCA  = No circuit announcement. Default.
Note: This is different from no announcement.

f = Switching domain list (1 - 99). The switching domain is equivalent to the digit analysis selector (DAS).
ALL  = Apply code control to all domains.

4. SYSTEM RESPONSE

PF = Printout follows. Followed by the SET:CGAP output message.
RL  = Retry later. May also include:
5. REFERENCES

Input Message(s):

CLR : CGAP
OP : CGAP

Output Message(s):

SET : CGAP

Other Manual(s):
235-190-115  Local and Toll System Features

MCC Display Page(s):

109 (OVERLOAD)
130 (NM EXCEPTION)
1. PURPOSE

Requests that a call gapping (CGAP) code control be set to restrict traffic.

Format 1 introduces or modifies a code control for all calls to a specified destination code, regardless of access prefix. Format 2 introduces or modifies a code control for all calls to a specified access prefix, regardless of destination code. Format 3 introduces or modifies a code control for all calls to a specified destination code and access prefix.

Note: For the Autoplex® application, this message will not have any effect on the application software. It can be entered, but it will not take effect.

2. FORMAT

[1] SET:CGAP, CODE=a, DOM={ALL|f}, GAP=c[, ANN=d];
[2] SET:CGAP, PREFIX=b, DOM={ALL|f}, GAP=c[, ANN=d];
[3] SET:CGAP, CODE=a, PREFIX=b, DOM={ALL|f}, GAP=c[, ANN=d];

3. EXPLANATION OF MESSAGE

a = Destination code (often referred to as called number). This string may contain up to 18 digits. (Valid characters 0-9, *, #; the quotation marks are required where shown). The string is typically of the form NPANXXXXXX where NPA is the area code, NXX is the office code and XXXX is the last four digits of the number. Any of the leftmost subsets, however, can be entered (such as, a code control can be set on the NPA, the first digit of the NPA, the area code followed by two digits of the office code NPANX, and so forth.).

Note: Code controls are usually more effective when set in the offices surrounding the office where the controlled number (NPANXXXXXX) physically resides.

b = The access prefix (0 - 9999). The access prefix only applies to feature group D carriers.

c = Gap interval. Maximum rate at which calls may be released towards the specified destination code.

Note: The gap is randomized by ± 50%, to prevent bursts or pulses of traffic (except for gaps 0 and INF).

Valid value(s):
0 = Apply no control, but collect measurements.
PT1 = 0.10 sec.
PT12 = 0.12 sec.
PT14 = 0.14 sec.
PT16 = 0.16 sec.
<table>
<thead>
<tr>
<th>Time Code</th>
<th>Duration</th>
</tr>
</thead>
<tbody>
<tr>
<td>PT18</td>
<td>0.18 sec.</td>
</tr>
<tr>
<td>PT2</td>
<td>0.20 sec.</td>
</tr>
<tr>
<td>PT25</td>
<td>0.25 sec.</td>
</tr>
<tr>
<td>PT36</td>
<td>0.36 sec.</td>
</tr>
<tr>
<td>PT5</td>
<td>0.50 sec.</td>
</tr>
<tr>
<td>PT6</td>
<td>0.60 sec.</td>
</tr>
<tr>
<td>PT75</td>
<td>0.75 sec.</td>
</tr>
<tr>
<td>1</td>
<td>1.0 sec.</td>
</tr>
<tr>
<td>1PT6</td>
<td>1.6 sec.</td>
</tr>
<tr>
<td>2</td>
<td>2.0 sec.</td>
</tr>
<tr>
<td>3</td>
<td>3.0 sec.</td>
</tr>
<tr>
<td>5</td>
<td>5.0 sec.</td>
</tr>
<tr>
<td>6</td>
<td>6.0 sec.</td>
</tr>
<tr>
<td>9</td>
<td>9.0 sec.</td>
</tr>
<tr>
<td>10</td>
<td>10.0 sec.</td>
</tr>
<tr>
<td>12</td>
<td>12.0 sec.</td>
</tr>
<tr>
<td>15</td>
<td>15.0 sec.</td>
</tr>
<tr>
<td>20</td>
<td>20.0 sec.</td>
</tr>
<tr>
<td>30</td>
<td>30.0 sec.</td>
</tr>
<tr>
<td>45</td>
<td>45.0 sec.</td>
</tr>
<tr>
<td>60</td>
<td>60.0 sec.</td>
</tr>
<tr>
<td>75</td>
<td>75.0 sec.</td>
</tr>
<tr>
<td>100</td>
<td>100.0 sec.</td>
</tr>
<tr>
<td>120</td>
<td>120.0 sec.</td>
</tr>
<tr>
<td>150</td>
<td>150.0 sec.</td>
</tr>
<tr>
<td>300</td>
<td>300.0 sec.</td>
</tr>
<tr>
<td>450</td>
<td>450.0 sec.</td>
</tr>
<tr>
<td>600</td>
<td>600.0 sec.</td>
</tr>
<tr>
<td>INF</td>
<td>Infinity, block all calls.</td>
</tr>
</tbody>
</table>

**d**
- Announcement (ANN) treatment if blocking occurs. Valid value(s):
  - **EANN1** = Emergency announcement 1.
  - **EANN2** = Emergency announcement 2.
  - **NCA** = No circuit announcement. Default.
  - Note: This is different from no announcement.

**f**
- Switching domain list (1 - 254). The switching domain is equivalent to the digit analysis selector (DAS).
  - **ALL** = Apply code control to all domains.

### 4. SYSTEM RESPONSE

**PF**
- Printout follows. Followed by the SET:CGAP output message.

**RL**
- Retry later. Valid value(s):
  - **RESOURCE SHORTAGE** = The necessary resources are not available.
5. REFERENCES

Input Message(s):

CLR : CGAP
OP : CGAP

Output Message(s):

SET : CGAP

Other Manual(s):

235-190-115  Local and Toll System Features

MCC Display Page(s):

109 (OVERLOAD)
130 (NM EXCEPTION)
SET:CLK-5

Software Release: 5E14 and later
Command Group: MAINT
Application: 5
Type: Input

1. PURPOSE

Requests that the system clock be set to the specified date and time, or that the system time be adjusted by a small amount.

Format 1 sets the system clock to the specified date and time. If a date is not specified, the current date is used. Format 2 increases the system time by up to one hour. Format 3 decreases the system time by up to one hour.

Note: Changing the system clock impacts the scheduling time of some tasks. Depending on the actual time transition and a task's scheduled execution time, setting the system clock backward may delay some tasks, while setting the system clock ahead may cause some tasks to run immediately.

2. FORMAT

[2] SET:CLK,INCREASE=g;
[3] SET:CLK,DECREASE=g;

3. EXPLANATION OF MESSAGE

a = Date, in the form month-day-year.
b = Time, in the form hour-minute-second.
g = Offset from current time, in seconds (0-3600).

4. SYSTEM RESPONSE

NG = No good. Semantic checks on the input values failed, causing the request to be rejected. May also include:
- BAD INPUT DATA = An input value either conflicted with another input value or was out of range.
- INVALID HOUR FOR DST = In offices that honor daylight savings time (DST), the new system time fell in the non-existent hour between 02:00:00 and 02:59:59 on the first Sunday in April.
- NEW TIME EXCEEDS INTERNAL LIMIT = The new system time overflowed the internal time structure.

PF = Printout follows. The request was accepted. Followed by the SET:CLK-5 output message.

RL = Retry later. May also include:
- CANNOT APPLY OFFSET WHILE TIME IS BAD = A request to increase or decrease the
system time by some offset value was denied because the existing system time was invalid.

5. REFERENCES

Input Message(s):

OP : CLK

Output Message(s):

OP : CLK
SET : CLK-5
SET:CONFIRM

Software Release: 5E14 and later
Command Group: ADMIN
Application: 5
Type: Input

1. PURPOSE

Request to set the text and/or display status of a user-definable confirmation prompt. A user-definable confirmation prompt can only be set for page pokes which have existing system-defined default confirmation prompts. A user-definable confirmation prompt can have up to three lines of text.

2. FORMAT

SET:CONFIRM,PAGE=a,POKE=b{[,LINE1|LINE2|LINE3]="c"}[,DISPLAY[=d]]

3. EXPLANATION OF MESSAGE

a = MCC page number. Refer to the E-CONF-POKES appendix in the Appendixes section of the Input Messages manual.

b = Command poke number. Refer to the E-CONF-POKES appendix in the Appendixes section of the Input Messages manual.

c = User-definable text for a line of the confirmation prompt. Only one line may be requested at a time. May be used with or without variable 'd'. Maximum line length is 65 characters.

d = Display status. May be used with or without variable 'c' but, if used must be the last item in the message line. Valid value(s):
  N = If used, no confirmation page will appear and only the system-defined default confirmation prompt will appear.
  Y = If used when the user enters the specified page and poke combination, a confirmation page (that is, a page showing the user-definable text) will be displayed at the requesting terminal, followed by the system-defined default confirmation prompt.

4. SYSTEM RESPONSE

NG = No good. Valid value(s):
  - INTERNAL ERROR (CREAT FAIL1) = Failed to create confirmation prompt file /no5text/hm/.enhconf.
  - INTERNAL ERROR (MALLOC FAIL1) = Failed to allocate space in memory. Try repeating the request.
  - INTERNAL ERROR (OPEN FAIL1) = Failed to open confirmation prompt file /no5text/hm/.enhconf.
  - INTERNAL ERROR (READ FAIL1) = Failed to read confirmation prompt file /no5text/hm/.enhconf.
  - INTERNAL ERROR (SEEK FAIL1) = Failed to seek to appropriate position in confirmation prompt file /no5text/hm/.enhconf.
  - INTERNAL ERROR (WRITE FAIL1) = Failed to write to confirmation prompt file
/no5text/hm/.enhconf.
- INVALID PAGE AND POKE COMBINATION = The page and poke combination is not valid, or is a combination which does not have a default confirmation prompt.
- SPECIAL FEATURE NOT AVAILABLE = Secured feature bit is not turned on.
- NO LINE OR DISPLAY INPUT

OK = The input message syntax is correct and the input message has been accepted and will be processed.

5. REFERENCES

Input Message(s):

   OP:CONFIRM

Output Message(s):

   OP:CONFIRM

Other Manual(s):
235-190-115  Local and Toll System Features
235-105-110  System Maintenance Requirements and Tools
SET:COT

Software Release: 5E14 and later
Command Group: TRACE
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Requests that the mode and/or priority of customer-originated traces (COT) be changed. This input message allows
the device for COT messages to be dedicated to tty45 (MODE=DEDICATED), or to be set to what is specified by
the classdef (MODE=NONDEDICATED), and will allow the priority of the messages going to the classdef(160) to be
changed.

Format 1 is used to toggle between DEDICATED and NONDEDICATED mode without changing the priority.

Format 2 is used to change only the priority of the messages to the classdef, but not the mode.

Format 3 is used to change both the mode and priority.

WARNING: Incorrect use of this message could result in COT messages' being lost. If dedicated mode is chosen, there MUST be a dedicated tty45 available. If nondedicated mode is chosen then there must be writable devices listed on the appropriate classdef. No warning message will be printed if either of the above rules is violated, and no warning message will be printed if any COT messages are lost. To determine whether there is an available tty45, look at the equipment configuration database (ECD). Poke 199 from the Master Control Center (MCC) page. Look at the UCB and give a key of TTY45. The information will then be displayed. Verify that the TTY45 is active. To see which devices are on the classdef, look at classdef 160 from the ECD.

DEDICATED mode enables special monitoring of TTY45. In the event that a COT message could not be sent to TTY45, (that is, TTY45 is out-of-service) it will be buffered until TTY45 is restored. This ensures that TTY45 will always get the COT messages. The buffer will hold 300 COT messages. Once 300 COT messages are buffered COT is internally disabled, and will not be re-enabled until the COT buffer is emptied to at least 285. Alarm messages are sent to the ROP when the COT buffer reaches 50% and 100% full. While in DEDICATED mode, each time an attempt is made to send a message to TTY45, the same message is sent to any and all devices specified on the classdef form 160. While in DEDICATED mode TTY45 must be equipped or COT will be internally disabled. Equipped is defined to be ACTIVE, STANDBY, INIT, or OOS. NONDEDICATED mode does not use the special monitoring, and only sends the COT messages to all devices specified on classdef form 160. When using this mode it is the user's responsibility to make sure that the proper devices are entered on classdef form 160. If no devices are specified on that form, then the COT messages will be lost.

Setting up the classdef form applies to both DEDICATED and NONDEDICATED modes, however, DEDICATED mode does not need to specify anything on the classdef form, since the messages will always go to TTY45. When using NONDEDICATED mode, special care needs to be taken when setting up the classdef form. The classdef form will accept any logical device name. That device could be an SCCS link, the ROP, the MCC, any TTY, or even a log file. The logical device name is the same name used as a key for the ECD device form. A typical classdef form for COT might specify that COT messages should go to the SCCS, the ROP, and a COT log file. The COT log file would be defined on the device form in the ECD. Note that the name of the COT log file must not conflict with the COT buffer which is /log/COTbuffer. If a device on the classdef form is OOS, or has reached its message buffer limit, then the message destined for that device is forwarded to the alternate device specified for that device. If no alternate device was specified, then the message for that device is lost. Alternate devices are specified on the device form. In order to achieve a high reliability for NONDEDICATED mode, we strongly recommend defining
alternate devices. Changing the mode is rare event. It should be done when COT is installed in the office. If DEDICATED mode is normally used, changing the mode to NONDEDICATED may be useful during usually long outages of TTY45. DEDICATED mode offers the highest reliability against lost COT messages.

However, the buffer size is limited to 300 COT messages. If there is a prolonged outage of TTY45, the user may choose to temporarily change to NONDEDICATED mode operation. This would keep COT enabled since the COT buffer is not used in NONDEDICATED mode. Note that when the mode is switched to NONDEDICATED, any messages in the COT buffer are forwarded to the classdef form 160, and the buffer cleared. If the buffer was full, and COT was disabled, COT would be re-enabled. Priority is used in conjunction with messages that are sent to the classdef form. If a device specified on the classdef form uses a priority queue, then this priority is used to determine the messages placement in the queue. The priority is set to 4 when COT is installed in the office. If a device does not use a priority queue, but rather uses FIFO, the priority has no effect.

2. FORMAT


[2] SET:COT,PRIORITY=b;


3. EXPLANATION OF MESSAGE

DEDICATED = Allow the sending of COT messages to the dedicated tty45 device (as well as to anything listed on the classdef). This mode is desired because up to 300 COT messages can be buffered if the tty45 temporarily goes down. If this mode is chosen then there must exist a dedicated tty45 device.

NONDEDICATED = Inhibit the sending of COT messages to the dedicated tty45, and send them to what is defined in the classdef. If no dedicated tty45 is available, then this mode must be chosen. If this mode is chosen then there MUST be writable devices listed on the classdef. No warning message will appear if there are no devices on the classdef.

b = Priority of the COT messages. A number from 0 (lowest) to 5. This priority determines how important it is that the COT messages be printed. If many messages are sent to a device, and the priority is not very high for the COT message, it may not be printed.

4. SYSTEM RESPONSE

NA = No acknowledgement. The COT process is too busy to handle the request. No changes have been made. Retry the input message later.

PF = Printout follows. Followed by the OP:COT-STATUS output message showing the status and priority set by this message.

5. REFERENCES

Input Message(s):

   OP:COT-STATUS

Output Message(s):
SET:DCC

Software Release: 5E14 and later
Command Group: NMOC
Application: 5
Type: Input

1. PURPOSE

Requests that a destination code cancellation (DCC) control to be set or modified to restrict traffic to a specified destination code. The DCC control is initiated or modified for routine or all levels of precedence.

This input message is used only in the defense switched network (DSN).

2. FORMAT

SET:DCC, CODE=a, GAP=b, TRAFFIC=c [, ANN=d ];

3. EXPLANATION OF MESSAGE

a  = Destination code (up to 15 characters; valid characters 0-9). The digits entered may be on the form of NYXNNXXXXX, where NYX is the area code, NNX is the office code, and XXXX is the line number. However, any of the left-most subsets of NYXNNXXXXX (such as, N, NY, NYX, NYXN, NYXNN, NYXNNX, NYXNNXX) can be entered as the control code.

b  = Gap interval. Valid value(s):
   0    = No control but collect measurements.
   PT1  = 0.10 sec.
   PT12 = 0.12 sec.
   PT14 = 0.14 sec.
   PT16 = 0.16 sec.
   PT18 = 0.18 sec.
   PT25 = 0.25 sec.
   PT36 = 0.36 sec.
   PT5  = 0.50 sec.
   PT6  = 0.6 sec.
   PT75 = 0.75 sec.
   1    = 1.0 sec.
   1PT6 = 1.6 sec.
   2    = 2.0 sec.
   3    = 3.0 sec.
   2    = 2.0 sec.
   5    = 5.0 sec.
   6    = 6.0 sec.
   9    = 9.0 sec.
   10   = 10.0 sec.
   12   = 12.0 sec.
   15   = 15.0 sec.
   20   = 20.0 sec.
   30   = 30.0 sec.
   45   = 45.0 sec.
   60   = 60.0 sec.
   75   = 75.0 sec.
100 = 100.0 sec.
120 = 120.0 sec.
150 = 150.0 sec.
300 = 300.0 sec.
450 = 450.0 sec.
600 = 600.0 sec.
INF = Infinity, all calls blocked.

c = Traffic type subject to the control. Valid value(s):
ALL = All levels of precedence, for example, flash override, flash, immediate, priority, and routine.
RTN = Routine traffic only.

d = Announcement treatment if blocking occurs. Valid value(s):
EANN1 = Emergency announcement 1.
EANN2 = Emergency announcement 2.
NCA = No circuit announcement.
ICA = Isolated code announcement (default).

4. SYSTEM RESPONSE

PF = Printout follows. Followed by the SET:DCC output message.

RL = Retry later. May also include:
- RESOURCE SHORTAGE = The necessary resources are not available.

5. REFERENCES

Input Message(s):
CLR:DCC
OP:DCC

Output Message(s):
SET:DCC

Other Manual(s):
235-900-113 Product Specification

MCC Display Page(s):
109 (OVERLOAD)
130 (NM EXCEPTION)
**SET:DSE**

*Software Release:* 5E14 and later  
*Command Group:* CCS  
*Application:* 5  
*Type:* Input

1. **PURPOSE**

Requests that the trapping and printing of direct signaling events (DSEs) be turned on. These events will be reported in the `REPT:ACP-APP-SM`, `REPT:ASP`, `REPT:DSE`, `REPT:MS-TRAPPED`, `REPT:NS` and `REPT:OSPS-DSE` output messages.

2. **FORMAT**

```
SET:DSE=a[,DUR=b];
```

3. **EXPLANATION OF MESSAGE**

- `a` = Event to be trapped and printed. Valid value(s):
  - `AILSGMG` = Automated inward line screening (AILS) message received with invalid format reply.
  - `AILSMRQ` = AILS error - misrouted query.
  - `AILSTOT` = AILS query timed out before a reply was received.
  - `AILSTRF` = AILS error - task refused.
  - `AILSUVD` = AILS error - message received with unexpected input data value.
  - `ASPCGCOMP` = Advanced services platform (ASP) service control point (SCP) response or unidirectional message with an automatic call gap (ACG) component received at the switch.
  - `ASPBADRESP` = ASP SCP response message received with invalid data.
  - `ASPNORTEMSG` = ASP reject message, a return error, or a play announcement received at the switch from the SCP.
  - `ASPQRYFAIL` = ASP query blocked by network management(NM) ACG, a returned query or conversation received at the switch or a time out received in call processing.
  - `ASPSNCOMP` = ASP SCP response message with a send notification received at the switch.
  - `ASPTNMSG` = ASP termination notification message sent from the switch to the SCP.
  - `CASDBOV` = Customer account services (CAS) message received indicating database overload.
  - `CASDBUN` = CAS message returned - database unable to process.
  - `CASMGSG` = CAS message received garbled.
  - `CASNBLK` = CAS message returned because of network blockage.
  - `CASNCON` = CAS message returned because of network congestion.
  - `CASNRTE` = CAS message returned because of no routing data.
  - `CASTOUT` = CAS message returned because of timeout.
  - `CASUNEQ` = CAS message returned because of unequipped destination.
  - `CASURPY` = CAS message received with an unexpected reply.
  - `CAS7ABM` = CAS common channel signaling 7 (CCS7) abort message received.
  - `CAS7ACG` = CAS CCS7 ACG invoke component received.
  - `CAS7GMR` = CAS CCS7 received with invalid format reply.
  - `CAS7GWE` = CAS CCS7 error - gateway error.
  - `CAS7MRP` = CAS CCS7 error - message received with missing parameter.
  - `CAS7MRQ` = CAS CCS7 error - misrouted query.
  - `CAS7NCG` = CAS CCS7 message returned because of network congestion.
CAS7NFL = CAS CCS7 message returned because of network failure.
CAS7RCR = CAS CCS7 reject component received.
CAS7SCG = CAS CCS7 message returned because of subsystem congestion.
CAS7SFL = CAS CCS7 message returned because of subsystem failure.
CAS7TAN = CAS CCS7 message returned - no translation data for address of such nature.
CAS7TOT = CAS CCS7 query which timed out before reply received.
CAS7TRF = CAS CCS7 error - task refused.
CAS7TSA = CAS CCS7 message returned - no translation data for this specific address.
CAS7UDV = CAS CCS7 error - message received with unexpected input data value.
CAS7UPR = CAS CCS7 error - message received with unexpected parameter.
CAS7UQD = CAS CCS7 message returned - unqualified.
CAS7URY = CAS CCS7 message returned - unequipped user.
CAS7VCD = CAS CCS7 error - vacant code.
CCDDBOV = BVA calling card (CCRD) message received indicating database overload.
CCDDBUN = BVA CCRD message returned- database unable to process.
CCDGMSG = BVA CCRD message received garbled.
CCDDBLK = BVA CCRD message returned because of network blockage.
CCDNCN = BVA CCRD message returned because of network congestion.
CCDNRTE = BVA CCRD message returned because of no routing data.
CCDUNEQ = BVA CCRD message returned because of unequipped destination.
CCDURPY = BVA CCRD message received with an unexpected reply.
ICCVABM = International credit card validation (ICCV) abort message received.
ICCVDBU = ICCV error - message returned - database unavailable.
ICCVEMF = ICCV error in message format.
ICCVGMR = ICCV received with invalid format reply.
ICCVMRQ = ICCV error - misrouted query.
ICCVNCG = ICCV message returned because of network congestion.
ICCVNFL = ICCV message returned because of network failure.
ICCVRCR = ICCV reject component received.
ICCVSCG = ICCV message returned because of subsystem congestion.
ICCVSFL = ICCV message returned because of subsystem failure.
ICCVTAN = ICCV message returned - no translation data for address of such nature.
ICCVTOT = ICCV query which timed out before reply received.
ICCVTSA = ICCV message returned - no translation data for this specific address.
ICCVUDV = ICCV error - message received with unexpected input data value.
ICCVUPR = ICCV error - message received with unexpected parameter.
ICCVUQD = ICCV message returned - unqualified.
ICCVURY = ICCV received with unexpected reply.
ICCVUUR = ICCV message returned - unequipped user.
INWBLKD = Inward wide area telecommunications service (INWATS) returned blocked.
INWBUSY = INWATS all lines busy.
INWCCLBL = INWATS code control blocked.
INWDBOV = INWATS database overload.
INWDBTO = INWATS database timeout.
INWDSBL = INWATS direct signaling blocked.
INWNPA = INWATS nonpurchased numbering plan area (NPA).
INWNOXL = INWATS returned no translation.
INWONPA = INWATS invalid originating numbering plan area (ONPA).
INWOVLD = INWATS returned overload.
INWUNEQ  = INWATS returned unequipped.
INWVLIN  = INWATS vacant line number.
INWVNXX  = INWATS vacant NXX.
LACABM  = Line application for consumers (LAC) abort message received.
LACACG  = LAC invoke component received.
LACGMG  = LAC message received with invalid format.
LACMPR  = LAC error - message received with missing parameter.
LACMRQ  = LAC error - misrouted query.
LACNCG  = LAC message returned because of network congestion.
LACNFL  = LAC message returned because of network failure.
LACCR  = LAC reject component received.
LACSCG  = LAC message returned because of subsystem congestion.
LACSLF  = LAC message returned because of subsystem failure.
LACTAN  = LAC message returned - no translation data for address of such nature.
LACTOT  = LAC query timed out before a reply was received.
LACTRF  = LAC error - task refused.
LACTSA  = LAC message returned - no translation data for this specific address.
LACUDV  = LAC error - message received with unexpected input data value.
LACUPR  = LAC error - message received with unexpected parameter.
LACUQD  = LAC message returned - unqualified.
LACURY  = LAC unexpected reply.
LACUUR  = LAC message returned - unequipped user.
LACVCD  = LAC error - vacant code.
LIDBCGI  = Line information database (LIDB) message with a call gapping indicator present.
LIDBGM  = LIDB garbled message.
LIDBMGM  = LIDB return value missing group or misrouted.
LIDBNAN  = LIDB return value no translation for an address of such nature.
LIDBNCG  = LIDB return value network congestion.
LIDBNFL  = LIDB return value network failure.
LIDBNPG  = LIDB return value nonparticipating group.
LIDBNSA  = LIDB return value no translation for this specific address.
LIDBREJ  = LIDB reject message received.
LIDBSCG  = LIDB return value subsystem congestion.
LIDBSFL  = LIDB return value subsystem failure.
LIDBTO  = LIDB message missed because of timeout.
LIDBUP  = LIDB message with unexpected reply.
LIDBUUR  = LIDB return value unequipped user.
LNBAS  = Call failed due to the query being blocked at the switch.
LNBN  = Call failed due to the query being blocked in the common channel signaling (CCS) network.
LNGTCAP  = Garbled transaction capabilities application part (TCAP) message received - message can not be parsed.
LNNCANI  = Centralized automatic message accounting (CAMA) call failed due to CAMA trunk not providing automatic number identification (ANI) for query.
LNNCFA  = Call failure due to some reason while the transaction with the network control point (NCP) is active.
LNNCFI  = Call failure due to some reason while the transaction with the NCP is inactive.
LNRRER  = Call failed due to the conversation with the NCP resulting in a reject error response.
LNRR  = Call failed due to the conversation with the NCP resulting in a reject response.
LNTIM  = Call failed due to the query not being answered in time by the NCP.
<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>LNTRF</td>
<td>Call failed due to the NCP answering with a terminate request.</td>
</tr>
<tr>
<td>MSFAILRCVD</td>
<td>A Message Service System (MSS) reject message or a Return error message was received at the near/far switch from the far/near switch respectively.</td>
</tr>
<tr>
<td>MSFAILSENT</td>
<td>An MSS reject message or a return error message was sent to the near/far switch from the far/near switch respectively.</td>
</tr>
<tr>
<td>MSQRYFAIL</td>
<td>A timeout was received in the MSS. A return query was received at the near switch because of network failure or failure to send a query.</td>
</tr>
<tr>
<td>NCDAFTA</td>
<td>Network call denial (NCD) denied after answer.</td>
</tr>
<tr>
<td>NCDBEFA</td>
<td>NCD denied before answer.</td>
</tr>
<tr>
<td>NCDBLKD</td>
<td>NCD returned blocked.</td>
</tr>
<tr>
<td>NCDCCBL</td>
<td>NCD code control blocked.</td>
</tr>
<tr>
<td>NCDDBOV</td>
<td>NCD database overload.</td>
</tr>
<tr>
<td>NCDDENY</td>
<td>NCD deny received.</td>
</tr>
<tr>
<td>NCDDSBL</td>
<td>NCD direct signaling blocked.</td>
</tr>
<tr>
<td>NCDNOXL</td>
<td>NCD returned no translation.</td>
</tr>
<tr>
<td>NCODVLD</td>
<td>NCD returned overload.</td>
</tr>
<tr>
<td>NCDUNEQ</td>
<td>NCD returned unequipped.</td>
</tr>
<tr>
<td>NSACGCOMP</td>
<td>Number services (NS) service control point (SCP) response message with an automatic call gap (ACG) component received at the switch.</td>
</tr>
<tr>
<td>NSBADRESP</td>
<td>NS SCP response message with invalid data.</td>
</tr>
<tr>
<td>NSNONRTEMSG</td>
<td>NS reject message, a return error or a play announcement received at the switch from SCP.</td>
</tr>
<tr>
<td>NSQRYFAIL</td>
<td>NS query blocked by network management (NM) ACG, a return query received at the switch or a time out received in call processing.</td>
</tr>
<tr>
<td>NSSNCOMP</td>
<td>NS response message with a send notification received at the switch.</td>
</tr>
<tr>
<td>NSTNMMSG</td>
<td>NS termination notification message sent from the switch to the SCP.</td>
</tr>
<tr>
<td>OLNABM</td>
<td>OSPS LNP abort message received.</td>
</tr>
<tr>
<td>OLNACG</td>
<td>OSPS LNP ACG invoke component received.</td>
</tr>
<tr>
<td>OLNECR</td>
<td>OSPS LNP error code received.</td>
</tr>
<tr>
<td>OLNPGMG</td>
<td>OSPS LNP received with invalid format reply.</td>
</tr>
<tr>
<td>OLNPCG</td>
<td>OSPS LNP message returned because of network congestion.</td>
</tr>
<tr>
<td>OLNPFL</td>
<td>OSPS LNP message returned because of network failure.</td>
</tr>
<tr>
<td>OLNPRCR</td>
<td>OSPS LNP reject component received.</td>
</tr>
<tr>
<td>OLNPSCG</td>
<td>OSPS LNP message returned because of subsystem congestion.</td>
</tr>
<tr>
<td>OLNPSFL</td>
<td>OSPS LNP message returned because of subsystem failure.</td>
</tr>
<tr>
<td>OLNPQD</td>
<td>OSPS LNP query which timed out before reply received.</td>
</tr>
<tr>
<td>OLNPU</td>
<td>OSPS LNP message returned - no translation data for this specific address.</td>
</tr>
<tr>
<td>OLNPUQ</td>
<td>OSPS LNP message returned - no translation data for address of such nature.</td>
</tr>
<tr>
<td>OLNPUUR</td>
<td>OSPS LNP message returned - unequipped user.</td>
</tr>
<tr>
<td>RATDBOV</td>
<td>Rating message received indicating database overload.</td>
</tr>
<tr>
<td>RATDBUN</td>
<td>Rating message returned- database unable to process.</td>
</tr>
<tr>
<td>RATGMSG</td>
<td>Rating message received garbled.</td>
</tr>
<tr>
<td>RATOUT</td>
<td>Rating message returned because of timeout.</td>
</tr>
<tr>
<td>RATURPY</td>
<td>Rating message received with an unexpected reply.</td>
</tr>
<tr>
<td>SDNABAS</td>
<td>Call failed due to the query's being blocked at the switch.</td>
</tr>
<tr>
<td>SDNBN</td>
<td>Call failed due to the query's being blocked in the common channel signaling (CCS) network.</td>
</tr>
<tr>
<td>SDNGTCAP</td>
<td>Garbled transaction capabilities application part (TCAP) message received - message can not be parsed.</td>
</tr>
</tbody>
</table>
SDNNCANI = Centralized automatic message accounting (CAMA) call failed due to CAMA trunk’s not providing automatic number identification (ANI) for query.

SDNNCFA = Call failed while the transaction with the network control point (NCP) was active.

SDNNCFI = Call failed while the transaction with the NCP was inactive.

SDNOCANI = CAMA call failed due to CAMA trunk’s not providing ANI through operator number identification (ONI) for query.

SDNRER = Call failed because to the conversation with the NCP resulting in a return error response.

SDNRR = Call failed because to the conversation with the NCP resulting in a reject response.

SDNTIM = Call failed due to the query’s not being answered in time by the NCP.

SDNTRF = Call failed due to the NCP’s answering with a terminate request.

b = Duration (DUR) of DSE trapping and printing in minutes (range is 1-30) (default is 10).

4. SYSTEM RESPONSE

NG = No good. Valid value(s):
- SYSTEM TROUBLE = The trap could not be activated due to a problem in the system.
- TRAP ALREADY SET = The requested trap is already activated.

OK = Good. The request was received and the trap was successfully activated. If any direct signaling events occur, the output messages will report them until traps are turned off or expire.

5. REFERENCES

Input Message(s):

CLR:DSE
OP:ST-DSE

Output Message(s):

OP:ST-DSE
REPT:ACP-APP-SM
REPT:ASP
REPT:DSE
REPT:MS-TRAPPED
REPT:NS
REPT:OSPS-DSE

Other Manual(s):

Where ‘x’ is the release-specific version of the specified manual.

235-190-120 Common Channel Signaling Services
235-190-12x Advanced Services Platform
SET:DSNM5

Software Release: 5E14 and later
Command Group: NMOC
Application: 5
Type: Input

1. PURPOSE

Requests that a package (PKG) be added to the five minute (M5) surveillance data set of packages for the on-site network management channel. This TTY message is valid only for defense switched network (DSN) switches.

2. FORMAT

SET:DSNM5,PKG=a;

3. EXPLANATION OF MESSAGE

a = Package name. Valid value(s):
ARC = Alternate route cancellation control.
CLCT = Network management control counts.
CLDIR = Call direction.
DCC = Destination code cancellation control.
DLYR = Delayed readiness.
IMA = Additional ineffective machine attempts.
OVRLD = Overload or congestion control.
RRC = Manual reroute trunk group controls.
SVC = Critical service circuit.
TGFLAG = Trunk group flags.
TGMEAS = Basic trunk group measurements.

4. SYSTEM RESPONSE

PF = Printout follows. Followed by the SET:DSNM5 output message.

5. REFERENCES

Input Message(s):
CLR:DSNM5
OP:DSNM5
OP:M5PKG

Output Message(s):
SET:DSNM5

Other Manual(s):
235-900-113 Product Specification
MCC Display Page(s):

109 (OVERLOAD)
129 (DSN NM EXCEPTION)
SET:ESA

Software Release: 5E14 and later
Command Group: MAINT
Application: 5
Type: Input

1. PURPOSE

Requests to make a specified enhanced 911 service adjunct (ESA) active. This request can be a simple switch operation or a request to force an ESA active.

2. FORMAT

SET:ESA,ACTIVE=a[,FRC];

3. EXPLANATION OF MESSAGE

FRC = The ESA is to be forced active. Once an ESA is put into the forced active state, the specified ESA will remain active and no manual or automatic switches will be allowed until the force is removed using a CLR:ESA input message using the FRC option.

a = Attached processor ID (APID) of the ESA to be set active.

4. SYSTEM RESPONSE

NG = No good. May also include:
   - FAILED TO SEND MESSAGE = The request has been denied because the message cannot be sent to the communication module processor (CMP) to perform the requested action.
   - FEATURE NOT AVAILABLE = The request has been denied because the dual ESA for E911 (SFID 108) and/or the dual ESA enhancements special feature (SFID 141) have not been purchased.
   - INVALID APID SPECIFIED = The request has been denied because the APID specified is not one of the ESAs defined for this office.
   - NOT AN ESA OFFICE = The request has been denied because the ESAs for the office have not been equipped (E911 OPTION field on RC/V View 8.1 is not ESA).
   - SYSTEM ERROR = An internal system error has occurred while processing the request.

PF = Printout follows. A SET:ESA output message follows.

RL = Retry later. May also include:
   - CMP UNAVAILABLE = The message can not be sent. The communications module processor (CMP) is not available.
   - OTHER REQUEST IN PROGRESS = Another ESA request is currently in progress.

5. REFERENCES

Input Message(s):

CLR:ESA
OP: ESA

Output Message(s):

CLR: ESA
OP: ESA
REPT: ESA
SET: ESA-STATUS

Other Manual(s):
235-900-303  ISDN Application Processor Interface Specification

RC/V View(s):

8.1 [OFFICE PARAMETERS (MISCELLANEOUS)]
24.7 (DSL APPLICATION PROCESSOR COMMUNICATION DATA)
**SET:FRC-MSCU**

**Software Release:** 5E14 and later  
**Command Group:** CM  
**Application:** 5  
**Type:** Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. **PURPOSE**

Requests that the specified side of the message switch control unit (MSCU) be forced active.

**WARNING:** If this message is used, the MSCU side specified will be unconditionally restored to an active forced (ACT FRCD) state and the other side put in the unavailable forced (UNAV FRCD) state. If the forced side is defective, fault recovery will not attempt to recover it. The use of this input message could result in the loss of transient calls if the MSCU forced contains the standby CMP. Use with extreme caution!

2. **FORMAT**

`SET:FRC,MSCU=a;`

3. **EXPLANATION OF MESSAGE**

`a`  
= Side of the MSCU to be forced. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. **SYSTEM RESPONSE**

`NG`  
= No good. The request has been denied. The message syntax is valid, but the request could not be processed. Refer to the APP:CM-IM-REASON appendix in the Appendixes section of the Input Messages manual for a list of possible reasons for denying the request.

`PF`  
= Printout follows.

`RL`  
= Retry later. The request cannot be executed now because the communication module (CM) deferred maintenance queue (DMQ) is full.

5. **REFERENCES**

**Input Message(s):**

`CLR:FRC-MSCU`

**Input Appendix(es):**

`APP:CM-IM-REASON`

**Output Message(s):**
SET: FRC-MSCU
SET:FRC-NCOSC-A

Software Release: 5E14 only
Command Group: CM
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Requests that the forced (FRC) condition be set on the specified side of the network clock 2 oscillator (NCOSC) to be used as the timing base for the office. If this message is used, the NCOSC side specified will be restored to an active forced (ACD FRCD) state and the other side put in the unavailable forced (UNAV FRCD) state.

WARNING: If the forced side is defective, fault recovery will not attempt to recover it.

NOTE: A warmup period of 16 hours is required for a high stability oscillator to meet its stated requirements. The warmup period for a medium stability oscillator is one hour. During the warmup period, the oscillator may be forced into service if the operation of the office network and timing complex (ONTC) depends on it. There may be a slight degradation of service during this period.

2. FORMAT

SET:FRC,NCOSC=a;

3. EXPLANATION OF MESSAGE

a = Side of the NCOSC to be forced. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

NG = No good. The message syntax is valid, but the request conflicts with the current system or equipment status.

PF = Printout follows. Followed by the SET:FRC-NCOSC output message.

RL = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

Input Message(s):
CLR:FRC-NCOSC
DUMP:NC

Output Message(s):
DUMP:NC
SET: FRC-NCOSC

Input Appendix(es):

APP : RANGES

MCC Display Page(s):

(NETWORK CLOCK)
SET:FRC-NCOSC-B

Software Release: 5E15 and later
Command Group: CM
Application: 5
Type: Input

1. PURPOSE

Requests that the forced (FRC) condition be set on the specified side of the network clock model 2 or 3 oscillator (NCOSC) to be used as the timing base for the office. If this message is used, the NCOSC side specified will be put to an active forced (ACT FRCD) state and the other side put in the unavailable forced (UNAV FRCD) state.

Note: For network clock model 2 (NC2) consider that a warmup period of 16 hours is required for a high stability oscillator to meet its stated requirements. The warmup period for a medium stability oscillator is one hour. For network clock model 3 (NC3) oscillator the warmup period is one and a half hours. During the warmup period, the oscillator may be forced into service if the operation of the office network and timing complex (ONTC) depends on it. This may cause a greater frequency of timing slips in HOLDOVER or FREERUN modes during this period.

2. FORMAT

SET:FRC,NCOSC=a;

3. EXPLANATION OF MESSAGE

a = Side of the NCOSC to be forced. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

NG = No good. The message syntax is valid, but the request conflicts with the current system or equipment status.

PF = Printout follows. Followed by the SET:FRC-NCOSC output message.

RL = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

Input Message(s):

CLR:FRC-NCOSC
DUMP:NC

Output Message(s):

DUMP:NC
SET:FRC-NCOSC

Input Appendix(es):
APP: RANGES

MCC Display Page(s):

1210(NETWORK CLOCK)
1211(NETWORK CLOCK REFERENCES)
**SET:FRC-ONTCCOM**

*Software Release:* 5E14 and later  
*Command Group:* CM  
*Application:* 5  
*Type:* Input

**WARNING:** INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. **PURPOSE**

Requests that the specified side of the office network and timing complex common unit (ONTCCOM) be forced active.

**WARNING:** If this message is used, the ONTCCOM side specified will be restored to an active forced (ACT FRCD) state unconditionally and the other side put in the unavailable forced (UNAV FRCD) state. If the forced side is defective, fault recovery will not attempt to recover it.

2. **FORMAT**

```
SET:FRC,ONTCCOM=a;
```

3. **EXPLANATION OF MESSAGE**

a = Side of the ONTCCOM to be forced. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. **SYSTEM RESPONSE**

```
NG = No good. The request has been denied. The message syntax is valid, but the request could not be processed. Refer to the APP:CM-IM-REASON appendix in the Appendixes section of the Input Messages manual for a list of possible reasons for denying the request.

PF = Printout follows.

RL = Retry later. The request cannot be executed now because the communication module (CM) deferred maintenance queue (DMQ) is full.
```

5. **REFERENCES**

*Input Message(s):*

```
CLR:FRC-ONTCCOM
```

*Input Appendix(es):*

```
APP:CM-IM-REASON
```

*Output Message(s):*
SET:FRC-TRCU3

**Software Release:** 5E14 and later  
**Command Group:** CM  
**Application:** 5  
**Type:** Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. **PURPOSE**

   This request is used to "force" active a particular function pack pair of a transmission rate conversion unit - model III (TRCU3) circuit. There is no force state of a function pair, so this request is accomplished by forcing the mate function pack to look faulty (Done by setting a hardware register). This command is needed to facilitate TRCU3 function pack replacement.

   **WARNING:** If this message is used, the TRCU3 side and path specified will be force into service. If the forced side is defective, fault recovery will not attempt to recover it.

2. **FORMAT**

   SET:FRC,TRCU3=a-b-c,{HOST|REMOTE};

3. **EXPLANATION OF MESSAGE**

   a  = Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

   b  = TRCU3 Path (TRCUPATH). This is the TRCUPATH connecting a host and remote TRCU3 circuits.

   c  = Side. This is the side of the CM which the function pack is connected that is desired to be forced active.

   **HOST**  "HOST" refers to the TRCU3 at the host location next which connects to the communications module (CM).

   **REMOTE**  "REMOTE" refers to the TRCU3 at the remote location which is connected to the optically remoted (switching) module (ORM).

4. **SYSTEM RESPONSE**

   **NG**  = No good. The request has been denied. The message syntax is valid, but the request could not be processed. Refer to the APP:CM-IM-REASON appendix in the Appendixes section of the Input Messages manual for a list of possible reasons for denying the request. Refer to the SET FRC TRCU3 output manual page.

   **PF**  = Printout follows.

   **RL**  = Retry later. The request cannot be executed now.
5. REFERENCES

Input Message(s):

CLR:FRC–TRCU3

Output Message(s):

CLR FRC–TRCU3
SET FRC–TRCU3

Input Appendix(es):

APP:CM–IM–REASON
**SET:HPRI**

**Software Release:** 5E14 and later  
**Command Group:** MAINT  
**Application:** 5  
**Type:** Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. **PURPOSE**

To requests that a terminal be set up as a high priority terminal.

This input message is for activating the high priority terminal feature. This feature sets terminal priority to high to improve the response time of output messages. Page pokes and command pokes will not be affected.

**WARNING:** Usage of this input message may impact the processing of messages on other terminals as well as some system generated output messages. Other terminals may see some delays in output response times since higher priority is given to messages processed at the selected high priority terminal.

2. **FORMAT**

SET:HPRI[,DUR=a];

3. **EXPLANATION OF MESSAGE**

a = Time duration in minutes (5 to 360). If none is specified, a default of 360 minutes will be used.

4. **SYSTEM RESPONSE**

PF = Printout follows. The request was accepted. Followed by the SET:HPRI output message.

NG = No good. The input message entered is invalid. May also include:

- SPECIAL FEATURE NOT AVAILABLE = Secured feature bit is not turned on.

5. **REFERENCES**

Input Message(s):

- OP:HPRI
- CLR:HPRI

Output Message(s):

- SET:HPRI
SET:IODRV

Software Release: 5E14 and later
Command Group: AM
Application: 5,3B
Type: Input

1. PURPOSE

Requests that the input/output processor (IOP) driver (IODRV) print messages.

Note: Using the SET:IODRV input message without the options turns on all severity levels, handler identifiers, and classes, but does not change the setting for saving IOP error messages.

2. FORMAT

SET:IODRV[:[LVL=a[&a[&a]]],[ID=b[&b[&b...]]],[CLASS=c[&c[&c...]]] [,MSGSAVE]];

3. EXPLANATION OF MESSAGE

MSGSAVE = Save all IOP error messages in the logfile IODRVLOG.

a = Severity level. 1-3, where one is the most severe setting and three is the least severe.

b = Handler identifications. Valid value(s):
   ALL = All IDs.
   APH = Application protocol handler.
   APPL1-APPL5 = Reserved for application handlers.
   CIH = End user interface handler.
   DUIH = Direct user interface handler.
   IOP = Input/output processor driver.
   MAINT = Maintenance handler.
   MTH = Magnetic tape handler.
   NPH = Network protocol handler.
   SCSDH = Scanner and signal distributor handler.
   SDLH = Synchronous data link handler.
   SPH = Session protocol handler.
   TPH = Transport protocol handler.

c = 32 classes available, but none are assigned.

4. SYSTEM RESPONSE

NG = No good. Conflict with system status.
PF = Printout follows. Followed by the SET:IODRV output message.

5. REFERENCES
Input Message(s):

CLR: IODRV
OP: IODRV

Output Message(s):

OP: IODRV
SET: IODRV
SET:ISOL-CM

Software Release: 5E14 and later
Command Group: SYSRCVY
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Requests that the communication module (CM) be isolated from the administrative module (AM). This request configures the message switch control unit (MSCU) so that it operates independent of the AM. The configuration is performed unconditionally. The CM remains isolated until a CLR:ISOL-CM input message is entered, a manual D4 initialization is performed, or isolation is cleared using the application parameter 't' on the EAI page.

This input message is only applicable to offices having CM2-vintage communication modules.

WARNING: While the CM is isolated from the AM, no communication is possible between the AM and SMs or CMPs. Functionality requiring such communication, including common channel signaling (CCS) call processing, and AM-directed maintenance activities will not be available. If an SM's communication link configuration is non-optimal, it may become call processing-isolated when this input message is invoked. This input message should only be used as directed by the System Recovery Manual or by support personnel.

2. FORMAT

SET:ISOL,CM;

3. EXPLANATION OF MESSAGE

No variables.

4. SYSTEM RESPONSE

NG = No good. The request has been denied. The message syntax is valid, but the request could not be processed. Refer to the APP:CM-IM-REASON appendix in the Appendixes section of the Input Messages manual for a list of possible reasons for denying the request.

PF = Printout follows. Followed by a SET:ISOL-CM output message.

5. REFERENCES

Input Message(s):

CLR:ISOL-CM

Output Message(s):

CLR:ISOL-CM
SET:ISOL-CM
Input Appendix(es):

APP:CM-IM-REASON

Other Manual(s):
235-105-110 System Maintenance Requirements and Tools
235-105-220 Corrective Maintenance
235-105-250 System Recovery Procedures
SET:ISOL-SM

Software Release: 5E14 and later
Command Group: SYSRCVY
Application: 5
Type: Input

1. PURPOSE

Requests that a switching module (SM) or a range of SMs be isolated. This request configures communication link hardware to take down level 2 protocol on any active links. The configuration is performed unconditionally. An isolated SM remains isolated until a CLR:ISOL input message is received.

If the SM is a remote switching module (RSM), then the host digital facility interfaces (HDFIs) carrying control channels at the host switching module (HSM) for this RSM will be disabled. The cluster digital facility interfaces (CDFIs) linking the RSM to other members of a multi-module RSM cluster will also be disabled, unless the NOSEP option is specified.

2. FORMAT

SET:ISOL,SM=a[&b][,NOSEP|QLPS|ALL];

3. EXPLANATION OF MESSAGE

ALL = All. Manually isolate the SM from the control time slot (CTS) network, the quad-link packet switch (QLPS) network (if applicable), and any other members of a multimodule RSM (if applicable). This includes disconnecting all equipped communication links (QLNKs)/QLPS communication links (QLNKs)/inter-switching module QLNKs (ISMQLNKs). This is the default option.

NOSEP = Do not isolate RSMs from other members of multi-module RSM clusters.

QLPS = Quad-link packet switch. Manually isolate this SM from the QLPS network only. This includes disconnecting all equipped QLNKs/ISMQLNKs on the SM-2000.

a = SM number, or lower limit of a range of SM numbers. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

b = Upper limit of a range of SM numbers. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

NG = No good. The message was invalid.

PF = Printout follows. Followed by a SET:ISOL-SM output message.

5. REFERENCES

Input Message(s):

CLR:ISOL-SM
Output Message(s):
CLR: ISOL-SM
SET: ISOL-SM

Input Appendix(es):
APP: RANGES
SET:ISUP

Software Release: 5E14 and later
Command Group: CCS
Application: 5
Type: Input

1. PURPOSE

Requests that the trapping and printing of integrated services digital network (ISDN) user part (ISUP) events be turned on. These events will be reported in the REPT:ISUP output message.

2. FORMAT

SET:ISUP=ATPUUI[,DUR=b];

3. EXPLANATION OF MESSAGE

ATPUUI = Access transport parameter (ATP) user-to-user information (UUI).
a = Event to be trapped and printed.
b = Duration (DUR) of ISUP trapping and printing in minutes (range is 1-30) (default is 10).

4. SYSTEM RESPONSE

NG = No good. May also include:
   - SYSTEM TROUBLE = The trap could not be activated due to a problem in the system.
   - TRAP ALREADY SET = The requested trap is already activated.

OK = Good. The request was received and the trap was successfully activated. If any direct signaling events occur, the REPT:ISUP output message will report them until traps are turned off.

5. REFERENCES

Input Message(s):

CLR:ISUP
OP:ST-ISUP

Output Message(s):

OP:ST-ISUP
REPT:ISUP

Other Manual(s):
235-070-100 Administration and Engineering Guidelines
SET:LUCHAN
Software Release: 5E14 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE
Requests that an out-of-service line unit channel (LUCHAN) circuit be set to a specific state. This allows the circuit either to be placed into a deferred maintenance state in which it has no effect on system indicators, or to be returned to the normal maintenance state.

2. FORMAT
SET:LUCHAN=a-b-c-d-e,{DEFR|RMVD};

3. EXPLANATION OF MESSAGE

DEFR = Place the circuit into deferred maintenance state.
RMVD = Place the circuit into standard out-of-service maintenance state.
a = Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
b = Line unit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
c = Service group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
d = Channel board number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
e = Circuit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

NG = No good. The request has been denied. The message syntax is valid, but the request could not be processed. May also include:
- IM OR SM DOES NOT EXIST
- IM OR SM UNEQUIPPED
- UNIT DOES NOT EXIST

PF = Printout follows. Followed by the SET:LUCHAN output message.

RL = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES
Output Message(s):

SET: LUCHAN

Input Appendix(es):

APP: RANGES

MCC Display Page(s):

103y,x - 104y,x (LINE UNIT SERVICE GROUP)
SET:M5-A

Software Release: 5E14 only
Command Group: NMOC
Application: 5
Type: Input

1. PURPOSE

Requests that a package be added to the five-minute (M5) surveillance data set of packages for the on-site network management channel.

2. FORMAT

SET:M5,PKG=a;

3. EXPLANATION OF MESSAGE

a = Package. Valid value(s):
   ASPTF = Advanced services platform toll free counts.
   BNP = Basic number portability measurements.
   CCS = Common channel signaling general service measurements.
   CCSP = Common channel signaling special service measurements.
   CGAP = Code control.
   CLCT = Network management control counts.
   CLDIR = Call direction.
   DLYR = Delayed readiness.
   EON5 = End office nodal phase 5.
   GETSHPC = Government emergency telecommunications service high probability of call completion.
   HPCTG = High probability of call completion trunk group.
   IECSSST = Inter-exchange carrier start signal timeout counts.
   IECSTG = Inter-exchange carrier shared trunk group counts.
   IMA = Additional ineffective machine attempts.
   LN = Leased network action point.
   LNCU = Leased network office-wide measurements for critical users.
   LNNODE = Leased network node-to-node measurements.
   MLNC = Failure to match and no circuit.
   NS = Number services.
   OVRLD = Overload or congestion.
   RRC = Manual reroute trunk group controls.
   SDN = Action control point for software defined networks.
   SVC = Critical service circuits.
   TGFLAG = Trunk group flags.
   TGMEAS = Basic trunk group.
   WBTGMEAS = Wideband trunk group.

4. SYSTEM RESPONSE

NG = No good. Valid value(s):
   INVALID REQUEST = The request has been denied. This office is not equipped to process the
request entered.

PF = Printout follows. Followed by one of the SET:M5-PKG output messages.

5. REFERENCES

Input Message(s):
CLR : M5
OP : M5
OP : M5-PKG

Output Message(s):
SET : M5-PKG

Other Manual(s):
235-190-115 Local and Toll System Features
SET:M5-B

Software Release: 5E15 - 5E16(1)
Command Group: NMOC
Application: 5
Type: Input

1. PURPOSE
Requests that a package be added to the five-minute (M5) surveillance data set of packages for the on-site network management channel.

2. FORMAT
SET:M5,PKG=a;

3. EXPLANATION OF MESSAGE
   
a = Package. Valid value(s):
   
   ASPTF = Advanced services platform toll free counts.
   BICCMCMEAS = Bearer independent call control measurements.
   BNP = Basic number portability measurements.
   CCS = Common channel signaling general service measurements.
   CCSP = Common channel signaling special service measurements.
   CGAP = Code control.
   CLCT = Network management control counts.
   CLDIR = Call direction.
   DLYR = Delayed readiness.
   EON5 = End office nodal phase 5.
   GETSHPC = Government emergency telecommunications service high probability of call completion.
   HPCBICCC = High probability of call completion BICC group.
   HPCTG = High probability of call completion trunk group.
   IECSSST = Inter-exchange carrier start signal timeout counts.
   IECSTG = Inter-exchange carrier shared trunk group counts.
   IMA = Additional ineffective machine attempts.
   LN = Leased network action point.
   LNCU = Leased network office-wide measurements for critical users.
   LNNODE = Leased network node-to-node measurements.
   MLNC = Failure to match and no circuit.
   NS = Number services.
   OVRLD = Overload or congestion.
   RRC = Manual reroute trunk group controls.
   SDN = Action control point for software defined networks.
   SVC = Critical service circuits.
   TGFLAG = Trunk group flags.
   TGMEAS = Basic trunk group.
   WBTGMEAS = Wideband trunk group.

4. SYSTEM RESPONSE
NG = No good. Valid value(s):
   - INVALID REQUEST = The request has been denied. This office is not equipped to process the request entered.

PF = Printout follows. Followed by one of the SET:M5-PKG output messages.

5. REFERENCES

Input Message(s):

CLR:M5
OP:M5
OP:M5PKG

Output Message(s):

SET:M5–PKG

Other Manual(s):
235-190-115  Local and Toll System Features
SET:M5-C

Software Release: 5E16(2) and later
Command Group: NMOC
Application: 5
Type: Input

1. PURPOSE

Requests that a package be added to the five-minute surveillance data set of packages for the on-site network management channel.

2. FORMAT

SET:M5,PKG=a;

3. EXPLANATION OF MESSAGE

a = Package. Valid value(s):

ASPTF  = Advanced services platform toll free counts.
BICCMES = Bearer independent call control measurements.
BNP  = Basic number portability measurements.
CCS  = Common channel signaling general service measurements.
CCSP = Common channel signaling special service measurements.
CGAP = Code control.
CLCT = Network management control counts.
CLDIR = Call direction.
CMIX = Call mix.
DLYR = Delayed readiness.
EON5 = End office nodal phase 5.
GETSHPC = Government emergency telecommunications service high probability of call completion.
HPCBICC = High probability of call completion BICC group.
HPCTG = High probability of call completion trunk group.
HTRDDC = Hard to reach measurements.
ICMP = Internet protocol/internet control message protocol (IP/ICMP) measurements.
IECSSST = Inter-exchange carrier start signal timeout counts.
IECSTG = Inter-exchange carrier shared trunk group counts.
IMA = Additional ineffective machine attempts.
LN = Leased network action point.
LNCU = Leased network office-wide measurements for critical users.
LNNODE = Leased network node-to-node measurements.
MLNC = Failure to match and no circuit.
NS = Number services.
OVRLD = Overload or congestion.
PKTGRP = Packet group measurements.
RRC = Manual reroute trunk group controls.
SCPF = Stream control transmission protocol measurements.
SDN = Action control point for software defined networks.
SIPT = Session initiated protocol for telephony measurements.
SL = Signaling link.
SVC = Critical service circuits.
TGFLAG = Trunk group flags.
TGMEAS = Basic trunk group.
WBTGMEAS = Wideband trunk group.

4. SYSTEM RESPONSE

NG = No good. May also include:
- INVALID REQUEST = The request has been denied. This office is not equipped to process the request entered.

PF = Printout follows. Followed by one of the SET:M5-PKG output messages.

5. REFERENCES

Input Message(s):

CLR:M5
OP:M5
OP:M5PKG

Output Message(s):

SET:M5-PKG

Other Manual(s):
235-190-115  Local and Toll System Features
SET:MCTSI

Software Release: 5E14 and later
Command Group: SM
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Requests that the specified side of module control/time slot interchange units (MCTSI) be forced to the active state, by using the administrative module intervention (AMI).

WARNING: Use of this message may result in a switch of MCTSI(s). If so, then at least a single process purge will occur in each switching module (SM).

2. FORMAT

SET:MCTSI=a[&b]-c,FRC;

3. EXPLANATION OF MESSAGE

If forcing the units results in a switch, then at least a single process purge will occur.

FRC = Force the unit to the active state.

a = SM number or lower limit for a range of SM numbers. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

b = Upper limit for a range of SM numbers. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

c = Module controller unit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

PF = Printout follows. Followed by the RST:MCTSI output message.

5. REFERENCES

Output Message(s):

RST:MCTSI
SET:MCTSI

Input Appendix(es):

APP: RANGES
SET:MINMODE-CNI

Software Release: 5E14 and later
Command Group: SYSRCVY
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Requests that the common network interface (CNI) system be placed into min mode. In min mode, automatic fault recovery of the CNI system will be inhibited. No escalation from lower to higher levels of initialization will take place, and common channel signaling (CCS) call processing will be shut off.

The CNI system should be put into min mode only in extreme situations when automatic recovery is unsuccessful. The CNI system will not leave min mode until the CLR:MINMODE,CNI TTY input message is entered, or the switch is booted using 42!N!53 or 42!N!54 emergency action interface (EAI) pokes. When the CNI system is put into min mode, a CNI full initialization (level 4) will be performed.

WARNING: This message is CCS service affecting. All CCS call processing service will be discontinued. CNI min mode will remain in effect through all processor initializations until manually cleared using CLR:MINMODE-CNI input message or 42!N!53, 42!N!54, 54 EAI pokes.

2. FORMAT

SET:MINMODE,CNI,LVL4

3. EXPLANATION OF MESSAGE

No variables.

4. SYSTEM RESPONSE

NG = No good. The request was unsuccessful because:
- The office is not equipped with CNI.
- Software level 5 (S5) initialization of CCSINIT failed.
- Some internal error occurred.

PF = Printout follows. The message has been accepted and an output message will follow.

5. REFERENCES

Input Message(s):
CLR:MINMODE-CNI

Output Message(s):
INIT:CNI-LVL
MCC Display Page(s):

(CNI FRAME AND CCS LINK STATUS)
1. PURPOSE

Requests that the selected switching module (SMs) be placed in minimum mode (minmode). This is accomplished by setting the appropriate SM inhibits and executing a high level initialization (SI or FI).

The SM inhibits which are set as a result of this message are minmode, software error checks, hardware error checks, application routine exercises, and application routine audits. In addition, output message brevity control is allowed. Minmode should only be used in extreme emergencies when all other normal recovery procedures have failed. The SM will be placed in a configuration such that all call processing is ignored. This inhibit will remain in effect through all processor initializations (with the exception of EAI input message 54) until manually cleared by the CLR:MINMODE input message or EAI input message ‘n’, which cancels the request.

WARNING: All call processing service will be discontinued.

2. FORMAT

```
SET:MINMODE,SM=a[&b],FI[,PUMP|,NPUMP|,BPUMP][,LSM][,HSM][,RSM][,ORM][,TRM][,DRM];
```

3. EXPLANATION OF MESSAGE

- **BPUMP** = Perform a full SM pump using the backup pump function. This pump uses the control time slots (no special hardware) and may succeed when a normal pump fails; however, it is at least 16 times slower than the normal pump. This option should be used on a pump peripheral controller (PPC) duplex failure of the AM peripheral hardware or failure of the bootstrapper hardware in the SM.

- **HSM** = Select modules of the type host switching module.

- **LSM** = Select modules of the type local switching module.

- **NPUMP** = Perform a full SM pump using the normal pump function.

- **ORM** = Select modules of the type optically remote switching module.

- **PUMP** = Perform a full SM pump at the requested level (FI only). A normal pump (NPUMP) will be used unless a failure occurs, in which case a backup pump (BPUMP) will be selected automatically. This is the recommended option to request a full pump.

- **RSM** = Select modules of the type remote switching module.

- **TRM** = Select modules of the type two mile optically remote switching module.

- **DRM** = Select modules of the type distinctive remote switching module.

- **a** = SM number, or lower limit of a range of SM numbers. Refer to the APP:RANGES appendix in the
Appendixes section of the Input Messages manual.

b = Upper limit of the range of SM numbers. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

c = The desired initialization level. Valid value(s):
   FI = Full initialization (clear all stable calls).
   SI = Selective initialization (clear all transient calls).

4. SYSTEM RESPONSE

IP = In progress. The message was accepted and the request is in progress.

NG = No good. The message was not accepted because:
   - An illegal SM number or invalid range/type combination was specified.
   - An illegal initialization level was specified.
   - An illegal option was specified (only PUMP, NPUMP, or BPUMP are allowed).

5. REFERENCES

Input Message(s):

CLR:MINMODE-SM
INIT:SM
OP:SYSSTAT

Input Appendix(es):

APP:RANGES

Other Manual(s):

235-105-220 Corrective Maintenance
235-105-250 System Recovery Procedures

MCC Display Page(s):

(INH& RCVRY CNTL)
SET:MON-CID

Software Release: 5E15 and later
Command Group: SFTUTIL
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Requests that necessary flags and parameter values are set for the call identification (CID) interface to the operating system for distributed switching (OSDS) monitor.

WARNING: The user is responsible for any effects on system operation that result from the use of this input message. Know the effects of the message before using it.

This message should be used under the guidance of high-level technical support.

2. FORMAT

SET:MON,CID,SM=a[,RST=b],{PORT=c|CLG=d|CLD=e|CHG=f};

3. EXPLANATION OF MESSAGE

a = Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

b = Flag indicating whether the monitor buffer should be reset after each call. The flag must be set to either ON or OFF.

c = The port the user is originating his test call from. This value may be any valid port number from relation FC_PORTTYP.

d = Calling number to be matched in the ISUP IAM before setting the CID bit in the PCBLA. The value may be any valid telephone number.

e = Called number to be matched in the ISUP IAM before setting the CID bit in the PCBLA. The value may be any valid telephone number.

f = Charged number to be matched in the ISUP IAM before setting the CID bit in the PCBLA. The value may be any valid telephone number.

4. SYSTEM RESPONSE

NG = No good. Error in format.
PF = Printout follows. Followed by the SET:MON output message.
RL = Retry later. System resource shortage.
5. REFERENCES

Input Message(s):

OP : MON–CTL
OP : MON–DSP
OP : MON–PID
SET : MON–DATA
SET : MON–FCN
SET : MON–SPEC
SET : MON–WTD

Output Message(s):

SET : MON

Input Appendix(es):

APP : RANGES
SET:MON-DATA

Software Release: 5E14 and later
Command Group: SFTUTIL
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Requests that the specific data for use with the operating system for distributed switching (OSDS) monitor be initialized.

WARNING: The user is responsible for any effects on system operation that result from the use of this input message. Know the effects of the message before using it.

This message should be used under the guidance of high-level technical support. Refer to the TECHNICAL ASSISTANCE portion of the INTRODUCTION section of the Input Messages manual.

Note: An increase in the processor occupancy is directly related to the number of options specified for this message.

2. FORMAT

SET:MON,DATA,(AM|SM=a|CMP=b-c),(PRI=d,|PRG=e,|PRT=f,|PTM=g,|PSG=h,|PST=i,|
PDA=j,|PDM=k,|AD1=l,|AD2=m,|AD3=n,|AD4=o,|AD5=p,|AD6=q,|LA1=r,|LA2=s,|
LA3=t,|TIM=u);

3. EXPLANATION OF MESSAGE

a = Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.


c = Communications module processor (CMP) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

d = 0 through 7. OSDS priority level to be monitored.

e = Operational kernel process (OKP), SM, or CMP program ID not process number of the process to be monitored. Valid value(s):
   - 0 through 259 for OKP.
   - 0 through 649 for SM.
   - 0 through 149 for CMP.
   - 65280 (H'FF00) - All program IDs
   - 61440 (H'F000) - All program IDs except program IDs for priority 0 processes

f = Any valid port number from relation FC_PORTTYP.
g = 0 through 65535 (0 means no filtering). Valid value(s):
- Time in milliseconds for filter value for per event snapshot (OKP).
- Time in 125-microsecond intervals for filter value for per event snapshot (SM|CMP).
- Time period in milliseconds for timed data dump (OKP|SM|CMP).

h = Switch maintenance kernel process (SMKP) program ID not process number of the process to be monitored. Valid value(s):
- 0 through 149.
- 65280 (H'FF00) - All program IDs.
- 61440 (H'F000) - All program IDs except program IDs priority 0 processes.

i = 0 through 65535 (0 means no filtering). Time in milliseconds for filter value for per event snapshot for SMKP.

j = Any hexadecimal value (0 - H'FFFFFFFF). Valid value(s):
- Data to be matched if control flag DAT or [SP6 (SM)] from a previous or subsequent SET:MON-WTD input message is turned on.
- Start time for automatic start/stop.

k = Any hexadecimal value (0 - H'FFFFFFFF). Mask value for data match if control flag DAT or [SP6 (SM)] from a previous or subsequent SET:MON-WTD input message is turned on.

l = Any hexadecimal value (0 - H'FFFFFFFF). Address number one of data to be dumped on per event snapshot.

m = Any hexadecimal value (0 - H'FFFFFFFF). Address number two of data to be dumped on per event snapshot.

n = Any hexadecimal value (0 - H'FFFFFFFF). Address number three of data to be dumped on per event snapshot.

o = Any hexadecimal value (0 - H'FFFFFFFF). Address number four of data to be dumped on per event snapshot.

p = Any hexadecimal value (0 - H'FFFFFFFF). Address number five of data to be dumped on per event snapshot.

q = Any hexadecimal value (0 - H'FFFFFFFF). Address number six of data to be dumped on per event snapshot.

r = Any hexadecimal value (0-H'FFFFFFFF). Process control block link area (PCBLA) first offset of data in PCBLA to be dumped on per event snapshot.

s = Any hexadecimal value (0-H'FFFFFFFF). PCBLA second offset of data in PCBLA to be dumped on per event snapshot.

t = Any hexadecimal value (0-H'FFFFFFFF). Process control block link area PCBLA third offset of data in PCBLA to be dumped on per event snapshot.

u = Not used.
4. SYSTEM RESPONSE

NG = No good. Error in format.
PF = Printout follows. Followed by the SET:MON output message.
RL = Retry later. System resource shortage.

5. REFERENCES

Input Message(s):

- OP:MON-CTL
- OP:MON-DSP
- OP:MON-PID
- SET:MON-FCN
- SET:MON-SPEC
- SET:MON-WTD

Output Message(s):

- SET:MON

Input Appendix(es):

- APP:RANGES
SET:MON-FCN

**Software Release:** 5E14 and later  
**Command Group:** SFTUTIL  
**Application:** 5  
**Type:** Input

**WARNING:** INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. **PURPOSE**

Requests that the special monitor action flags and/or the special monitor function execution flags be set.

**WARNING:** The user is responsible for any effects on system operation that result from the use of this input message. Know the effects of the message before using it.

This message should be used under the guidance of high-level technical support.

**Note:** An increase in the processor occupancy is directly related to the number of options specified for this message.

The SET:MON-FCN input message sets flags in the monitor control word OSCFFLAG. These flags are divided into two groups. The first group of flags, F00 through F15, is used to select special functions that may be pre-defined in the monitor code or added to the monitor code using a temporary software update. The associated function names are OSmonf00 through OSmonf15 in all processors. Setting a flag will allow the function to be executed only once. The actual execution of the special function occurs when the monitor is allowed and the "what to do" (WTD) special function control flag (CTL) is set to ON. Refer to the SET:MON-WTD input message. Repetitive execution of the special function requires the function to set its associated flag upon exit.

The second group of flags, F16 through F31, allows the monitor to gather data about operating system for distributed switching (OSDS) message types, collect per event data on OSDS messages from the administrative module (AM), switching module (SM), or communications module processor (CMP), or automatically inhibit the monitor in the event of a real time or resource overload. The automatic inhibit occurs on the transition from the no overload state to minor or major overload state.

2. **FORMAT**

```
SET:MON,FCN,{AM|SM=a|CMP=b-c},d[=e] [,d[=e]...];
```

3. **EXPLANATION OF MESSAGE**

**Note:** Refer to the Acronym section of the Input Messages manual for the full expansion of acronyms shown in the format.

- **a**  = Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

- **b**  = Message switch side. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

- **c**  = Communications module processor (CMP) number. Refer to the APP:RANGES appendix in the
Appendices section of the Input Messages manual.

\[\text{d} \]

Flag (F00-F31). Valid value(s):

- F00-F15: Special monitor function execution flags (AM|SM|CMP).
- F16: Automatic monitor inhibit on real time overload (AM|SM|CMP).
- F17: Automatic monitor inhibit on resource overload (AM|SM|CMP).
- F18: Not assigned (AM|SM|CMP).
- F19: Not assigned (AM|SM|CMP).
- F20: Number of operating system for distributed switching (OSDS) messages sent by the SM or CMP to another processor (SM|CMP). Not assigned (AM).
- F21: Number of OSDS messages received by the SM or CMP from another processor (SM|CMP). Not assigned (AM).
- F22: Snap shot per event message data for the feature execution (FEX) environment (SM). Not assigned (AM|CMP).
- F23: Snap shot real time clock on per event message data (AM|SM|CMP).
- F24: Number of OSDS message type for operational kernel process (OKP) sent to a UNIX® RTR kernel or supervisory process (AM).
- F25: Snap shot per event message data for OKP messages to an RTR kernel or supervisory process (AM). Not assigned (SM/CMP).
- F26: Number of OSDS message type for RTR messages received by OKP (AM). Number of OSDS message type for messages received from another processor (SM|CMP).
- F27: Snap shot per event message data for RTR messages received by OKP (AM). Not assigned (SM|CMP).
- F28: Number of OSDS message type for messages received by OKP or CMP (AM/CMP). Number of OSDS message types for all messages received (SM).
- F29: Snap shot per event message data for SM/CMP messages within the AM (AM). Snap shot per event message data for all messages within that processor (SM|CMP).
- F30: Number of OSDS message type for OKP messages sent to other processors (AM). Number of OSDS message type for all messages sent to other processors from that processor (SM|CMP).
- F31: Snap shot per event message data for OKP messages sent to other processors (AM). Snap shot per event message data for all messages sent by the SM to other processors (SM|CMP).

\[\text{e} \]

Requested state of special function or action. Valid value(s):

- ON: Enables the function (default).
- OFF: Disables the function.

4. SYSTEM RESPONSE

- NG: No good. Error in format.
- PF: Printout follows. Followed by the SET:MON output message.

5. REFERENCES
Input Message(s):

OP:MON-CTL
OP:MON-DSP
OP:MON-PID
SET:MON-DATA
SET:MON-SPEC
SET:MON-WTD

Output Message(s):

SET:MON

Input Appendix(es):

APP:RANGES
SET:MON-SPEC

Software Release: 5E14 and later
Command Group: SFTUTIL
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Requests that data words for the timed data dump feature or special function use be initialized.

The SET:MON-SPEC message is used to initialize addresses for the timed data dump feature or miscellaneous data for any other use of the dispatch array, that is, data needed by a special function. Parameters S00 through S45 correspond to words 0 through 45 of the monitor buffer dispatch array area. This maps to location "OSHAMDSP" in the AM monitor buffer "OShisarray" and "OSHSMDSP" in the SM monitor buffer "SIhistory", and "OSHSMDSP" in the CMP monitor buffer "SIhistory".

Note: This symbolic address is not the start of the monitor buffer. Data values S00 through S45 are full words (4 bytes).

WARNING: The user is responsible for any effects on system operation that result from the use of this input message. Know the effects of the message before using it.

This message should be used under the guidance of high-level technical support.

Note: An increase in the processor occupancy is directly related to the number of options specified for this message.

2. FORMAT

SET:MON,SPEC,{AM|SM=a|CMP=b-c},d=e...;

3. EXPLANATION OF MESSAGE

Note: Refer to the Acronym section of the Input Messages manual for the full expansion of acronyms shown in the format.

a = Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

b = Messages switch side. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

b = Communications module processor (CMP) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

d = Flag index value (S00-S45).

e = Special data to be set in the monitor buffer in hexadecimal.
4. SYSTEM RESPONSE

NG = No good. Error in format.

PF = Printout follows. Followed by the SET:MON output message.

RL = Retry later. System resource shortage.

5. REFERENCES

Input Message(s):

OP:MON-CTL
OP:MON-DSP
OP:MON-PID
SET:MON-DATA
SET:MON-FCN
SET:MON-WTD

Output Message(s):

SET:MON

Input Appendix(es):

APP:RANGES
SET:MON-WTD

Software Release: 5E14 and later
Command Group: SFTUTIL
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Requests that the monitor control flags that select "What To Do" actions or "What To Dump" fields be set or cleared.

WARNING: The user is responsible for any effects on system operation that result from the use of this input message. Know the effects of the message before using it.

This message should be used under the guidance of high-level technical support.

Note: An increase in the processor occupancy is directly related to the number of options specified for this message.

2. FORMAT

SET:MON,WTD,{AM|SM=a|CMP=b-c},{BEG=[d],END=[d],HUF=[d],HIJ=[d],|HHH=[d],HPD=[d],DUF=[d],DIJ=[d],DPD=[d],DPY=[d],DOX=[d],|HMH=[d],|DMH=[d],HSP=[d],|HSX=[d],DSP=[d],|DSX=[d],HMX=[d],|DMX=[d],|DMP=[d],|DSP=[d],|DSX=[d],HMX=[d],|DMX=[d],|DMP=[d],|SP0=[d],|SP1=[d],|SP2=[d],|CLP=[d],|CLT=[d],|CLT=[d]);

3. EXPLANATION OF MESSAGE

AAA = For the AM, SM or CMP, shorthand that includes options ACL, APP, AID and ASA.
ACL = For the AM, SM or CMP, clock time in milliseconds for per event snapshot.
ADM = For the AM, snapshot address data on MSKP process dispatch.
ADO = For the AM, snapshot address data on OKP process dispatch. For the SM or CMP, snapshot address data on SM process dispatch.
ADS = For the AM, snapshot address data on SMKP process dispatch.
AID = For the AM, SM or CMP, snapshot priority, event identifier, and time in event for per event snapshot.
APC = For the SM or CMP, snapshot data from PCBLA on SM process dispatch.
APP = For the AM, SM or CMP, program ID and PCB index for per event snapshot.
ASA = For the AM, SM or CMP, segment start address of other data for per event snapshot.
BEG = For the AM, SM or CMP, when 'd' = ON, sets the monitor to zero the index (OSCINDEX) into the dispatch array area of the monitor buffer. When 'd' = OFF, cause no action.

CTL = For the AM, SM or CMP, activate the special function control word.

DAD = For the AM, SM or CMP, not used.

DAP = For the AM, SM, or CMP, not used.

DAT = For the AM, SM or CMP, filter on address data match/mismatch for per event data snap shot.

DIJ = For the AM, SM or CMP, per event data snap shot on interject.

DMH = In the SM, filter on port number for per event data snap shot. In the AM or CMP, not used.

DMP = In the AM, per event data snap shot on MSKP program point. In the SM or CMP, not used (SM/CMP).

DMX = In the AM, per event data snap shot on MSKP entry/exit. In the SM or CMP, not used.

DOX = For the AM, SM or CMP, turn on no-wrap flag for dispatch array area.

DPD = For the AM, SM or CMP, per event data snap shot on process dispatch.

DPY = For the AM, SM or CMP, per event data snap shot on priority levels.

DSP = In the AM, per event data snap shot on SMKP process dispatch. In the SM or CMP, not used.

DSX = In the AM, per event data snap shot on SMKP entry/exit. In the SM or CMP, not used.

DUF = In the AM, per event data snap shot on OKP/UNIX® RTR operating system entry/exit. In the SM or CMP, per event data snap shot on foreground.

END = For the AM, SM, or CMP, sets clears the stop flag to inhibit the monitor. Same as the input message INH:MON.

HAP = For the AM, SM, or CMP, not used.

HHH = In the AM, shorthand that includes options HUF, HIJ, HPD, HPY, HSP, HSX, and HMX. In the SM or CMP, shorthand that includes options HUF, HIJ, HPD, and HPY.

HIJ = For the AM, SM or CMP, count & time in milliseconds accumulation for interject.

HMH = In the AM, histogram time in milliseconds in OKP, UNIX® RTR operating system, interject, CCrcvcni, OKP Program ID(s), switch maintenance kernel process (SMKP), SMKP program IDs, message switch kernel process (MSKP) event, fault, and interrupt entries. In the SM or CMP, histogram time in milliseconds in foreground, interject, and program ID(s).

HMX = In the AM, count & time in milliseconds accumulation for MSKP entry/exit. In the SM or CMP, not used.

HPD = For the AM, SM, or CMP, count & time in milliseconds accumulation for program IDs AM/SM/CMP).

HPY = For the AM, SM, or CMP, count & time in milliseconds accumulation for priority levels.
HSP = In the AM, count & time in milliseconds accumulation for SMKP program IDs. In the SM or CMP, not used.

HSX = In the AM, count & time in milliseconds accumulation for SMKP entry/exit. In the SM or CMP, not used.

HUF = In the AM, count & time in milliseconds accumulation for operational kernel process (OKP) and UNIX® RTR operating system. In the SM or CMP, count & time in milliseconds accumulation for foreground.

SEG = For the AM, SM or CMP, process dispatch consecutive segment check.

SP0 = For the AM, SM or CMP, not used.

SP1 = For the AM, SM or CMP, not used.

SP2 = For the AM, SM or CMP, not used.

SP3 = For the AM, SM or CMP, automatic start/stop.

SP4 = For the AM, SM or CMP, inhibit monitor on data address match/mismatch.

SP5 = For the SM, inhibit monitor on process control block link area (PCBLA) match/mismatch.

SP6 = For the AM or CMP, reset dispatch array index on data address match/mismatch. For the SM, reset dispatch array index on PCBLA match/mismatch.

SP7 = For the AM or CMP, not used. For the SM, per event data snapshot on PCBLA match.

a = Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.


c = Communications module processor (CMP) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

d = State of flag. Valid value(s):
    OFF = Clear the flag.
    ON = Set the flag (default).

4. SYSTEM RESPONSE

NG = No good. Error in format.

PF = Printout follows. Followed by the SET:MON output message.

RL = Retry later. System resource shortage.
5. REFERENCES

Input Message(s):

OP:MON-CTL
OP:MON-DSP
OP:MON-PID
SET:MON-DATA
SET:MON-FCN
SET:MON-SPEC

Output Message(s):

SET:MON

Input Appendix(es):

APP:RANGES

December 2003
SET:MWI

Software Release: 5E14 and later
Command Group: TRKLN
Application: 5
Type: Input

1. PURPOSE
Requests that a Message Service System (MSS) message waiting indicator (MWI) be activated for a given seven-digit directory number (DN).

2. FORMAT
SET:MWI,DN=a[,FNAME=b];

3. EXPLANATION OF MESSAGE

a = The seven-digit DN to be validated.

b = The MSS feature on the seven-digit DN. If multiple MSS features are assigned to this DN, the feature must be specified to avoid incorrect feature activation.

4. SYSTEM RESPONSE

NG = No good. May also include:
- MUST ENTER A 7 DIGIT DN = The DN field has more or less than seven digits in it. The DN field must contain digits only.

RL = Retry later. The message was not accepted because of a temporary lack of available resources.

PF = Printout follows. The DN validation request was accepted. Followed by the SET:MWI output message.

5. REFERENCES
Output Message(s):

SET:MWI
SET:NC-A

Software Release: 5E14 only
Command Group: CM
Application: 5
Type: Input

1. PURPOSE
Requests that the network clock (NC) of the office network and timing complex (ONTC) be set to a specific mode.

2. FORMAT
SET:NC=a,{NORM|FAST|HOLD};

3. EXPLANATION OF MESSAGE

FAST = Set the mode to fast phase lock.
HOLD = Set the mode to hold present lock.
NORM = Set the mode to normal phase lock.
a = ONTC side in which the network clock resides. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

NG = No good. The request has been denied. The message syntax is valid, but the request could not be processed. Refer to the APP:CM-IM-REASON appendix in the Appendixes section of the Input Messages manual for a list of possible reasons for denying the request.
PF = Printout follows.
RL = Retry later. The request cannot be executed now because the communication module (CM) deferred maintenance queue (DMQ) is full.

5. REFERENCES

Output Message(s):

SET:NC

Input Appendix(es):

APP:CM-IM-REASON
SET:NC-B

Software Release: 5E15 and later
Command Group: CM
Application: 5
Type: Input

1. PURPOSE
Requests that the network clock (NC) of the office network and timing complex (ONTC) be set to a specific mode.

2. FORMAT
SET:NC=a,{NORM|FAST|HOLD};

3. EXPLANATION OF MESSAGE

FAST = Set the mode to fast phase lock.

HOLD = Set the mode to hold present lock.

NORM = Set the mode to normal phase lock.

a = ONTC side in which the network clock resides. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

NG = No good. The request has been denied. The message syntax is valid, but the request could not be processed. Refer to the APP:CM-IM-REASON appendix in the Appendixes section of the Input Messages manual for a list of possible reasons for denying the request.

PF = Printout follows.

RL = Retry later. The request cannot be executed now because the communication module (CM) deferred maintenance queue (DMQ) is full.

5. REFERENCES

Output Message(s):

SET:NC

Input Appendix(es):

APP:CM-IM-REASON
APP:RANGES
SET:NMTHD
Software Release: 5E14 and later
Command Group: NMOC
Application: 5
Type: Input

1. PURPOSE
Requests that the network management threshold (NMTHD) values be changed for a given type of trunk group indicator in the TRUNK block of the defense switched network network management (DSN NM) Exception Page (page 129). This message is valid only for DSN switches.

2. FORMAT
SET:NMTHD,TYPE=a,VALUE=b-c-d-e;

3. EXPLANATION OF MESSAGE

a  = Indicator type. Valid value(s):
   ACH  = Indicator for attempt per circuit for example, trunks per hour.
   CCH  = Indicator for connection per circuit for example, trunks per hour.
   MU   = Indicator for maintenance usage.

b  = Value for threshold 1.

c  = Value for threshold 2.

d  = Value for threshold 3.

e  = Value for threshold 4.

4. SYSTEM RESPONSE

NG  = No good. May also include:
   - INVALID PARAMETER = The request has been denied. An invalid parameter was entered.

OK  = Good. The request was accepted and completed. The new threshold value is accepted.

RL  = Retry later. May also include:
   - RESOURCE SHORTAGE = The necessary resources are not available.

5. REFERENCES
Input Message(s):
   ASGN:DFSCH
   CLR:NMSCH
   OP:NMTHD
Other Manual(s):
235-900-113   Product Specification

MCC Display Page(s):
  (DSN NM EXCEPTION)
  (OVERLOAD)
SET:OC3

Software Release: 5E16(1) and later
Command Group: SM
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Requests that the automatic protection switch (APS) state of an optical carrier - level 3 (OC3) be set to a higher priority state.

If no higher priority state than a forced switch (FS) exists on an OC3, FS away from side 1 of an OC3 will result in a transfer of the working channel from working side 1 to protect side 0. FS away from side 0 of an OC3 will result in a transfer of the working channel from side 0 to side 1. Manual switch (MS) is similar to FS, except MS is a lower priority request than FS. Setting an OC3 to LP switches away from side 0 and locks it from being used until the lockout is cleared.

WARNING: Switching away from an OC3 side will generate transient errors on the facilities.

When an OC3 side is made unavailable by an FS, LP, or RMV, the OC3 is reduced to a simplex configuration. Leaving a side unavailable may adversely impact service, such as loss of calls, if a failure occurs on the active side.

Switch maintenance activities that cause an OC3 to be removed from service will override any transmission configuration established by this command.

2. FORMAT

SET:OC3=a-b-c-d-e,f;

3. EXPLANATION OF MESSAGE

a = Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

b = Optical interface unit (OIU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

c = Protection group (PG) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

d = OC3 number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

e = Side number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

f = State. Valid value(s):
MS = Manual switch.
FS = Forced switch.
LP = Lockout of protection.
4. SYSTEM RESPONSE

NG = No good. The message form is valid, but the request conflicts with current status.

PF = Printout follows. Followed by the SET:OC3 output message.

RL = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

Input Message(s):

ABT:OC3
RST:OC3
STP:OC3

Output Message(s):

SET:OC3

Input Appendix(es):

APP:RANGES

Other Manual(s):
235-105-110 System Maintenance Requirements and Tools
235-105-220 Corrective Maintenance

MCC Display Page(s):
1491 OIU OC3 STATUS
SET:OC3C

Software Release: 5E16(2) and later
Command Group: SM
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Requests that the automatic protection switch (APS) state of an optical carrier - level 3 concatenated (OC3C) facility be set to a higher priority state.

If no higher priority state than a forced switch (FS) exists on an OC3C, FS away from side 1 of an OC3C will result in a transfer of the working channel from working side 1 to protect side 0. FS away from side 0 of an OC3C will result in a transfer of the working channel from side 0 to side 1.

Manual switch (MS) is similar to FS, except MS is a lower priority request than FS.

Setting an OC3C to LP switches away from side 0 and locks it from being used until the lockout is cleared.

WARNING: Switching away from an OC3C side will generate transient errors on the facilities.

When an OC3C side is made unavailable by an FS, LP, or RMV, the OC3C is reduced to a simplex configuration. Leaving a side unavailable may adversely impact service, such as loss of calls, if a failure occurs on the active side.

Switch maintenance activities that cause an OC3C to be removed from service will override any transmission configuration established by this command.

2. FORMAT

SET:OC3C=a-b-c-d-e,f;

3. EXPLANATION OF MESSAGE

a = Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

b = Optical interface unit (OIU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

c = Protection group (PG) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

d = OC3C number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

e = Side number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

f = State. Valid value(s):
MS = Manual switch.
FS = Forced switch.
LP = Lockout of protection.

4. SYSTEM RESPONSE

NG = No good. The message form is valid, but the request conflicts with current status.
PF = Printout follows. Followed by the SET:OC3C output message.
RL = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

Input Message(s):
ABT:OC3C
RST:OC3C
STP:OC3C

Output Message(s):
SET:OC3C

Input Appendix(es):
APP:RANGES

Other Manual(s):
235-105-110 System Maintenance Requirements and Tools
235-105-220 Corrective Maintenance

MCC Display Page(s):
1491 OIU OC3C STATUS
SET:PB

Software Release: 5E14 and later
Command Group: TRKLN
Application: 5
Type: Input

1. PURPOSE

Requests that the position busy (PB) indicator of certain trunk line work stations (TLWSs) or centralized trunk test units (CTTUs) that are assigned to receive incoming 101 test line calls be set. When this indicator is set, incoming calls will not terminate at this TLWS talk and monitor phone.

When the message is entered for a local TLWS, the talk and monitor phone (at the TLWS) will be "made busy" to 101 test line calls. When this message is entered for a remote TLWS or CTTU, incoming 101 test line calls will not be routed to the talk and monitor phone at that location.

Note: The talk and monitor phone may still be used for other types of testing at the trunk and line work station while the PB indicator is set.

2. FORMAT

SET:PB[,ID=a];

3. EXPLANATION OF MESSAGE

a = ID of the TLWS or CTTU to be set to position busy. Valid value(s) 1-33 and:
  l = Local.
  r = Remote.
  c = CTTU.

If no ID is specified, all LOCAL positions are set to busy.

4. SYSTEM RESPONSE

NA = Not available. The request has not been acknowledged. It is probable the request has been lost.

PF = Printout follows. The request has been accepted. Followed by the SET:PB output message verifying the results of the input message.

RL = Retry later. The request has been denied due to system overload.

5. REFERENCES

Input Message(s):
  CLR:PB
  OP:PB

Output Message(s):
SET: PB
OP: PB

Other Manual(s):
235-100-125  System Description
235-105-110  System Maintenance Requirements and Tools
235-105-220  Corrective Maintenance
235-600-750  Switch Output Message TLWS Progress and Error Reports Appendix

RC/V View(s):

  8.1 [OFFICE PARAMETERS (MISCELLANEOUS)]
  14.0 (VERIFY 101 TEST LINE)
SET:PERPH-SM

Software Release: 5E14 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Requests that the verbose status in a single switching module (SM) or a range of SMs be set.

When the verbose status is SET, peripheral fault recovery (PFR) will output transient peripheral (PERPH) error messages which indicate that no recovery action has occurred (for example ANALYSIS ONLY”). When the verbose status is CLEAR, PFR will only output messages which indicate that a peripheral error has caused recovery actions on a circuit. Output messages may be logged or printed, depending on the message class for each unit type. A REPT [unit] TROUBLE message could appear for any circuit.

2. FORMAT

SET:PERPH,SM=a[&b],VERBOSE ;

3. EXPLANATION OF MESSAGE

a = SM number, or lower limit of range. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

b = Upper limit of range of SM numbers. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

NG = No good. May also include:
- NO SM RANGE PROVIDED = Request has been denied, SM(s) must be specified.
- SM DOES NOT EXIST = Request has been denied, SM number does not match any equipped SM.

OK = Good. The input message has been completed.

RL = Retry later. System resource shortage.

5. REFERENCES

Input Message(s):
CLR:PERPH-SM
OP:LPS

Input Appendix(es):
APP:RANGES
SET:PSALNK

Software Release: 5E16(2) and later
Command Group: MAINT
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Requests that the automatic protection switch (APS) state of a packet switch unit (PSU) asynchronous transfer mode (ATM) link (PSALNK) be set to a higher priority state.

For Format 1, if no higher priority state than forced switch (FS) exists on a channel of a duplex ATM link, setting FS on that channel will result in a ATM link switch switching away from that channel and making that channel unavailable.

Lock out of protection (LP) only applies to the protection channel of a duplex ATM link. Setting an ATM link to LP will result in an ATM link switch switching away from the protection channel and making the protection channel unavailable.

WARNING: When a ATM link channel is made unavailable by the manual FS or LP, the ATM link is reduced to a simplex link. Leaving a channel UNAV may adversely impact service if failure occurs on the other channel, that is signal fail (SF).

2. FORMAT

[1] SET:PSALNK=a-b-c,CH=d,FS;

[2] SET:PSALNK=a-b-c,LP;

3. EXPLANATION OF MESSAGE

FS = Forced switch. Set the specified channel number to FS.

LP = Lock out of protection. Set protection channel to LP.

a = Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

b = PSU number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

c = Link. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

d = Channel number of the link. This field is not required if type of operation of LP is entered.

4. SYSTEM RESPONSE
NG = No good. The request has been denied. The message is valid but the request conflicts with current equipage or status. Refer to the APP:SYS-RESPONSE appendix in the Appendixes section of this Input Messages manual.

PF = Printout follows. Followed by the SET:PSALNK output message.

RL = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

Input Message(s):

CLR:PSALNK
SW:PSALNK

Output Message(s):

SET:PSALNK

Input Appendix(es):

APP:RANGES
APP:SYS-RESPONSE

MCC Display Page(s):

1187.y,x PSU/ATM LINKS STATUS (where y=PSU number and x=SM number)
SET:PSLNK-A

Software Release: 5E14 - 5E15
Command Group: MAINT
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Requests that the automatic protection switch (APS) state of a packet switch unit (PSU) link (PSLNK) be set to a higher priority state.

A PSU link is uniquely identified by the community addresses (CAs) of two PSUs that this PSU link connects. The near end PSU CA can be entered directly in the input message line or can be translated by the switch from the entered PSU equipment number. However, the far end CA can not be specified by the PSU equipment number and must always be entered as PSU CA.

If no higher priority state than forced switch (FS) exists on a channel of a duplex PSU link, setting FS (with any input message line in [1] to [3] in the FORMAT section) on that channel will result in a PSU link switch switching away from that channel and making that channel unavailable.

Lock out of protection (LP) only applies to the protection channel of a duplex PSU link. Setting a PSU link to LP (with any input message line in [4] to [6]) will result in a PSU link switch switching away from the protection channel and making the protection channel unavailable.

NOTE: For gateway protocol handlers (PH) the only valid input message formats are #4 and #8. Other formats will not yield the expected results.

WARNING: When a PSU link channel is made unavailable (UNAV) by the manual FS or LP, the PSU link is reduced to a simplex link. Leaving a channel UNAV may adversely impact service if failure occurs on the other channel, that is signal fail (SF).

2. FORMAT

[1] SET:PSLNK=a-b,CH=d,FS;
[2] SET:PSLNK,PSUCA=a,FARCA=b,CH=d,FS;
[3] SET:PSLNK,PSU=c-0,FARCA=b,CH=d,FS;
[5] SET:PSLNK=a-b,LP;
[6] SET:PSLNK,PSUCA=a,FARCA=b,LP;
[7] SET:PSLNK,PSU=c-0,FARCA=b,LP;
[8] SET:PSLNK,PSUCA=a,LP;

3. EXPLANATION OF MESSAGE

a = Near end PSU community address of the PSU link.
b = Far end PSU community address of the PSU link.

Note: The far end CA must be zero if the PSU link is connected to an ATM switch in a point-to-multipoint configuration network.

c = Switching module (SM) number.

d = Channel number of the PSU link.

Note: This field is not required if type of operation of LP is entered.

FS = Forced switch. Set the specified channel number to FS.

LP = Lock out of protection. Set protection channel to LP.

4. SYSTEM RESPONSE

NG = No good. The request has been denied. The message is valid but the request conflicts with current equipage or status.

PF = Printout follows. Followed by the SET:PSLNK output message.

RL = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

Input Message(s):

CLR:PSLNK
SW:PSLNK

Output Message(s):

SET:PSLNK

MCC Display Page(s):

PSU LINKS STATUS
1. PURPOSE

Requests that the automatic protection switch (APS) state of a packet switch unit (PSU) link (PSLNK) be set to a higher priority state.

A PSU link is uniquely identified by the community addresses (CAs) of two PSUs that this PSU link connects. The near end PSU CA can be entered directly in the input message line or can be translated by the switch from the entered PSU equipment number. However, the far end CA can not be specified by the PSU equipment number and must always be entered as PSU CA.

If no higher priority state than forced switch (FS) exists on a channel of a duplex PSU link, setting FS (Formats 1-3) on that channel will result in a PSU link switch switching away from that channel and making that channel unavailable.

Lock out of protection (LP) only applies to the protection channel of a duplex PSU link. Setting a PSU link to LP (Formats 4-6) will result in a PSU link switch switching away from the protection channel and making the protection channel unavailable.

WARNING: When a PSU link channel is made unavailable by the manual FS or LP, the PSU link is reduced to a simplex link. Leaving a channel UNAV may adversely impact service if failure occurs on the other channel, that is signal fail (SF).

2. FORMAT

[1] SET:PSLNK=a-b,CH=e,FS;

[2] SET:PSLNK,PSUCA=a,FARCA=b,CH=e,FS;

[3] SET:PSLNK,PSU=c-d,FARCA=b,CH=e,FS;

[5] SET:PSLNK=a-b,LP;

[6] SET:PSLNK,PSUCA=a,FARCA=b,LP;

[7] SET:PSLNK,PSU=c-d,FARCA=b,LP;

3. EXPLANATION OF MESSAGE

FS = Forced switch. Set the specified channel number to FS.
LP = Lock out of protection. Set protection channel to LP.

a = Near end PSU community address of the PSU link. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

b = Far end PSU community address of the PSU link. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

The far end CA must be zero if the PSU link is connected to an ATM switch in a point-to-multipoint configuration network.

c = Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

d = PSU number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

e = Channel number of the PSU link. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

This field is not required if type of operation of LP is entered.

4. SYSTEM RESPONSE

NG = No good. The request has been denied. The message is valid but the request conflicts with current equipage or status. Refer to the APP:SYS-RESPONSE appendix in the Appendixes section of the Input Messages manual.

PF = Printout follows. Followed by the SET:PSLNK output message.

RL = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

Input Message(s):

CLR:PSLNK
SW:PSLNK

Output Message(s):

SET:PSLNK

Input Appendix(es):

APP:RANGES
APP:SYS-RESPONSE

MCC Display Page(s):

1187.y PSU LINKS STATUS (where y=PSU number)
SET:PSUCOM-A
Software Release: 5E14 - 5E15
Command Group: SM
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Requests that the specified side of the Packet Switch Unit (PSUCOM) be forced to the active state.

WARNING: Use of this message may result in a switch of the PSUCOM. If the requested PSUCOM is faulty, fault recovery may cause an SM initialization.

This command forces the requested PSUCOM service group active. The command is only valid if the requested PSU is marked a Critical PSU in Recent Change.

2. FORMAT

SET:PSUCOM=a-b-c,FRC;

3. EXPLANATION OF MESSAGE

a = Switching Module(SM) number.
b = PSUCOM unit number (0).
c = Service group number (0 or 1).
FRC = Forced Active state.

4. SYSTEM RESPONSE

NG = No good. May also include:
  - FORCE NOT ALLOWED ON NON-CRITICAL PSU = The requested PSU is not marked a Critical PSU in Recent Change.

PF = Printout follows. Followed by the SET:PSUCOM output message.

5. REFERENCES

Output Message(s):

SET:PSUCOM
SET:PSUCOM-B

Software Release: 5E16(1) and later
Command Group: SM
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Requests that the specified side of the packet switch unit (PSUCOM) be forced to the active state.

WARNING: Use of this message may result in a switch of the PSUCOM. If the requested PSUCOM is faulty, fault recovery may cause an SM initialization.

2. FORMAT

SET:PSUCOM=a-b-c,FRC;

3. EXPLANATION OF MESSAGE

This command forces the requested PSUCOM service group active. The command is only valid if the requested PSU is marked a critical PSU in recent change.

a = Switching module (SM) number.
b = PSU number.
c = Service group number (0 or 1).
FRC = Forced active state.

4. SYSTEM RESPONSE

NG = No good. May also include:
- FORCE NOT ALLOWED ON NON-CRITICAL PSU = The requested PSU is not marked a critical PSU in recent change.

PF = Printout follows. The SET:PSUCOM output message follows.

5. REFERENCES

Output Message(s):

SET:PSUCOM
SET:PUPAGE

Software Release: 5E14 and later
Command Group: NOCHK
Application: 5
Type: Input

1. PURPOSE

Requests that the software update installation page (BWM installation) or program update maintenance page be entered.

2. FORMAT

SET:PUPAGE=HMa;

3. EXPLANATION OF MESSAGE

a = The page to be set. Valid value(s):
  95 = Program update maintenance page.
  96 = BWM installation page.

4. SYSTEM RESPONSE

OK = Good. The message was accepted and the most current status information of the page will be displayed, if any.

5. REFERENCES

None.
1. PURPOSE

Requests that permissions for recent change (RC) access from a specified terminal (TTY) associated with the 3B processor or a specified login id (LOGIN) from the administrative services module (ASM) be set.

2. FORMAT

SET:RCACCESS, {LOGIN="a" | TTY="b"}, ACCESS=c;

3. EXPLANATION OF MESSAGE

- **a** = Name of a login id assigned on the ASM in the office. Because the login ids may have lower case characters in them, it is necessary to surround each id with a pair of quotation marks.

- **b** = Name of a terminal associated with the 3B in the office. Because the terminal names have lower case characters in them, it is necessary to surround each name with a pair of quotation marks. (Refer to Exhibit A).

- **c** = Sets of recent change view access permissions. Numbers entered for the ‘c’ variable must be preceded by B’ (binary), O’ (octal), or H’ (hexadecimal) unless the number is decimal. For decimal values of ‘c’, only the number is needed since decimal is the default. The bits are numbered for reference from right to left. When translated to binary, binary "1" indicates that a representative set of recent change abilities are allowed from LOGIN "a" or TTY "b":

<table>
<thead>
<tr>
<th>Bit Location</th>
<th>RC Ability</th>
</tr>
</thead>
<tbody>
<tr>
<td>0</td>
<td>Lines -- Telephone number (TN) views.</td>
</tr>
<tr>
<td>1</td>
<td>Lines -- Originating equipment (OE) number views.</td>
</tr>
<tr>
<td>2</td>
<td>Lines -- Multi-line hunt group (MLHG) views.</td>
</tr>
<tr>
<td>3</td>
<td>Lines -- Miscellaneous views.</td>
</tr>
<tr>
<td>4</td>
<td>Trunks -- Trunk group number (TGN) member views.</td>
</tr>
<tr>
<td>5</td>
<td>Automatic Call Dist. views.</td>
</tr>
<tr>
<td>6</td>
<td>Trunks -- Miscellaneous views.</td>
</tr>
<tr>
<td>7</td>
<td>Office miscellaneous alarm views.</td>
</tr>
<tr>
<td>8</td>
<td>Digit analysis views.</td>
</tr>
<tr>
<td>9</td>
<td>Routing charging views.</td>
</tr>
<tr>
<td>10</td>
<td>Cutover status views.</td>
</tr>
<tr>
<td>11</td>
<td>Business/residence customer service (BRCS) feature definition views.</td>
</tr>
<tr>
<td>12</td>
<td>Traffic measurement views.</td>
</tr>
<tr>
<td>13</td>
<td>Line &amp; trunk test views.</td>
</tr>
<tr>
<td>14</td>
<td>Common network interface (CCS).</td>
</tr>
<tr>
<td>15</td>
<td>Packet switching unit (PSU) based signaling system 7 (SS7) views.</td>
</tr>
<tr>
<td>16</td>
<td>Communication module (CM) views.</td>
</tr>
<tr>
<td>17</td>
<td>Switching module (SM) and SLC® 96 module views.</td>
</tr>
<tr>
<td>18</td>
<td>SM unit views.</td>
</tr>
<tr>
<td>19</td>
<td>SM pack subpack views.</td>
</tr>
<tr>
<td>20</td>
<td>Operator Services Position System (OSPS) views.</td>
</tr>
<tr>
<td>21</td>
<td>Integrated services digital networks (ISDN) equipment.</td>
</tr>
<tr>
<td>22</td>
<td>ISDN basic rate interface.</td>
</tr>
<tr>
<td>23</td>
<td>Applications processor.</td>
</tr>
<tr>
<td>24</td>
<td>Large data movement.</td>
</tr>
<tr>
<td>25</td>
<td>OSPS toll and assistance/intermediate switching point (ISP) views.</td>
</tr>
<tr>
<td>26</td>
<td>OSPS toll and assistance part II.</td>
</tr>
</tbody>
</table>
### Exhibit A -- TERMINAL IDENTIFICATION FOR USE WITH SET/OP:RCACCESS COMMAND

<table>
<thead>
<tr>
<th>For:</th>
<th>Enter:</th>
</tr>
</thead>
<tbody>
<tr>
<td>MCC</td>
<td>ttya</td>
</tr>
<tr>
<td>(MTTY=0/MTTY=1)</td>
<td>TTY=26 ttyA</td>
</tr>
<tr>
<td>TTY=28</td>
<td>ttyc</td>
</tr>
<tr>
<td>TTY=29</td>
<td>ttyd</td>
</tr>
<tr>
<td>TTY=30</td>
<td>ttye</td>
</tr>
<tr>
<td>TTY=31</td>
<td>ttyf</td>
</tr>
<tr>
<td>TTY=32</td>
<td>ttyG</td>
</tr>
<tr>
<td>TTY=33</td>
<td>ttyH</td>
</tr>
<tr>
<td>TTY=34</td>
<td>ttyI</td>
</tr>
<tr>
<td>TTY=35</td>
<td>ttyJ</td>
</tr>
<tr>
<td>TTY=36</td>
<td>ttyK*</td>
</tr>
<tr>
<td>TTY=37</td>
<td>ttyL*</td>
</tr>
<tr>
<td>TTY=38</td>
<td>ttyM*</td>
</tr>
<tr>
<td>TTY=39</td>
<td>ttyN*</td>
</tr>
<tr>
<td>TTY=40</td>
<td>ttyO*</td>
</tr>
<tr>
<td>TTY=41</td>
<td>ttyP*</td>
</tr>
<tr>
<td>TTY=42</td>
<td>ttyQ*</td>
</tr>
<tr>
<td>TTY=43</td>
<td>ttyR*</td>
</tr>
<tr>
<td>TTY=44</td>
<td>ttyS*</td>
</tr>
<tr>
<td>TTY=45</td>
<td>ttyT</td>
</tr>
<tr>
<td>TTY=46</td>
<td>ttyU</td>
</tr>
<tr>
<td>TTY=47</td>
<td>ttyV</td>
</tr>
<tr>
<td>TTY=48</td>
<td>ttyW</td>
</tr>
<tr>
<td>TTY=49</td>
<td>ttyX</td>
</tr>
<tr>
<td>TTY=50</td>
<td>ttyY</td>
</tr>
<tr>
<td>TTY=51</td>
<td>ttyZ</td>
</tr>
</tbody>
</table>

TTYs 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, and 51 are called Recent Change Operations System (RCOS) users.

Example: To give all RC abilities to terminal tty26, enter variable ‘b’ as ttyA and variable ‘c’ as hexadecimal number FFFFFFF. To allow only trunk-miscellaneous changes from terminal tty3, enter variable ‘b’ as ttyd and variable ‘c’ as hexadecimal number 40.

Note: This input message is executable only on the Master Control Center (MCC).

### 4. SYSTEM RESPONSE

**NG**  = No good. Invalid terminal designation.

**OK**  = Good. The request has been accomplished.

### 5. REFERENCES

Input Message(s):

```
OP: RCACCESS
```

Output Message(s):

```
OP: RCACCESS
```
Other Manual(s):

Where ‘x’ is the release-specific version of the document.

235-118-xxx   *Recent Change Procedures and References Collection*
SET:RCACCESS-B
Software Release: 5E15 and later
Command Group: AUTH
Application: 5
Type: Input

1. PURPOSE

Requests that permissions for recent change (RC) access from a specified terminal (TTY) associated with the 3B processor, a specified login id (LOGIN) from the administrative services module (ASM) be set, an Authority Management Login (AUTHLOGIN), or a Recent Change Security Group (RCSECGRP).

2. FORMAT

SET:RCACCESS[,LOGIN="a"][,TTY="b"][,AUTHLOGIN="c"][,RCSECGRP="d"],ACCESS="e";

3. EXPLANATION OF MESSAGE

a = Name of a login id assigned on the ASM in the office. Because the login ids may have lower case characters in them, it is necessary to surround each id with a pair of quotation marks.

b = Name of a terminal associated with the 3B in the office. Because the terminal names have lower case characters in them, it is necessary to surround each name with a pair of quotation marks. (Refer to Exhibit A).

c = Name of a login assigned through Authority Management in the office. Because the login ids may have lower case characters in them, it is necessary to surround each id with a pair of quotation marks. This parameter is associated with a secured feature. Refer to the SECURED/PROPRIETARY FEATURES portion of the INTRODUCTION section of this manual.

d = Name of the Recent Change Security Group in the office. Because the RC security groups may have lower case characters in them, it is necessary to surround each group name with a pair of quotation marks. This parameter is associated with a secured feature. Refer to the SECURED/PROPRIETARY FEATURES portion of the INTRODUCTION section of this manual.

e = A Set of recent change view access permissions. A string containing the classes and views to allow or disallow. A "+" or "-" in the first column of the string will cause the classes or views in the string to be allowed or disallowed. All other permissions that are currently in force are not changed. If no "+" or "-" exists then the permissions are set only for those classes and views in the string and all others are disallowed. Applying a "-" when there were no previous permissions set is an error. If the empty string (i.e. "") is used then all permissions are disallowed and the permission files are removed for the LOGIN(s), TTY(s), and/or AUTHLOGIN(s). RCSECGRP(s) will only have their permissions set to none when "" is specified. Inclusive ranges for classes and views may be given in the string by placing a dash ("-"), between two classes or views. Or a list of classes and/or views may be entered separated by commas (";"). This string is limited to 29 characters.

<table>
<thead>
<tr>
<th>RC Class</th>
<th>RC Ability</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Telephone number (TN) views.</td>
</tr>
<tr>
<td>2</td>
<td>Originating equipment (OE) number views.</td>
</tr>
<tr>
<td>3</td>
<td>Multi-line hunt group (MLHG) views.</td>
</tr>
<tr>
<td>4</td>
<td>Miscellaneous views.</td>
</tr>
<tr>
<td>5</td>
<td>Trunk group number (TGN) member views.</td>
</tr>
<tr>
<td>6</td>
<td>Automatic Call Dist. views.</td>
</tr>
<tr>
<td>7</td>
<td>Miscellaneous views.</td>
</tr>
<tr>
<td>8</td>
<td>Office miscellaneous alarm views.</td>
</tr>
<tr>
<td>9</td>
<td>Digit analysis views.</td>
</tr>
<tr>
<td>10</td>
<td>Routing charging views.</td>
</tr>
</tbody>
</table>
11 Cutover status views.
12 Business/residence customer service (BRCS) feature definition views.
13 Traffic measurement views.
14 Line & trunk test views.
15 Common network interface (CCS).
16 Packet switching unit (PSU) based signaling system 7 (SS7) views.
17 Communication module (CM) views.
18 Switching module (SM) and SLC®96 module views.
19 SM unit views.
20 SM pack subpack views.
21 Operator Services Position System (OSPS) views.
22 Integrated services digital networks (ISDN) equipment.
23 ISDN basic rate interface.
24 Applications processor.
25 Large data movement.
26 OSPS toll and assistance/intermediate switching point (ISP) views.
27 OSPS toll and assistance part II.
28 Global recent change (RC) - lines views.
29 Wireless network controller (WNC) - lines views.

Exhibit A -- TERMINAL IDENTIFICATION FOR USE WITH SET/OP:RCACCESS COMMAND

<table>
<thead>
<tr>
<th>For:</th>
<th>Enter:</th>
<th>For:</th>
<th>Enter:</th>
</tr>
</thead>
<tbody>
<tr>
<td>MCC (TTY=0/TTY=1)</td>
<td>ttya</td>
<td>TTY=26</td>
<td>ttyA</td>
</tr>
<tr>
<td>TTY=27</td>
<td>ttyB</td>
<td></td>
<td></td>
</tr>
<tr>
<td>TTY=28</td>
<td>ttyC</td>
<td>TTY=2</td>
<td>ttyc</td>
</tr>
<tr>
<td>TTY=29</td>
<td>ttyD</td>
<td>TTY=3</td>
<td>ttyd</td>
</tr>
<tr>
<td>TTY=30</td>
<td>ttyE</td>
<td>TTY=4</td>
<td>ttye</td>
</tr>
<tr>
<td>TTY=31</td>
<td>ttyF</td>
<td>TTY=5</td>
<td>ttyf</td>
</tr>
<tr>
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<td>TTY=19</td>
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<td>tty</td>
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<tr>
<td>TTY=51</td>
<td>ttyZ</td>
<td>SCC primary</td>
<td>ttyz</td>
</tr>
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</table>

Example: To give all RC abilities to terminal tty26, enter variable ‘b’ as ttyA and variable ‘e’ as "1-28,33". To allow only trunk-miscellaneous changes from terminal tty3, enter variable ‘b’ as ttyd and variable ‘e’ as "7".

Note: This input message is executable only on the Master Control Center (MCC).

4. SYSTEM RESPONSE

NG = No good. Invalid terminal designation.
PF = Printout follows. The request has been received. A printout and a response message will follow.

5. REFERENCES

Input Message(s):

OP: RCACCESS

Output Message(s):

SET: RCACCESS
OP: RCACCESS

Other Manual(s):

Where 'x' is the release-specific version of the document.

235-118-251 Recent Change Procedures
235-118-25x Recent Change Reference
**SET:RCLK**

Software Release: 5E14 and later  
Command Group: SM  
Application: 5  
Type: Input

1. PURPOSE

Requests that a remote clock (RCLK) circuit be set to a specific mode.

2. FORMAT

```
SET:RCLK=a-b, {NORM|FAST|HOLD};
```

3. EXPLANATION OF MESSAGE

- **FAST** = Set to the fast mode of operation. The clock will stay in this mode until it is manually or automatically reconfigured or until the mode is manually set to NORM or HOLD.
- **HOLD** = Set the mode to hold last known phase lock.
- **NORM** = Set to the normal mode of operation.
- **a** = Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
- **b** = RCLK side. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

- **NG** = No good. May also include:
  - NOT STARTED UNIT IN GROWTH STATE
  - SM DOES NOT EXIST
  - SM UNEQUIPPED
  - UNIT DOES NOT EXIST
- **PF** = Printout follows. Followed by the SET:RCLK output message.
- **RL** = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

Output Message(s):

```
SET:RCLK
```

Input Appendix(es):

```
APP:RANGES
```
SET:RCSECGRP

Software Release: 5E15 and later
Command Group: AUTH
Application: 5
Type: Input

1. PURPOSE

Requests that a specified terminal (TTY) associated with the 3B processor, a specified login id (LOGIN) the administrative services module (ASM), or an Authority Management Login (AUTHLOGIN), be assigned to a Recent Change Security Group (RCSECGRP). This gives the TTY, LOGIN or AUTHLOGIN the same RC access permissions as those assigned to the group. This input message is associated with a secured feature. Refer to the SECURED/PROPRIETARY FEATURES portion of the INTRODUCTION section of this manual.

2. FORMAT

\[ \text{SET:RCSECGRP="a", [LOGIN="b"] [TTY="c"] [AUTHLOGIN="d"];} \]

3. EXPLANATION OF MESSAGE

- \(a\) = Name of the Recent Change Security Group in the office.
- \(b\) = Name of a login id assigned on the ASM in the office. Because the login ids may have lower case characters in them, it is necessary to surround each id with a pair of quotation marks.
- \(c\) = Name of a terminal associated with the 3B in the office. Because the terminal names have lower case characters in them, it is necessary to surround each name with a pair of quotation marks. (Refer to Exhibit A).
- \(d\) = Name of a login assigned through Authority Management in the office. Because the login ids may have lower case characters in them, it is necessary to surround each id with a pair of quotation marks.

Exhibit A -- TERMINAL IDENTIFICATION FOR USE WITH SET/OP:RCACCESS COMMAND

<table>
<thead>
<tr>
<th>For:</th>
<th>Enter:</th>
<th>For:</th>
<th>Enter:</th>
</tr>
</thead>
<tbody>
<tr>
<td>MCC</td>
<td>ttya</td>
<td>TTY=26</td>
<td>ttyA</td>
</tr>
<tr>
<td>TTY=27</td>
<td>ttyB</td>
<td>TTY=29</td>
<td>ttyC</td>
</tr>
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<td>TTY=30</td>
<td>ttyD</td>
<td>TTY=31</td>
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<td>TTY=34</td>
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</tr>
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<td>TTY=37</td>
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<td>ttyM*</td>
<td>TTY=39</td>
<td>ttyN*</td>
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<td>ttyQ*</td>
<td>TTY=43</td>
<td>ttyR*</td>
</tr>
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<td>TTY=44</td>
<td>ttyS*</td>
<td>TTY=45</td>
<td>ttyT</td>
</tr>
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<td>TTY=46</td>
<td>ttyU</td>
<td>TTY=47</td>
<td>ttyV</td>
</tr>
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<td>TTY=48</td>
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<td>ttyX</td>
</tr>
<tr>
<td>TTY=50</td>
<td>ttyY</td>
<td>SCC ternary</td>
<td>SCC secondary</td>
</tr>
</tbody>
</table>

235-600-700 December 2003

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4. SYSTEM RESPONSE

NG = No good. Invalid terminal designation.

PF = Printout follows. The request has been received. A printout and a response message will follow.

5. REFERENCES

Input Message(s):

OP:RCSECGRP
SET:RCACCESS

Output Message(s):

SET:RCSECGRP
SET:RCACCESS
OP:RCSECGRP

Other Manual(s):

Where 'x' is the release-specific version of the document.

235-118-251 Recent Change Procedures
235-118-25x Recent Change Reference
SET:REORG
Software Release: 5E14 and later
Command Group: ODD
Application: 5
Type: Input

1. PURPOSE
Requests that the time for reorganization of the database relation to run automatically be set to a specific value. The default is 2:00am.

2. FORMAT
SET:REORG,TIME=a-b;

3. EXPLANATION OF MESSAGE
a = Hours (0-23).
b = Minutes (0-59).

4. SYSTEM RESPONSE
OK = Good. The request was accepted.

5. REFERENCES
Input Message(s):
   ALW:REORG
   EXC:REORG
   INH:REORG

Output Message(s):
   REPT:REORG

Other Manual(s):
235-105-220 Corrective Maintenance
1. PURPOSE

Requests that the manual reroute (RR) trunk group control (TGC) for a single trunk group be set.

Note: For the Autoplex® application, this message will not have any effect on the application software. It can be entered, but it will not take effect.

2. FORMAT

SET:RR,TG=a[,DRPCT=b[,ARPCT=c[,CICR=d[,PRR=e[,PIIT=f[,VIATO=g[-g[-g[-g[-g[-g[-g]]]]]]]]]]],ALG=h,VIARR=i[-i[-i[-i[-i[-i[-i]]]]]]],DL=(ALL|j[,j[,j[,j[,j]]]]],DLTYPE=k;

3. EXPLANATION OF MESSAGE

ALL = Reroute trunk group control for all domains in a trunk group. (This option is only valid if variable 'k'= INC.)

a = Trunk group number.

b = Direct route percentage of traffic to control. Valid value(s):
   0 = No control, but collect measurements (default).
   12PT5 = 12.5%.
   25 = 25%.
   37PT5 = 37.5%.
   50 = 50%.
   62PT5 = 62.5%.
   75 = 75%.
   87PT5 = 87.5%.
   100 = 100%, reroute all direct routed traffic. Default is 0%.

c = Alternate route percentage of traffic to control. Valid value(s):
   0 = No control, but collect measurements (default).
   12PT5 = 12.5%.
   25 = 25%.
   37PT5 = 37.5%.
   50 = 50%.
   62PT5 = 62.5%.
   75 = 75%.
   87PT5 = 87.5%.
   100 = 100%; reroute all alternate routed traffic. Default is 0%.

d = Cancel in-chain return option. Valid value(s):
   N = No (default).
Y = Yes.

e = Previously rerouted option. Reroute calls that have been previously rerouted. Valid value(s):
N = No (default).
Y = Yes.

f = International option. Reroute calls that originated internationally. Valid value(s):
N = No (default).
Y = Yes.

g = Ignore congestion signaling. Allow sprayed reroutes to trunk groups even when congestion signals have been received for those trunk groups. Valid value(s):
N = No (default).
Y = Yes.

h = Hunting algorithm. Valid value(s):
ORD = Ordered.
RGLR = Regular.
SPRY = Spray.

i = An ordered list of one to seven trunk group numbers representing the out-of-chain trunk groups.

j = Switching domain list.

k = Switching domain list type. Valid value(s):
EXC = Exclude (control the domain not in the list).
INC = Include (control the domains in the list). ALL is only valid with INC.

4. SYSTEM RESPONSE

NG = No good. May also include:
- INVALID REQUEST = The request has been denied. This office is not equipped to process the request entered.

PF = Printout follows. Followed by the SET:RR output message.

RL = Retry later. May also include:
- RESOURCE SHORTAGE = The necessary resources are not available.

5. REFERENCES

Input Message(s):
CLR:TGC
OP:M5
OP: TGC

Output Message(s):

SET: RR

Other Manual(s):
235-190-115  Local and Toll System Features

MCC Display Page(s):

130 (NM EXCEPTION)
SET:RR-B

Software Release: 5E15 - 5E16(1)
Command Group: NMOC
Application: 5
Type: Input

1. PURPOSE

Requests that the manual reroute (RR) trunk group control (TGC) for a single trunk group be set.

Note: For the AUTOPLEX® application, this message will not have any effect on the application software. It can be entered, but it will not take effect.

2. FORMAT

SET:RR,TG=a,DL={ALL|1[,1[,1[1[,1]]]]}],DLTYPE=m[,IRR=n]
[,CODE=b][,CARR=c][,DRPCT=d][,ARPCT=e][,CICR=f][,PRR=g]
[,PIIT=h],VIATO=i[-i[-i[-i[-i[-i[-i]
[,VIARR=k[-k[-k[-k[-k][-k]]]]]],ALG=j,
VIARR=k[-k[-k[-k[-k[-k]]]]]].

3. EXPLANATION OF MESSAGE

ALL = Reroute trunk group control for all domains in a trunk group. (This option is only valid if variable 'm' = INC.)

a = Trunk group number.

b = Destination code (1 to 10 digits). (Valid character set 0-9). The string is typically of the form NPANXXX where NPA is the area code, NXX is the office code and X is the first of the last four digits of the number. Any of the leftmost subsets, however, can be entered (such as, the area code, the area code followed by one digit of the office code NPAN, and so forth.).

Note: The code could be a full destination code or any left-most subset thereof.

c = The feature group D carrier (0 - 9999).

d = Direct route percentage of traffic to control to hard to reach destinations. Valid value(s):
0 = No control, but collect measurements (default).
12PT5 = 12.5%.
25 = 25%.
37PT5 = 37.5%.
50 = 50%.
62PT5 = 62.5%.
75 = 75%.
87PT5 = 87.5%.
100 = 100%, reroute all direct routed traffic.

In addition to the above, any integer between 0 and 100 may also be specified as a direct route percentage.

e = Alternate route percentage of traffic to control. Valid values are the same as for variable 'd'.
f  = Cancel in-chain return option. Valid value(s):
   N  = No (default).
   Y  = Yes.

g  = Previously rerouted option. Reroute calls that have been previously rerouted. Valid value(s):
   N  = No (default).
   Y  = Yes.

h  = International option. Reroute calls that originated internationally. Valid value(s):
   N  = No (default).
   Y  = Yes.

i  = Ignore congestion signaling. Allow sprayed reroutes to trunk groups even when congestion signals have been received for those trunk groups. Valid value(s):
   N  = No (default).
   Y  = Yes.

j  = Hunting algorithm. Valid value(s):
   ORD = Ordered.
   RGLR = Regular.
   SPRY = Spray.

k  = An ordered list of one to seven trunk group numbers representing the out-of-chain trunk groups.

l  = Switching domain list.

m  = Switching domain list type. Valid value(s):
   EXC = Exclude (control the domain not in the list).
   INC = Include (control the domains in the list). ALL is only valid with INC.

n  = Immediate reroute. Valid value(s):
   N  = No (default).
   Y  = Yes.

4.  SYSTEM RESPONSE

NG  = No good. Valid value(s):
   - INVALID REQUEST = The request has been denied. This office is not equipped to process the request entered.
   - FEATURE NOT AVAILABLE = Due to one or more of the following reasons:
     - The code specific reroute feature is not available.

PF  = Printout follows. Followed by the SET:RR output message.

RL  = Retry later. Valid value(s):
- RESOURCE SHORTAGE = The necessary resources are not available.

5. REFERENCES

Input Message(s):

CLR : TGC
OP : TGC

Output Message(s):

SET : RR

Other Manual(s):

235-190-115  Local and Toll System Features

MCC Display Page(s):

130  (NM EXCEPTION)
1. PURPOSE

Requests that the manual reroute (RR) trunk group control (TGC) for a single trunk group be set.

**NOTE:** For the AUTOPLEX® application, this message will not have any effect on the application software. It can be entered, but it will not take effect.

2. FORMAT

```
SET:RR,TG=a,DL={ALL|n[1[1[1[1]]]],DLTYPE=o,IRR=p
[,CODE=b][,CARR=c][,DRPCT=f][,ARPCT=g][,HTRPCT=d][,HTRDPTCT=e]
[,CICR=h][,FRR=i][,PIIT=j][,VIATO=k[-k[-k[-k[-k[-k[-k]])]]],
,ALG=l,VIARR=m[-m[-m[-m[-m[-m[-m]]]]]];
```

3. EXPLANATION OF MESSAGE

- **ALL** = Reroute trunk group control for all domains in a trunk group. (This option is only valid if variable 'o' = INC.)
- **a** = Trunk group number.
- **b** = Destination code (1 to 10 digits). (Valid character set 0-9). The string is typically of the form NPANXXX where NPA is the area code, NXX is the office code and X is the first of the last four digits of the number. Any of the leftmost subsets, however, can be entered (such as, the area code, the area code followed by one digit of the office code NPAN, and so forth.).
  **NOTE:** The code could be a full destination code or any left-most subset thereof.
- **c** = The feature group D carrier (0 - 9999).
- **d** = Direct route percentage of traffic to control to hard-to-reach (HTR) destinations. Valid value(s):
  - 0 = No control, but collect measurements (default).
  - 12PT5 = 12.5%.
  - 25 = 25%.
  - 37PT5 = 37.5%.
  - 50 = 50%.
  - 62PT5 = 62.5%.
  - 75 = 75%.
  - 87PT5 = 87.5%.
  - 100 = 100%, reroute all traffic.

  In addition to the above, any integer between 0 and 100 may also be specified as a route percentage.
- **e** = Alternate route percentage of traffic to control to HTR destinations. Valid values are the same as for variable 'd'.
f = Direct route percentage of non-HTR traffic to control. Valid values are the same as for variable 'd'.

g = Alternate route percentage of non-HTR traffic to control. Valid values are the same as for variable 'd'.

h = Cancel in-chain return option. Valid value(s):
    N = No (default).
    Y = Yes.

i = Previously rerouted option. Reroute calls that have been previously rerouted. Valid value(s):
    N = No (default).
    Y = Yes.

j = International option. Reroute calls that originated internationally. Valid value(s):
    N = No (default).
    Y = Yes.

k = Ignore congestion signaling. Allow sprayed reroutes to trunk groups even when congestion signals have been received for those trunk groups. Valid value(s):
    N = No (default).
    Y = Yes.

l = Hunting algorithm. Valid value(s):
    ORD = Ordered.
    RGLR = Regular.
    SPRY = Spray.

m = An ordered list of one to seven trunk group numbers representing the out-of-chain trunk groups.

n = Switching domain list.

o = Switching domain list type. Valid value(s):
    EXC = Exclude (control the domain not in the list).
    INC = Include (control the domains in the list). ALL is only valid with INC.

p = Immediate reroute. Valid value(s):
    N = No (default).
    Y = Yes.

4. SYSTEM RESPONSE

NG = No good. Valid value(s):
- INVALID REQUEST = The request has been denied. This office is not equipped to process the request entered.
- FEATURE NOT AVAILABLE = Due to one or more of the following reasons:
  - The HTR feature is not available.
  - The code specific reroute feature is not available.
PF = Printout follows. Followed by the SET:RR output message.

RL = Retry later. Valid value(s):
   - RESOURCE SHORTAGE = The necessary resources are not available.

5. REFERENCES

Input Message(s):

CLR:TGC
OP:HTR
OP:TGC

Output Message(s):

SET:RR

Other Manual(s):
235-190-115  Local and Toll System Features

MCC Display Page(s):
130          NM EXCEPTION
SET:RT-FAC

Software Release: 5E14 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE
Requests that a far end loop process (FELP) or a protection configuration request (PROT) be set for a particular digital signal level one (DS1) facility (FAC).

2. FORMAT

SET:RT,FAC=a-b, {FELP | PROT};

3. EXPLANATION OF MESSAGE

FELP = Configure a DS1 FAC to the looped state at the RT (that is, a "virtual pinjack").

PROT = Switch from the specified DS1 FAC to the protection line.

a = Site identification number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

b = Remote terminal (RT) DS1 FAC number Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

NG = No good. The request has been denied. The message is valid but the request conflicts with current status.

PF = Printout follows. The request was accepted. Followed by the SET:RT-FAC output message.

RL = Retry later. The request cannot be executed now because the SM is isolated from the administrative module (AM).

5. REFERENCES

Input Message(s):

CLR:RT-FAC
INH:RT-FAC

Output Message(s):

SET:RT-FAC

Input Appendix(es):

APP : RANGES
Other Manual(s):
235-105-110  System Maintenance Requirements and Tools
235-105-220  Corrective Maintenance

MCC Display Page(s):
  187x (IDCU FACILITY)
  188xyy (IDCU REMOTE TERMINAL)
SET:RT-FACOFFN

Software Release: 5E14 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Requests enabling of the option to update the switching module (SM) status indicator to off-normal when a remote terminal (RT) T1 is in an off-normal state. Specifically, it will be updated to "RT PLS" (RT protection line switch) when a T1 facility goes on protection, or to "CKT OOS" (circuit out-of-service) when a T1 facility goes OOS.

2. FORMAT

SET:RT,FACOFFN;

3. EXPLANATION OF MESSAGE

No variables.

4. SYSTEM RESPONSE

OK = Good. The request was accepted and the requested action was completed.
RL = Retry later. The system failed to read a database global parameter.

5. REFERENCES

Input Message(s):

CLR:RT-FACOFFN
OP:RT-FACOFFN

Output Message(s):

OP:RT-FAC-OFF

Other Manual(s):
235-105-110 System Maintenance Requirements and Tools
235-105-220 Corrective Maintenance
SET:S7RPT

**Software Release:** 5E15 and later  
**Command Group:** CCS  
**Application:** 5  
**Type:** Input

1. **PURPOSE**

Selects and modifies the observation type(s) for the whole office.

This input message has no affect if the ALW:S7RPT input message has not been entered.

Need to enter at least one of the parameters.

Cannot enter the "ALL" option with any other option.

2. **FORMAT**

```
SET:S7RPT[,BLOCK=a][,UNBLOCK=b][,RESET=c][,COT=d][,CQ=e][,CVT=f][,ALL=g];
```

3. **EXPLANATION OF MESSAGE**

- a = Block status. Valid value(s):
  - n = Will turn off the blocking messages reporting.
  - y = Will turn on the blocking messages reporting.

- b = Unblock status. Valid value(s):
  - n = Will turn off the unblocking messages reporting.
  - y = Will turn on the unblocking messages reporting.

- c = Reset status. Valid value(s):
  - n = Will turn off the reset messages reporting.
  - y = Will turn on the reset messages reporting.

- d = Continuity status. Valid value(s):
  - n = Will turn off the continuity test (COT) and continuity check request (CCR) messages reporting.
  - y = Will turn on the continuity test (COT) and continuity check request (CCR) messages reporting.

- e = Circuit Query status. Valid value(s):
  - n = Will turn off the circuit query message (CQM) and circuit query response (CQR) message reporting.
  - y = Will turn on the circuit query message (CQM) and circuit query response (CQR) message reporting.

- f = Circuit Validation status. Valid value(s):
  - n = Will turn off the circuit validation test message (CVT) and circuit validation response (CVR) message reporting.
  - y = Will turn on the circuit validation test (CVT) and circuit validation response (CVR)
messages reporting.

g = All status. Valid value(s):
n = Will turn off the blocking, unblocking, reset, cot, cq, and cvt messages reporting.
y = Will turn on the blocking, unblocking, reset, cot, cq, and cvt messages reporting.

4. SYSTEM RESPONSE

NG = No good. May also include:
- FEATURE NOT AVAILABLE = The input message cannot be used in this office. The office should be upgraded.
- S7RPT NOT ALLOWED = The ALW:S7RPT input message must be issued for SET:S7RPT input message to have any affect.
- HARDWARE NOT OPERATIONAL = CCS is not available in the office.
- PARAMETER COMBINATION ERROR = The input message parameter combination is wrong.

PF = Printout follows. Followed by the SET:S7RPT and REPT:S7RPT output messages.

5. REFERENCES

Input Message(s):

ALW:S7RPT
INH:S7RPT
EXC:S7RPT
STP:S7RPT
OP:S7RPT

Output Message(s):

SET:S7RPT
SET:SSTROVRD

Software Release: 5E14 and later
Command Group: NMOC
Application: 5
Type: Input

1. PURPOSE
Requests that all service selective trunk reservation (SSTR) per-trunk-group inhibits be overridden.

2. FORMAT
SET:SSTROVRD;

3. EXPLANATION OF MESSAGE
No variables.

4. SYSTEM RESPONSE

PF = Printout follows. Followed by a SET:SSTROVRD output message.

RL = Retry later. May also include:
   - RESOURCE SHORTAGE = The request could not be accepted because the necessary resources
     are not available.

5. REFERENCES
Input Message(s):
   OP:SSTR
   CLR:SSTROVRD

Output Message(s):
   SET:SSTROVRD
1. PURPOSE

Requests that a (SKIP), cancel-to (CANT), cancel-from (CANF), or cancel reroute overflow (CRO) trunk group control (TGC) on a trunk group be set for immediate activation (manual control).

Note: For the Autoplex® application, this message will not have any effect on the application software. It can be entered, but it will not take effect.

2. FORMAT

SET:TGC,TG=a,CNTL=b[,DRPCT=c][,ARPCT=d][,ANN=e],DL={ALL|f[-f[-f[-f]]]},DLTYPE=g;

3. EXPLANATION OF MESSAGE

ALL = Set trunk group control for all domains on a trunk group. (This option is only valid if variable ‘g’ = INC.)

a = Trunk group number.

b = Control type. Valid value(s):
   CANF = Manual cancel from control.
   CANT = Manual cancel-to control.
   CRO = Manual cancel reroute overflow control.
   SKIP = Manual skip control.

c = Direct route percentage of traffic to control. Valid value(s):
   0 = No control, but collect measurements (default).
   12PT5 = 12.5%.
   25 = 25%.
   37PT5 = 37.5%.
   50 = 50%.
   62PT5 = 62.5%.
   75 = 75%.
   87PT5 = 87.5%.
   100 = 100%, control all direct route traffic.

d = Alternate route percentage of traffic to control. Valid value(s):
   0 = No control but collect measurements (default).
   12PT5 = 12.5%.
   25 = 25%.
   37PT5 = 37.5%.
   50 = 50%.
   62PT5 = 62.5%.
75 = 75%.
87PT5 = 87.5%.
100 = 100% control all alternate route traffic.

e = Announcement (ANN) treatment if blocking occurs. Valid value(s):
   EANN1 = Emergency announcement 1.
   EANN2 = Emergency announcement 2.
   NCA = No circuit announcement.
   NODISP = No announcement.
Note: Default is NODISP. Control types CANT and CANF require an announcement
   (EANN1, EANN2, or NCA).

f = Switching domain list.

= Switching domain list type. Valid value(s):
   EXC = Exclude (control domains not in the list).
   INC = Include (control the domains in the list). ALL is only valid with INC option.

4. SYSTEM RESPONSE

NG = No good. May also include:
   INVALID REQUEST = The request has been denied. This office is not equipped to process the
   request entered.

PF = Printout follows. Followed by the SET:TGC output message.

RL = Retry later. May also include:
   RESOURCE SHORTAGE = The necessary resources are not available.

5. REFERENCES

Input Message(s):
CLR:TGC
OP:M5
OP:TGC
SET:RR

Output Message(s):
SET:TGC

Other Manual(s):
235-190-115  Local and Toll System Features

MCC Display Page(s):
130 (NM EXCEPTION)
SET:TGC-B
Software Release: 5E15 only
Command Group: NMOC
Application: 5
Type: Input

1. PURPOSE
Requests that a (SKIP), cancel-to (CANT), cancel-from (CANF), or cancel reroute overflow (CRO) trunk group control (TGC) on a trunk group be set for immediate activation (manual control).

Note: For the Autoplex® application, this message will not have any effect on the application software. It can be entered, but it will not take effect.

2. FORMAT
SET:TGC,TG=a,CNTL=b[,DRPCT=c][,ARPCT=d][,ANN=e],DL={ALL|f[-f [-f][-f]]},DLTYPE=g;

3. EXPLANATION OF MESSAGE

ALL = Set trunk group control for all domains on a trunk group. (This option is only valid if variable 'g' = INC.)

a = Trunk group number.

b = Control type. Valid value(s):
CANF = Manual cancel from control.
CANT = Manual cancel-to control.
CRO  = Manual cancel reroute overflow control.
SKIP = Manual skip control.

In addition to the above, any integer between 0 and 100 may also be specified as a direct route percentage.

c = Direct route percentage of traffic to control. Valid value(s):
0  = No control, but collect measurements (default).
12PT5 = 12.5%.
25 = 25%.
37PT5 = 37.5%.
50 = 50%.
62PT5 = 62.5%.
75 = 75%.
87PT5 = 87.5%.
100 = 100%, control all direct route traffic.

In addition to the above, any integer between 0 and 100 may also be specified as a direct route percentage.

d = Alternate route percentage of traffic to control. Valid value(s):
0  = No control but collect measurements (default).
12PT5 = 12.5%.
25 = 25%.
37PT5 = 37.5%.
50 = 50%.
62PT5 = 62.5%.
75 = 75%.
87PT5 = 87.5%.
100 = 100% control all alternate route traffic.

In addition to the above, any integer between 0 and 100 may also be specified as an alternate route percentage.

e = Announcement (ANN) treatment if blocking occurs. Valid value(s):
   EANN1 = Emergency announcement 1.
   EANN2 = Emergency announcement 2.
   NCA = No circuit announcement.
   NODISP = No announcement.

Note: Default is NODISP. Control types CANT and CANF require an announcement (EANN1, EANN2, or NCA).

f = Switching domain list.

g = Switching domain list type. Valid value(s):
   EXC = Exclude (control domains not in the list).
   INC = Include (control the domains in the list). ALL is only valid with INC option.

4. SYSTEM RESPONSE

NG = No good. Valid value(s):
   INVALID REQUEST = The request has been denied. This office is not equipped to process the request entered.

PF = Printout follows. Followed by the SET:TGC output message.

RL = Retry later. Valid value(s):
   RESOURCE SHORTAGE = The necessary resources are not available.

5. REFERENCES

Input Message(s):

CLR:TGC
OP:M5
OP:TGC
SET:RR

Output Message(s):

SET:TGC
1. PURPOSE

Requests that a skip, cancel-to, cancel-from, or cancel reroute overflow (CRO) trunk group control (TGC) on a trunk group be set for immediate activation (manual control).

2. FORMAT

`SET:TGC,TG=a,CNTL=b[,DRPCT=c][,ARPCT=d][,ANN=e],DL={ALL|f[-f. . . .[-f[-f]]]},DLTYPE=g;`

3. EXPLANATION OF MESSAGE

- **ALL** = Set trunk group control for all domains on a trunk group. (This option is only valid if variable ‘g’ = INC.)

- **a** = Trunk group number.

- **b** = Control type. Valid value(s):
  - CANF = Manual cancel from control.
  - CANT = Manual cancel-to control.
  - CRO = Manual cancel reroute overflow control.
  - SKIP = Manual skip control.

- **c** = Direct route percentage of traffic to control. Valid value(s):
  - 0 = No control, but collect measurements (default).
  - 12PT5 = 12.5%.
  - 25 = 25%.
  - 37PT5 = 37.5%.
  - 50 = 50%.
  - 62PT5 = 62.5%.
  - 75 = 75%.
  - 87PT5 = 87.5%.
  - 100 = 100%, control all direct route traffic.

In addition to the above, any integer between 0 and 100 may also be specified as a direct route percentage.

- **d** = Alternate route percentage of traffic to control. Valid value(s):
  - 0 = No control but collect measurements (default).
  - 12PT5 = 12.5%.
  - 25 = 25%.
  - 37PT5 = 37.5%.
  - 50 = 50%.
  - 62PT5 = 62.5%.
  - 75 = 75%.
87PT5   = 87.5%.
100     = 100% control all alternate route traffic.

In addition to the above, any integer between 0 and 100 may also be specified as an alternate route
percentage.

e = Announcement (ANN) treatment if blocking occurs. Valid value(s):
EANN1   = Emergency announcement 1.
EANN2   = Emergency announcement 2.
NCA     = No circuit announcement.
NODISP  = No announcement.

Default is NODISP. Control types CANT and CANF require an announcement (EANN1, EANN2, or
NCA).

f = Switching domain list.

Switching domain list type. Valid value(s):
EXC     = Exclude (control domains not in the list).
INC     = Include (control the domains in the list). ALL is only valid with INC option.

4. SYSTEM RESPONSE

NG = No good. May also include:
   - INVALID REQUEST = The request has been denied. This office is not equipped to process the
     request entered.

PF = Printout follows. Followed by the SET:TGC output message.

RL = Retry later. May also include:
   - RESOURCE SHORTAGE = The necessary resources are not available.

5. REFERENCES

Input Message(s):
CLR:TGC
OP:M5
OP:TGC
SET:RR

Output Message(s):
SET:TGC

Other Manual(s):
235-190-115  Local and Toll System Features
1. PURPOSE

Requests that a skip, cancel-to, cancel-from, or cancel reroute overflow (CRO) trunk group control (TGC) on a trunk group be set for immediate activation (manual control).

**NOTE:** For the AUTOPLEX® application, this message will not have any effect on the application software. It can be entered, but it will not take effect.

2. FORMAT

```plaintext
SET:TGC,TG=a,CNTL=b
[,DRPCT=c][,ARPCT=d][,HTRDPCT=e][,HTRAPCT=f][,ANN=g],DL={ALL|h[-h[-h[-h]]]},DLTYPE=i;
```

3. EXPLANATION OF MESSAGE

- **ALL** = Set trunk group control for all domains on a trunk group. (This option is only valid if variable 'c' = INC.)
- **a** = Trunk group number.
- **b** = Control type. Valid value(s):
  - **CANF** = Manual cancel from control.
  - **CANT** = Manual cancel-to control.
  - **CRO** = Manual cancel reroute overflow control.
  - **SKIP** = Manual skip control.
- **c** = Direct route percentage of traffic to control to non hard-to-reach (HTR) destinations. Valid value(s):
  - 0 = No control (default).
  - 12PT5 = 12.5%.
  - 25 = 25%.
  - 37PT5 = 37.5%.
  - 50 = 50%.
  - 62PT5 = 62.5%.
  - 75 = 75%.
  - 87PT5 = 87.5%.
  - 100 = 100%, control all traffic.

In addition to the above, any integer between 0 and 100 may also be specified as a route percentage.

- **d** = Alternate route percentage of traffic to control to non-HTR destinations. Valid values are the same as variable ‘c’.
- **e** = Direct route percentage of traffic to control to destinations assigned to the HTR list. Valid values
are the same as variable 'c'.

\( f \) = Alternate route percentage of traffic to control to destinations assigned to the HTR list. Valid values are the same as variable 'c'.

\( g \) = Announcement (ANN) treatment if blocking occurs. Valid value(s):

- EANN1 = Emergency announcement 1.
- EANN2 = Emergency announcement 2.
- NCA = No circuit announcement.
- NODISP = No announcement.

**NOTE:** Default is NODISP. Control types CANT and CANF require an announcement (EANN1, EANN2, or NCA).

\( h \) = Switching domain list.

\( i \) = Switching domain list type. Valid value(s):

- EXC = Exclude (control domains not in the list).
- INC = Include (control the domains in the list). ALL is only valid with INC option.

### 4. SYSTEM RESPONSE

\( NG \) = No good. Valid value(s):

- INVALID REQUEST = The request has been denied. This office is not equipped to process the request entered.
- FEATURE NOT AVAILABLE = The HTR feature is not available.

\( PF \) = Printout follows. Followed by the SET:TGC output message.

\( RL \) = Retry later. Valid value(s):

- RESOURCE SHORTAGE = The necessary resources are not available.

### 5. REFERENCES

Input Message(s):

- CLR:TGC
- OP:HTR
- OP:TGC
- SET:RR

Output Message(s):

- SET:TGC

Other Manual(s):

235-190-115  *Local and Toll System Features*
SET:TRACE

Software Release: 5E14 and later
Command Group: CCS
Application: 5
Type: Input

1. PURPOSE

Requests that the user be allowed to change the contents of the system trace control block, and therefore to change the operational characteristics of trace.

The TRACE process SET:TRACE joins the terminate class associated with TRACE process tdcp.p. This means that the process will be aborted whenever tdcp.p is aborted by its owner which may be either interprocess message switch (IMS) or an application.

Inserts any specified changes into the system trace control block in the administration module (AM). New detail flags are place in both the user-detail-flag structure and the system-detail-flag structure.

The control unit (CU) parameter specifies what TRACE will process. If CU is YES, the AM software will be traced. If CU is NO, it will not trace the AM software. If CU is set to ONLY, the AM software will be traced without tracing the NP software.

The RFMT keyword requests that a new trace format file be read into main memory from disk. This allows a new trace format file to be installed without requiring an interprocess message switch (IMS) level 3 or 4 initialization.

2. FORMAT

1. SET:TRACE=[((IMEAS[-ITRACE-IOPNS]|ALL)-(h'FFF|0))]
   [CU={YES|NO|ONLY}][,RFMT];

2. SET:TRACE=[((IMEAS[-ITRACE-IOPNS]|ALL)-(h'FFF|0))]
   NP={IUN01 1|IUN32 1-IUN32 5-IUN02 2|NONE};

3. SET:TRACE=[((IMEAS[-ITRACE-IOPNS]|ALL)-(h'FFF|0))]
   NP=IUN01 1:SLOT={1|(1,2,5)}[:CU={YES|NO|ONLY}];

3. EXPLANATION OF MESSAGE

No variables.

4. SYSTEM RESPONSE

OK = Good. The request has been received and completed.

5. REFERENCES

Input Message(s):

ALW:TRACE
INH:TRACE
OP:TRACE

Output Message(s):
ALW:TRACE
INH:TRACE
OP:TRACE
REPT:TRACE
SET:TRACE
1. PURPOSE

Requests that a trap be set for CCS7 type messages by entering the specific trap attributes that are to be matched. The trap can be set to start immediately or at a future time.

Traps will be initiated based on the trap attribute information given. A trap identification number is given for each valid SET:TRAP input message entered. This number will allow tracking of the status of the trap entered. Incoming signaling messages meeting the trap criteria given in this input message will be collected at the nodes and sent to the administrative module (AM).

2. FORMAT

[1]  SET:TRAP,FILENAME="a";

[2]  SET:TRAP,LNKSET=b[,MTYPE=c][,MODE=d][,SOPC=d][,MS=e][,OPC=f][,MS=g]
[,DPC=h][,MS=i][,CGT=j][,MS=k][,CGPC=l][,MS=m][,CGSN=n][,MS=o]
[,CGGT=p][,MS=q][,CDT=r][,MS=s][,CDPC=t][,MS=u][,CDSN=v]
[,MS=w][,CDGT=x][,MS=y][,DOM=z][,MS=a1][,DESA=b1][,MS=c1]
[,DESB=d1][,MS=e1][,BNM=f1][,MS=g1][,VLN=h1][,MS=i1][,RFR=j1]
[,RC=k1][,MS=l1][,DMI=N][,OFSTB=m1-n1]
[,MS=o1][,RTAD=p1][,MS=q1][,ST=r1][,DUR=s1-t1][,MCNT=u1]
[,MGSZE=v1][,RATE=w1][,DEST=x1][,RTDSP=y1][,SAVE|NOSAVE];

[3]  SET:TRAP,LNKR=z1-a2-z1-a2[,MTYPE=c][,MODE=d][,SOPC=d][,MS=e][,OPC=f]
[,MS=g][,DPC=h][,MS=i][,CGT=j][,MS=k][,CGPC=l][,MS=m]
[,CGSN=n][,MS=o][,CGGT=p][,MS=q][,CDT=r][,MS=s][,CDPC=t]
[,MS=u][,CDSN=v][,MS=w][,CDGT=x][,MS=y][,DOM=z][,MS=a1]
[,DESA=b1][,MS=c1][,DESB=d1][,MS=e1][,BNM=f1][,MS=g1][,VLN=h1][,MS=i1]
[,RFR=j1][,RC=k1][,MS=l1][,DMI=N][,OFSTB=m1-n1][,MS=o1]
[,RTAD=p1][,MS=q1][,ST=r1][,DUR=s1-t1][,MCNT=u1]
[,MGSZE=v1][,RATE=w1][,DEST=x1][,RTDSP=y1][,SAVE|NOSAVE];

[4]  SET:TRAP,LNKLST=z1-a2-z1-a2[,MTYPE=c][,MODE=d][,SOPC=d][,MS=e][,OPC=f]
[,MS=g][,DPC=h][,MS=i][,CGT=j][,MS=k][,CGPC=l][,MS=m][,CGSN=n]
[,MS=o][,CGGT=p][,MS=q][,CDT=r][,MS=s][,CDPC=t][,MS=u]
[,CDSN=v][,MS=w][,CDGT=x][,MS=y][,DOM=z][,MS=a1][,DESA=b1]
[,MS=c1][,DESB=d1][,MS=e1][,BNM=f1][,MS=g1][,VLN=h1][,MS=i1]
[,RFR=j1][,RC=k1][,MS=l1][,DMI=N][,OFSTB=m1-n1][,MS=o1]
[,RTAD=p1][,MS=q1][,ST=r1][,DUR=s1-t1][,MCNT=u1][,MGSZE=v1]
[,RATE=w1][,DEST=x1][,RTDSP=y1][,SAVE|NOSAVE];

[5]  SET:TRAP,LNKSET=b:,DMI=Y,:[ST=r1]
[,DUR=s1-t1][,MCNT=u1]
[,RATE=w1][,RTDSP=y1];

[6]  SET:TRAP,LNKLST=z1-a2-z1-a2:,DMI=Y,:[ST=r1]
SET:TRAP, LNKR=z^1-a^2-z^1-a^2:, DMI=Y, [:ST=r^1]
[, DUR=s^1-t^1] [, MCNT=u^1]
[, RATE=w^1] [, RTDSP=y^1];

3. EXPLANATION OF MESSAGE

DMI = Discard message indicator - 'Y' or 'N'. If 'Y' is given, no other trap attribute parameters can be specified.

NOSAVE = Trapped messages on the disk will not be saved.

RTDSP = Real-time display - 'Y' or 'N'. This indicates whether the trapped messages will be printed in real-time to the default destination (that is, MCRT, ROP, SCCS). The default will be 'N'. If 'Y' is given, the trapped messages will be printed to the default destination as soon as they arrive at the AM.

SAVE = Trapped messages on the disk will be saved.

a = Filename (full pathname using lower case where it applies).
Note: SET:TRAP input messages are to be typed in the file just as they would appear if typed manually on the maintenance terminal (MCRT) (that is, if wrap-around occurs with input messages typed on the MCRT, that input message should be typed in the file with wrap-around occurring). All input messages specified in the file must have a proper terminating character (that is, ";") followed by a newline character. There is a limit of five SET:TRAP input messages that can be included in a file because only five simultaneous traps can be activated at one time.

b = Linkset (1 - 255).

c = System 7 (S7) message type. Valid value(s):
- ALL7 = All System 7 signaling messages.
- DCIS = System 7 direct signaling message.
- ECIS7 = System 7 embedded CIS message.
- MREG7 = System 7 maintenance regular messages.
- MSPEC7 = System 7 maintenance special messages.
- ISDN7 = System 7 integrated services digital messages.
- SCCP = System 7 signaling connection control point.
- SNM7 = System 7 signaling network management messages.

d = Source origination point code (SOPC) (3 bytes).

e = Mask field for SOPC (3 bytes).

f = Origination point code (3 bytes).

g = Mask field for OPC (3 bytes).

h = Destination point code (3 bytes).
i = Mask field for DPC (3 bytes).

j = Calling party translation type (1 byte).

k = Mask for calling party translation type (1 byte).

l = Calling party point code (3 bytes).

m = Mask for calling party point code (3 bytes).

n = Calling party sub-system number (1 byte).

o = Mask for calling party sub-system number (1 byte).

p = Calling party global title (up to 6 bytes).
   Note: This attribute is typically the calling party directory number (DN).

q = Mask for calling party DN (up to 6 bytes).

r = Called party translation type (1 byte).

s = Mask for called party translation type (1 byte).

t = Called party point code (3 bytes).

u = Mask for called party point code (3 bytes).

v = Called party sub-system number (1 byte).

w = Mask for called party sub-system number (1 byte).

x = Called party global title (up to 6 bytes).
   Note: This attribute is typically the called party DN.

y = Mask for called party DN (up to 6 bytes).

z = Domain (3 bits).

a = Mask for domain (3 bits).

b = Destination_A field (10 bits).

c = Mask for Destination_A field (10 bits).

d = Destination_B field (10 bits).

e = Mask for Destination_B field (10 bits).

f = Band number (9 bits).

g = Mask for band number (9 bits).

h = Virtual link number (3 bits).

i = Mask for virtual link number (3 bits).
j¹ = Reason for return field (1 byte).

k¹ = Return code (2 bits).

l¹ = Mask for return code (2 bits).

m¹ = Layer 3 offset (in bytes) beginning at 1 byte before the SIO field byte. This value must be a multiple of 2 bytes.

n¹ = Layer 3 bit pattern (4 bytes).

o¹ = Mask for layer 3 bit pattern (4 bytes).

Note: The offset and bit pattern field can be given multiple times when specifying multiple offsets and bit patterns (that is, e¹-f¹, e¹-f¹, e¹-f¹).

p¹ = Return address (15 bits).

q¹ = Mask for return address (15 bits).

Note: The numbers in () reflect the actual size for the fields. Byte quantities should be specified when values are entered in hexadecimal. Only a maximum of 5 fields can be specified for c - h¹.

r¹ = Starting time of trap (given in network time [24-hour format] example, 3:00 P.M. is given as 1500). The default is immediate activation of the trap.

s¹ = Number of hours in duration of trap (Maximum duration is 168 hours [7 days times 24 hours]).

t¹ = Number of minutes for duration of trap. Default duration is five minutes or ten messages, whichever comes first.

u¹ = Maximum number of messages to be trapped and saved. The default is 100 messages.

Note: If neither DUR nor MCNT is given, default values will be taken from DEF_MSGCNT (10) and DEF_DUR (5) respectively. If MCNT is given and DUR is not given, MAX_DUR (168) will be taken as the value of the DUR field and the given MCNT value will be checked against an upper-bound of MTRP_CNT (1000) to preserve system integrity. If DUR is given and MCNT is not given, MAX_MSGCNT (100) will be taken as the value of the MCNT field and the given DUR value will be checked against an upper-bound of MTRP_DUR (7 days) to preserve system integrity. If both MCNT and DUR are given, they will be checked against the values in MTRP_CNT (1000) and MTRP_DUR (7 days) to preserve system integrity.

v¹ = Message size (that is, maximum number of bytes of a trapped message to be saved). This value must be given in multiples of 4 bytes. If no value is given for message size, the user tunable parameter is MAX_MSGSIZE (272 bytes).

w¹ = Rate of trapping for matching messages to be collected will be 1 out of the given rate value (that is, if 10 is specified, then 1 out of every 10 messages will be collected). The default taken will be a trapping rate of 1 per 100 (1-100).

x¹ = Message class number (0-255). Specifies the output class for output of trap information. The default will be the MCRT, ROP, and SCCS (0-255).
\[ y^1 \quad = \text{Yes or no (Y or N).} \]
\[ z^1 \quad = \text{Group number.} \]
\[ a^2 \quad = \text{Member number.} \]
\[ d^2 \quad = \text{Mode for incoming or outgoing trapping. The default is for incoming. Valid value(s): IN = Incoming message type. OUT = Outgoing message type.} \]

Note: Fields requiring a bit pattern value can be specified in either hexadecimal or decimal value with the exception of the global title fields. Global title fields can only be entered in hexadecimal.

4. SYSTEM RESPONSE

PF = Printout follows. Followed by a SET:TRAP output message.

<table>
<thead>
<tr>
<th>Parameters</th>
<th>ISDN 7</th>
<th>SNM 7</th>
<th>NM6 7</th>
<th>MSPE C7</th>
<th>MREG 7</th>
<th>ECIS 7</th>
<th>DCIS</th>
<th>SCC P</th>
<th>ALL7</th>
<th>ALL6</th>
<th>DS6</th>
<th>NM6</th>
<th>Band 6</th>
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<td>T</td>
<td>LNK R</td>
<td>LNK SET</td>
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5. REFERENCES

Input Message(s):

ALW: TRAP
INH: TRAP
OP: TRAP
STOP: TRAP

Output Message(s):

SET: TRAP

Other Manual(s):
235-190-120  Common Channel Signaling Service Features

MCC Display Page(s):

118 (CNI RING STATUS)
1. PURPOSE

Requests that a trap be set for CCS7 type messages by entering the specific trap attributes that are to be matched. The trap can be set to start immediately or at a future time.

Traps will be initiated based on the trap attribute information given. A trap identification number is given for each valid SET:TRAP input message entered. This number will allow tracking of the status of the trap entered. Incoming signaling messages meeting the trap criteria given in this input message will be collected at the nodes and sent to the administrative module (AM).

2. FORMAT

[1] SET:TRAP,FILENAME="a";

[2] SET:TRAP,LNKSET=b[,MTYPE=c][,MODE=p1][,OPC=d][,MS=e]... 
   . . .[,DPC=f][,MS=g][,CGT=h][,MS=i][,CGPC=j][,MS=k][,CGSN=l]... 
   . . .[,MS=m][,CGT=n][,MS=o][,CDT=p][,MS=q][,CDPC=r][,MS=s]... 
   . . .[,CDSN=t][,MS=u][,CDGT=v][,MS=w][,RFR=x][,RC=y][,MS=z]... 
   . . .[,DMI=N][,OFSTB=a1-b1][,MS=c1][,RTAD=d1]... 
   . . .[,MS=e1]:[ST=f1][,DUR=g1-h1][,MCNT=i1]... 
   . . .[,MGSZE=j1][,RATE=k1][,DEST=l1][,RTDSP=m1]... 
   . . .[,SAVE|NOSAVE];

[3] SET:TRAP,LNKR=n1-o1-n1-o1[,MTYPE=c]... 
   . . .[,MODE=p1][,OPC=d][,MS=e][,DPC=f][,MS=g][,CGT=h][,MS=i]... 
   . . .[,CGPC=j][,MS=k][,CGSN=l][,MS=m][,CGT=n][,MS=o][,CDT=p]... 
   . . .[,MS=q][,CDPC=r][,MS=s][,CDSN=t][,MS=u][,CDGT=v][,MS=w]... 
   . . .[,RFR=x][,RC=y][,MS=z][,DMI=N][,OFSTB=a1-b1]... 
   . . .[,MS=c1][,RTAD=d1][,MS=e1]:[ST=f1]... 
   . . .[,DUR=g1-h1][,MCNT=i1][,MGSZE=j1]... 
   . . .[,RATE=k1][,DEST=l1][,RTDSP=m1][,SAVE|NOSAVE];

[4] SET:TRAP,LNKLIST=n1-o1-n1-o1[,MTYPE=c]... 
   . . .[,MODE=p1][,OPC=d][,MS=e][,DPC=f][,MS=g][,CGT=h][,MS=i]... 
   . . .[,CGPC=j][,MS=k][,CGSN=l][,MS=m][,CGT=n][,MS=o][,CDT=p]... 
   . . .[,MS=q][,CDPC=r][,MS=s][,CDSN=t][,MS=u][,CDGT=v][,MS=w]... 
   . . .[,RFR=x][,RC=y][,MS=z][,DMI=N][,OFSTB=a1-b1]... 
   . . .[,MS=c1][,RTAD=d1][,MS=e1]:[ST=f1]... 
   . . .[,DUR=g1-h1][,MCNT=i1][,MGSZE=j1]... 
   . . .[,RATE=k1][,DEST=l1][,RTDSP=m1][,SAVE|NOSAVE];

[5] SET:TRAP,LNKSET=b:,DMI=Y,[ST=f1][,DUR=g1-h1]... 
   . . .[,MCNT=1][,RATE=k1][,RTDSP=m1];

[6] SET:TRAP,LNKLIST=n1-o1-n1-o1:,DMI=Y,[ST=f1]... 
   . . .[,DUR=g1-h1][,MCNT=1][,RATE=k1][,RTDSP=m1];
3. EXPLANATION OF MESSAGE

**DMI**
- Discard message indicator - 'Y' or 'N'. If 'Y' is given, no other trap attribute parameters can be specified.

**NOSAVE**
- Trapped messages on the disk will not be saved.

**RTDSP**
- Real-time display - 'Y' or 'N'. This indicates whether the trapped messages will be printed in real-time to the default destination (that is, MCRT, ROP, SCCS). The default will be 'N'. If 'Y' is given, the trapped messages will be printed to the default destination as soon as they arrive at the AM.

**SAVE**
- Trapped messages on the disk will be saved.

**a**
- Filename (full pathname using lower case where it applies).

Note: SET:TRAP input messages are to be typed in the file just as they would appear if typed manually on the maintenance terminal (MCRT) (that is, if wrap-around occurs with input messages typed on the MCRT, that input message should be typed in the file with wrap-around occurring). All input messages specified in the file must have a proper terminating character (that is, ";") followed by a newline character. There is a limit of five SET:TRAP input messages that can be included in a file because only five simultaneous traps can be activated at one time.

**b**
- Linkset (1 - 255).

**c**
- System 7 (S7) message type. Valid value(s):
  - **ALL7** = All System 7 signaling messages.
  - **BICC7** = System 7 bearer independent call control messages.
  - **MREG7** = System 7 maintenance regular messages.
  - **MSPEC7** = System 7 maintenance special messages.
  - **ISDN7** = System 7 integrated services digital messages.
  - **SCCP** = System 7 signaling connection control point.
  - **SNM7** = System 7 signaling network management messages.

**d**
- Origination point code (3 bytes).

**e**
- Mask field for OPC (3 bytes).

**f**
- Destination point code (3 bytes).

**g**
- Mask field for DPC (3 bytes).

**h**
- Calling party translation type (1 byte).

**i**
- Mask for calling party translation type (1 byte).

**j**
- Calling party point code (3 bytes).

**k**
- Mask for calling party point code (3 bytes).
l = Calling party sub-system number (1 byte).

m = Mask for calling party sub-system number (1 byte).

n = Calling party global title (up to 6 bytes).

Note: This attribute is typically the calling party directory number (DN).

o = Mask for calling party DN (up to 6 bytes).

p = Called party translation type (1 byte).

q = Mask for called party translation type (1 byte).

r = Called party point code (3 bytes).

s = Mask for called party point code (3 bytes).

t = Called party sub-system number (1 byte).

u = Mask for called party sub-system number (1 byte).

v = Called party global title (up to 6 bytes).

Note: This attribute is typically the called party DN.

w = Mask for called party DN (up to 6 bytes).

x = Reason for return field (1 byte).

y = Return code (2 bits).

z = Mask for return code (2 bits).

a₁ = Layer 3 offset (in bytes) beginning at 1 byte before the SIO field byte. This value must be a multiple of 2 bytes.

b₁ = Layer 3 bit pattern (4 bytes).

c₁ = Mask for layer 3 bit pattern (4 bytes).

Note: The offset and bit pattern field can be given multiple times when specifying multiple offsets and bit patterns (that is, a₁-b₁,a₁-b₁,).

d₁ = Return address (15 bits).

e₁ = Mask for return address (15 bits).

Note: The numbers in () reflect the actual size for the fields. Byte quantities should be specified when values are entered in hexadecimal. Only a maximum of 5 fields can be specified for c-v.
4. SYSTEM RESPONSE

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<td>3</td>
<td>SAVE/</td>
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<td>3</td>
<td>NOS</td>
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<td>AVE</td>
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</tr>
</tbody>
</table>
5. REFERENCES

Input Message(s):

ALW: TRAP
INH: TRAP
OP : TRAP
STOP: TRAP

Output Message(s):

SET : TRAP

Other Manual(s):

235-200-115  CNI Common Channel Signaling
235-200-116  Signaling Gateway Common Channel Signaling

MCC Display Page(s):

118  CNI RING STATUS
SET:TROVRD

Software Release: 5E14 and later
Command Group: NMOC
Application: 5
Type: Input

1. PURPOSE

Requests that all trunk reservation (TR) per-trunk-group inhibits be overridden.

2. FORMAT

SET:TROVRD;

3. EXPLANATION OF MESSAGE

No variables.

4. SYSTEM RESPONSE

PF  = Printout follows. Followed by a SET:TROVRD output message.

RL  = Retry later. May also include:
    - RESOURCE SHORTAGE = The necessary resources are not available.

5. REFERENCES

Input Message(s):

CLR:TROVRD
OP:TR

Output Message(s):

SET:TROVRD

Other Manual(s):
235-190-101  Business and Residence Modular Features
235-190-115  Local and Toll System Features

MCC Display Page(s):
130 (NM EXCEPTION)
SET:WSDGTL

Software Release: 5E14 and later
Command Group: TRKLN
Application: 5
Type: Input

1. PURPOSE

Requests setting the trunk and line work station (TLWS) test position (TP) digital testing defaults. The stored defaults are then used when a TST:WSDGTL test is requested and the values are not explicitly set.

2. FORMAT

SET:WSDGTL,TP=a[,TERM=b][,BLKSZ=d][,CHAN=e][,TESTEQ=f][,TRUNK]

3. EXPLANATION OF MESSAGE

CHAN = Channel.
TERM = Termination point.
TESTEQ = Information pertaining to the test equipment being used in the testing.
TRUNK = When present, the SET:WSDGTL defaults are for trunk testing. Otherwise, the testing defaults are for DSL testing (default).

a = TLWS TP number.
b = Termination point for the loopback. Valid value(s):

CUc = Loopback point is a specified basic rate interface transmission extension (BRITE) channel unit (CU). Only valid on U-DSLs. For ANSI U-DSLs, c = 1 through 6. For AMI U-DSLs, c = 1 through 4.

EXT = Loopback is an external connection to the terminal. The digital bit stream is sent out, and it is the terminal's option to send the bits back in the sent format or in an inverted format.

LBK = Loopback test, for a digital trunk, sends the digital bit stream out to the far end office. The far end office sends the bit stream back in the same format. (digital trunks only)

LBKCSU = Loopback test, for a packet-switching digital trunk, sends the digital bit stream out to the channel service unit (CSU). The CSU sends the bit stream back in the same format. Valid for packet switching trunks only.

LBKINV = Loopback test, for a digital trunk, sends the digital bit stream out to the far end office. The far end office sends the bit stream back in the inverted format. (digital trunks only)

LBKOCU = Loopback test, for a packet-switching digital trunk, sends the digital bit stream out to the office channel unit (OCU). The OCU sends the bit stream back in the same format. Valid for speech handler trunks only.

LBKSHT = Loopback test, for a speech handler trunk, sends the digital bit stream in to the speech handler (SH). The SH sends the bit stream back in the same format. Valid for speech handler trunks only.

LT = Loopback point is a physical loopback in the line card. Default value digital subscriber line. (DSL only)

MANSINK = Sets a loopback for a loopback test originated by the far end switch. When the far
end switch sends a digital bit stream, the switch sends the digital bit stream back in the same format. Note: Block size entered is irrelevant when this termination is used. Valid for packet switching trunks only.

MANSRCE = Loopback test, for a packet-switching digital trunk sends the digital bit stream out to the far end switch. The far end switch sends the digital bit stream back in the same format. Note: the far end switch must manually set the loopback prior to running this test. Valid for packet switching trunks only.

NT1 = Loopback point is a physical loopback at the network termination (NT1). Default value for U-DSL. (U-DSL only)

PH = Loopback point is in the protocol handler. (DSL only)

d = Number of bits in the blocks to be sent (1 - 64000, Default: 56000 for DSLs, 64000 for digital trunks).

e = Channel of the DSL (valid for DSLs only) where. Valid value(s):
   ALL = Run the test on all the channels of the DSL.
   B1 = Run the test on the B1-channel.
   B2 = Run the test on the B2-channel.
   D = Run the test on the D-channel.

f = Channel of the DSL for which information pertaining to the test equipment being used in the testing will is. Valid value(s):
   B1 = Display the B1-channel test equipment information.
   B2 = Display the B2-channel test equipment information.
   D = Display the D-channel test equipment information (default).

4. SYSTEM RESPONSE

NG = No good. Refer to the APP:TLWS appendix in the Appendixes section of the Output Messages manual for an explanation of TLWS error responses.

OK = Good. Digital testing defaults set.

5. REFERENCES

Input Message(s):

CLR:WSDGTL
RLS:WSTST
STP:WSTST
TST:WSDGTL

Output Appendix(es):

APP:TLWS

Other Manual(s):
235-100-125 System Description
MCC Display Page(s):

160 (TRUNK & LINE MAINT)
SET:WSFREQ

Software Release: 5E14 and later
Command Group: TRKLN
Application: 5
Type: Input

1. PURPOSE

Requests setting the trunk and line work station (TLWS) test position (TP) frequency and/or level. The stored frequency and level are used when a request for a TST:WSSEND test is performed and no frequency or level are specified or when a TST:WSMEAS test is requested with an associated tone sent simultaneous with the measurement.

This request overwrites the default frequency and level of 1004hz 0db. Use CLR:WSFREQ to reset the test position default frequency and level.

2. FORMAT

SET:WSFREQ,TP=a,FREQ=b,{LVP=c|LVN=d};

3. EXPLANATION OF MESSAGE

FREQ = Frequency in hertz.
LVN = Negative level in decibels.
LVP = Positive level in decibels.
a = TLWS TP number.
b = Frequency in hertz (0-4000). The values 1, 2, and 4 are interpreted as a short-hand encoding of the values 1004, 2804, and 404 Hz respectively.
c = Level in positive tenths of db of the tone (0-30) (for example, +2.4 db is specified as 24).
d = Level in negative tenths of a db of the tone. (for example, -24 db is specified as 240).

4. SYSTEM RESPONSE

NG = No good. Refer to the APP:TLWS appendix in the Appendixes section of the Output Messages Manual for an explanation of TLWS error responses.
OK = Good. Frequency and/or level set.

5. REFERENCES

Input Message(s):

CLR:WSFREQ
RLS:WSTST
STP:WSTST
TST:WSSEND
Output Appendix(es):

APP: TLWS

Other Manual(s):
235-100-125  System Description
235-105-110  System Maintenance Requirements and Tools
235-105-220  Corrective Maintenance

MCC Display Page(s):

160 (TRUNK & LINE MAINT)
SET:WSOPD

Software Release: 5E14 and later
Command Group: TRKLN
Application: 5
Type: Input

1. PURPOSE

Requests to set the digits that are to be used for automatic outpulsing on a trunk associated with the indicated trunk and line work station (TLWS) test position (TP). If a trunk is currently associated with the indicated TP, then the outpulsing will occur with this input message. If no test is occurring, then the digits will be outpulsed whenever a valid test is requested (that is, AC JACK or transmission). A TLWS TP must have already been selected by the seize TP menu input message.

Use the clear outpulse digits menu input message to clear the outpulse digits from the TP memory.

2. FORMAT

SET:WSOPD,TP=a,OPD=b[,FRCD][,MINT=c];

3. EXPLANATION OF MESSAGE

FRCD  = Force outpulsing of digits immediately. This option only has significance for direct inward dialing (DID) and integrated digital carrier unit (IDCU) trunks.

MINT  = Multifarious Intra-Network Trunk.

a  = TLWS TP number.

b  = Digits to be outpulsed for trunk tests (a maximum of 15 digits allowed).

c  = Additional digits for outpulsing over MINT trunks.

4. SYSTEM RESPONSE

Note: If the TLWS talk and monitor (T&M) phone is not busy, it will automatically be brought into the connection.

IP  = Request in progress.

NG  = No good. Refer to the APP:TLWS appendix in the Appendixes section of the Output Messages Manual for an explanation of TLWS error responses.

5. REFERENCES

Input Message(s):

CLR:WSOPD
CONN:WSTRK
SET:WSPOS
Output Message(s):

SET: WSOPD

Output Appendix(es):

APP: TLWS

Other Manual(s):
235-100-125  System Description
235-105-110  System Maintenance Requirements and Tools
235-105-220  Corrective Maintenance
SET:WSPHONE

Software Release: 5E14 and later
Command Group: TRKLN
Application: 5
Type: Input

1. PURPOSE

Requests that the mode of the trunk and line work station (TLWS) talk-and-monitor (T&M) phone connected to the indicated test position (TP) be set.

2. FORMAT

SET:WSPHONE,TP=a[,MODE=b][,DN=c];

3. EXPLANATION OF MESSAGE

DN = Directory number.
a = TLWS TP number.
b = Mode to set the T&M phone. Valid value(s):
MNTR = The user can only listen.
TALK = The user can talk and listen. This is the default value.
TEST = Phone on hold.
OVER = Changes the phone number of a remote talk and monitor connection. The phone associated with this TP using a TLWSR tuple must already have the T&M phone defined as remote. Refer to the SET:WSPOS input message.
c = Directory number to use from this point on when adding a remote talk and monitor (CONN:WSPHONE) phone into the connection.

4. SYSTEM RESPONSE

NG = No good. Refer to the APP:TLWS appendix in the Appendixes section of the Output Messages Manual for an explanation of TLWS error responses.
OK = Good.

5. REFERENCES

Input Message(s):

CONN:WSPHONE
DISC:WSPHONE
SET:WSPOS

Output Appendix(es):

APP:TLWS
Other Manual(s):
235-100-125  System Description
235-105-110  System Maintenance Requirements and Tools
235-105-220  Corrective Maintenance

MCC Display Page(s):

   160 (TRUNK & LINE MAINT)

RC/V View(s):

   14.3 (TRUNK AND LINE WORK STATION)
1. PURPOSE
Requests a trunk and line work station (TLWS) test position (TP) and testing resources (ID) to associate with the terminal issuing this input message.

2. FORMAT

SET:WSPOS[,TP=a][,ID=b];

3. EXPLANATION OF MESSAGE

a = TLWS TP number. This parameter is optional and, if not provided, a search is made to find the lowest unused TP the number of TP that may be acquired concurrently may be modified using the GLTPMAX system parameter and is also affected by the GLTPMAJOR and GLTPMINOR system parameters in overload conditions.

b = TLWS identifier (ID) number. Associates a set of testing resources with a TP. The testing resources are specified using a TLWSR tuple in the ODD database. This is specified using RC/V View 14.3 TRUNK ANND LINE WORK STATION. Multiple TPs may use the same identifier. This parameter is optional and, if not provided, a search is made to find the lowest TLWSR tuple whose DEVID field matches the device identifier of the input terminal.

4. SYSTEM RESPONSE

NG = No good. Refer to the APP:TLWS appendix in the Appendixes section of the Output Messages Manual for an explanation of TLWS error responses.

OK = Good. TP was acquired.

PF = Printout follows. Followed by an OP:WSPOS output message indicating the TP number and the TLWSR tuple number (ID) which were acquired.

RL = Retry later. Refer to the APP:TLWS appendix in the Appendixes section of the Output Messages Manual for an explanation of TLWS error responses.

5. REFERENCES

Other Manual(s):
235-100-125 System Description

MCC Display Page(s):
160 (TRUNK & LINE MAINT)
RC/V View(s):

14.3 (TRUNK AND LINE WORK STATION)
72. SND
1. PURPOSE

Allows the user to send on demand a block or unblock message for bearer independent call control (BICC). This input message will provide this capability with the following side effects:

- If block sending is requested, the far-end office will be prohibited from originating calls until an unblocking, initial address message (IAM), reset circuit (RSC) / group reset (GRS) is sent.

- Block/unblock sending is done without any call instance code (CIC) state change. If block sending is requested, there is no state change done that will prohibit outgoing call selection. If unblock sending is requested, there is no state change done that will allow outgoing call selection.

- There is no immediate indication that the far-end office received the block/unblock message and is indeed remotely blocked.

  Machine-detected interoffice irregularities (MDII) generation would imply the message was not received and/or processed in the far-end office.

  BICC CIC query (BQ) could be used to verify that the far-end office is remotely blocked.

- Previously active block/unblock/reset sending requests are terminated when this command is entered.

  Abnormal acknowledgement processing should be expected, if the previously sent request acknowledges.

Format 1 is used to send on demand a(n) (un)block for an entire BICC group.

Format 2 is used to send on demand a(n) (un)block for one BICC group member or a range of members.

2. FORMAT

[1] SND:BICCMSG,BG=a,MSG=d;

[2] SND:BICCMSG,BGMN=a-b[&c],MSG=d;

3. EXPLANATION OF MESSAGE

a  = BICC group number.

b  = BICC group member number. If a range is used, this will be the lower range value.

c  = BICC group member number. This is only used with a range and will be the upper range value.

d  = Message type, either BLOCK or UNBLOCK.

4. SYSTEM RESPONSE
NG  = No good. May also include:
- BG INVALID = BICC group number not equipped.
- BGMN INVALID = BICC group member number not equipped.
- BG HAS NO ASSOCIATED MEMBERS = BICC group is equipped but it has no associated member.

PF  = Printout follows. Followed by the SND:BICCMGS output message.

5. REFERENCES

Other Manual(s):
235-200-115  CNI Common Channel Signaling
235-200-116  Signaling Gateway Common Channel Signaling
73. ST
ST:ATTS

Software Release: 5E14 and later
Command Group: N/A
Application: 5
Type: Input

1. PURPOSE

Places a specified ATTS (Automatic Trunk Test Scheduler) test schedule in an operational state to enable the automatic execution of test sessions defined in that schedule. If the specified schedule is in the "SUSPENDED" state at the time this input message is processed, then that schedule will be placed in the state in which it was operating at the time it was interrupted by the prior STP:ATTS input message. If that previous state is the "RUNNING" state, then operation of the test session will resume from the point of interruption.

2. FORMAT

ST:ATTS,SCHED=a;

3. EXPLANATION OF MESSAGE

a = The number of the ATTS test schedule to be started (1 - 20).

4. SYSTEM RESPONSE

PF = Printout follows. The request has been accepted. Followed by the ST:ATTS output message.

5. REFERENCES

Input Message(s):

DUMP:ATDTA
DUMP:ATLOG
DUMP:ATPRM
OP:ATTS
ST:ATTS
STP:ATTS

Output Message(s):

DUMP:ATDTA
DUMP:ATLOG
DUMP:ATPRM
OP:ATTS
REPT:ATTS
ST:ATTS
STP:ATTS

Other Manual(s):

Where (X) is the release-specific version of the specified manual.
235-118-251  Recent Change Procedures
235-118-25x  Recent Change Reference
235-105-210  Routine Operations and Maintenance
235-100-125  System Description

RC/V View(s):

14.9 (ATTS TEST SESSION SCHEDULE DATA)
14.10 (ATTS TEST SCHEDULE PARAMETER)
ST:DBPROXY

Software Release: 5E15 and later
Command Group: ODD
Application: 5
Type: Input

1. PURPOSE

Perform maintenance actions on the static office-dependent data (ODD) proxy database. The static ODD proxy database is an in sync copy of the static ODD and is located on the administrative services module (ASM). The static ODD proxy database contains several databases. A database exists for each of the processors [administrative module (AM), switching module(s) (SMs), and communication module processor (CMP)], plus a database for the SM's redundant ODD (RODD). Actions performed on the proxy database can be done on individual databases or on the entire set of databases.

The proxy database will be largely transparent to the user in the sense that all initialization, update, and recovery actions will be handled automatically. However, this command allows manual interaction with the proxy database when needed.

2. FORMAT

ST:DBPROXY,ACTION=a[,DB=b[,SM=c][,MAXSIZE=d][,RELNAME=e]];  

3. EXPLANATION OF MESSAGE

<table>
<thead>
<tr>
<th>a</th>
<th>Action to perform on the proxy database. Valid value(s):</th>
</tr>
</thead>
<tbody>
<tr>
<td>OFFLINE</td>
<td>Brings the proxy database server offline.</td>
</tr>
<tr>
<td>ONLINE</td>
<td>Brings the proxy database server online.</td>
</tr>
<tr>
<td>RELCOMPARE</td>
<td>Determines if the data in the relation specified in variable 'e' is the same in both the switch ODD and the proxy database.</td>
</tr>
<tr>
<td>RELOADALL</td>
<td>Reloads all databases from the switch ODDs.</td>
</tr>
<tr>
<td>RELOAD</td>
<td>Reloads the specified database from the switch ODD.</td>
</tr>
<tr>
<td>REMOVEALL</td>
<td>Removes all databases from the proxy database.</td>
</tr>
<tr>
<td>REMOVE</td>
<td>Removes the specified database from the proxy database.</td>
</tr>
<tr>
<td>RESIZE</td>
<td>Changes the maximum size of the specified database to the value specified in variable 'd'.</td>
</tr>
<tr>
<td>RESTART</td>
<td>Restarts the proxy database server.</td>
</tr>
<tr>
<td>SIZEREPORTALL</td>
<td>Gives the current and maximum size of all databases.</td>
</tr>
<tr>
<td>SIZEREPORT</td>
<td>Gives the current and maximum size of the specified database.</td>
</tr>
<tr>
<td>STATUS</td>
<td>Gives the status of the proxy database server.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>b</th>
<th>Database. Valid value(s):</th>
</tr>
</thead>
<tbody>
<tr>
<td>AM</td>
<td>Administrative module.</td>
</tr>
<tr>
<td>CMP</td>
<td>Communications module processor.</td>
</tr>
<tr>
<td>RODD</td>
<td>SM redundant ODD.</td>
</tr>
<tr>
<td>SM</td>
<td>Switching module.</td>
</tr>
</tbody>
</table>

| c       | SM number. This parameter is only valid when variable 'b' is equal to SM. |
| d       | New maximum size value for the specified database, in kilobytes. This parameter is only valid when variable 'a' is equal to RESIZE. |
The current status of the proxy database will be printed if the STATUS action is specified. The status information will indicate if the proxy is available, unavailable, or in some form of recovery. The OFFLINE and ONLINE actions are used to take the proxy database offline and bring it back online. Bringing the proxy offline will block any user access to the proxy and disconnect the proxy from any interaction with the switch. The forwarding of updates from the switch will stop and any proxy recovery actions will be stopped in this case. Bringing the proxy back online will cause the proxy to be resynchronized from the switch ODDs and make it available to user access again. If the proxy was offline for an extended period this could involve a full reload of the databases.

The RELOAD action is used to reload the proxy database for a specific processor from its switch ODD. The RELOADALL action is used to reload the entire proxy database from the switch ODDs. These reload actions can also be used to create a proxy for a specific processor if it does not exist. A processor must be operational to be reloaded or created. The REMOVE action is used to remove the proxy database for a specific processor. The REMOVEALL action is used to remove the entire proxy database. The entire proxy database can only be removed if it is offline. The SIZEREPORT action is used to print the current and maximum space allocated to a specific proxy database. The SIZEREPORTALL action is used to print the current and maximum space allocated to all proxy databases. The RESIZE action changes the maximum space allocated to a specific proxy database. When using the resize action the database must be specified and the new maximum size of the database in Kbytes must be specified in variable ‘d’. Note that the current size of the database may also slightly change when the maximum size is changed with the RESIZE action due to allocation of page tables that are included in the database. The RELCOMPARE action determines if the data in the relation specified in variable ‘e’ is the same in both the switch ODD and the proxy database. A database must be specified with this action and the relation will only be compared on the specified database. The RESTART action restarts the database servers.

Interactions between full office recovery actions and single processor recovery actions are more complicated and will be handled as follows. If a full office recovery action is in progress, no single processor operations are allowed. If the proxy is online, offline (or recovery failed), or removed, then single processor recovery actions will be allowed. Only one single processor recovery action will be allowed at a time. If a single processor recovery is in progress and a full office recovery is requested, the single processor recovery will be stopped and the full office recovery will proceed. A server restart may escalate into a full recovery in this case.

4. SYSTEM RESPONSE

PF = Printout follows. Followed by ST:DBPROXY output message.

5. REFERENCES

Output Message(s):

ST:DBPROXY
ST:LIB

**Software Release:** 5E14 and later  
**Command Group:** ADMIN  
**Application:** 5  
**Type:** Input

1. PURPOSE

Requests that the previously loaded library program be started in the administrative module (AM) and/or switching modules (SMs) specified. If no AM or SM(s) is specified, the AM and all SMs currently running under the specified team will receive the message.

2. FORMAT

```
ST:LIB:TEAM=a[,AM][{,SM=b|,SM=c&&d}];
```

3. EXPLANATION OF MESSAGE

<table>
<thead>
<tr>
<th>AM</th>
<th>Send the message to the library program running in the AM under this team.</th>
</tr>
</thead>
<tbody>
<tr>
<td>a</td>
<td>The team number (1-15) to which this input message applies. This number is specified in the LOAD:LIB input message, and is used so that more than one person may test at the same time, using different team numbers.</td>
</tr>
<tr>
<td>b</td>
<td>SMs that this message should be directed to. The team specified must have a library program running in the SM(s) listed. There can be up to five SM numbers listed. A range could be used instead, as indicated. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.</td>
</tr>
<tr>
<td>c</td>
<td>First SM in the range ’c’ to ’d’. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.</td>
</tr>
<tr>
<td>d</td>
<td>Last SM in the range ’c’ to ’d’. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.</td>
</tr>
</tbody>
</table>

Note: If neither the AM or any SMs are specified, the ST:LIB message is sent to the AM and all SMs with clients loaded under the same team as that specified.

4. SYSTEM RESPONSE

<table>
<thead>
<tr>
<th>NG</th>
<th>No good. Either the team number or SM number(s) is illegal. SMs that have not initialized cannot be sent messages.</th>
</tr>
</thead>
<tbody>
<tr>
<td>PF</td>
<td>Printout follows. Message has been sent to the SMs/AM or team specified.</td>
</tr>
</tbody>
</table>

5. REFERENCES

Input Message(s):

```
LOAD:LIB
```
Output Message(s):

ST: LIB

Input Appendix(es):

APP: RANGES
ST:MODGRW-RSM
Software Release: 5E14 and later
Command Group: ODD
Application: 5
Type: Input

1. PURPOSE

Requests that the relations RT_DNTRAN, RT_SPECRI, RTDN_MHG, and RTDNMPG be populated for new remote
switching modules (RSMs). This message is part of switching module growth procedures.

2. FORMAT

ST:MODGRW,RSM=a;

3. EXPLANATION OF MESSAGE

a = RSM number. Refer to the APP:RANGES appendix in the Appendixes section of the Input
Messages manual.

4. SYSTEM RESPONSE

NG = No good. Input request is not valid.
PF = Printout follows. Request accepted. Followed by an ST:MODGRW-RSM output message.

5. REFERENCES

Output Message(s):
   ST:MODGRW-RSM

Other Manual(s):
   235-105-230 Hardware Change Procedures
1. PURPOSE

Requests a download into switching module (SM) memory from administrative module (AM) disk of the peripheral image or images that reside in the peripheral unit specified on the input message line. This is accomplished with a non-interfering pump that does not interrupt call processing nor drop any calls. This input message must be executed during the growth procedures for the first peripheral of each type grown in on an SM. The SM is no longer pumped with the peripheral images for peripherals that are unequipped.

2. FORMAT

ST:NIPMP,ODRID=a,SM=b[,UCL];

3. EXPLANATION OF MESSAGE

- **UCL** = Unconditionally pump the image(s) for the specified unit although the images may have previously been loaded.

- **a** = SM peripheral hardware unit. Valid value(s):
  - **DNUS** = The set of two digital network unit - synchronous optical network (SONET) (DNU-S) resident software images and hashsums are pumped from AM disk. This includes the DNUSCC and DNUSTMX images and hashsums.
  - **DSP13K** = The 13K DSP software image and hashsum are pumped from the AM disk, for use with the PHV3 speech handlers.
  - **DSPACELP** = The ACELP DSP software image and hashsum are pumped from the AM disk, for use with the PHV3 speech handlers.
  - **DSPEVRC** = The EVRC DSP software image and hashsum are pumped from the AM disk, for use with the PHV3 speech handlers.
  - **DSPVSELP** = The VSELP DSP software image and hashsum are pumped from the AM disk, for use with the PHV3 speech handlers.
  - **GDSF** = The global digital services function (GDSF) resident operational software image and hashsum are pumped from AM disk.
  - **IDCU** = The set of three IDCU resident software images and hashsums are pumped from AM disk. This includes the IDCUCCP, IDCULSI, and IDCUDLP images and hashsums.
  - **ISLU** = The integrated services line unit (ISLU) resident software image and hashsum are pumped from AM disk.
  - **ISLU2** = The integrated services line unit model 2 (ISLU2) resident software image and hashsum are pumped from AM disk.
  - **ISTF** = The integrated services test facility (ISTF) resident operational software image and hashsum are pumped from AM disk. The hardware digital service unit (HDSU) diagnostic software image and hashsum are pumped from AM disk in conjunction with this request if not already pumped.
  - **LDSF** = The logical digital service unit (LDSF) resident operational software image and hashsum are pumped from AM disk. The DSC3 diagnostic software image and hashsum are pumped from AM disk in conjunction with this request if not already pumped.
  - **LDSF2** = The local digital service function 2 (LDSF2) resident operational software image
and hashsum are pumped from AM disk. The DSC4 diagnostic software image and hashsum are pumped from AM disk in conjunction with this request if not already pumped.

**LDSU**
- The LDSU resident operational software image and hashsum are pumped from AM disk. The HDSU diagnostic software image and hashsum are pumped from AM disk in conjunction with this request if not already pumped.

**PH2**
- The set of four protocol handler model 2 (PH2) resident software images and hashsums are pumped from AM disk. This includes the PH2A, PH2G, DDMA, and ODMA images and hashsums.

**PH22S**
- The protocol handler model 22 (PH22) common channel signaling resident software image (PH22S) and hashsums are pumped from the AM disk. If not already loaded, the PH22 IOP image (IP22S) and hashsums will also be pumped.

**PH3C**
- The set of two PH3 ISDN resident software images and hashsums are pumped from the AM disk. This includes the PH3C and OIOP images and hashsums.

**PH3S**
- The set of two protocol handler model 3 (PH3) common channel signaling (CCS) resident software images and hashsums are pumped from the AM disk. This includes the PH3S and IP3S images and hashsums.

**PH4ACC**
- The set of two protocol handler model 4 (PH4) resident access software images and hashsums are pumped from AM disk. This includes the PH4ACCAP and the PH4ISDNIP images and hashsums.

**PH4GWY**
- The set of two PH4 resident gateway software images and hashsums are pumped from AM disk. This includes the PH4GWYAP and the PH4ISDNIP images and hashsums.

**PH4IFR**
- The PH4 resident ISDN frame relay software IOP image (PH4IFRIP) and hashsum regions are pumped from AM disk. If not already loaded, the PH4W LAP and the PH4ISDNIP (needed for diagnostics) images and hashsums will be pumped from AM disk as well.

**PH4PP**
- The PH4 resident package pipe software IOP image (PH4PPIP) and hashsum regions are pumped from AM disk. If not already loaded, the PH4WLAP and the PH4ISDNIP (needed for diagnostics) images and hashsums will be pumped from AM disk as well. These images are used for CDMA and TDMA packet pipe applications.

**PHA1**
- The protocol handler for ATM (PHA1) resident software image (PHA1A) and hashsum are pumped from AM disk.

**PHE1**
- The set of two protocol handler (PHE1) with SCSI/Ethernet resident software images and hashsums are pumped from AM disk.

**PHV1**
- The speech handler (PHV1) resident software image (PHV1C) and hashsum are pumped from AM disk.

**PHV3C**
- The set of two speech handler (PHV3) resident software images and hashsums are pumped from the AM disk. This includes the PHV3C and DSP8K images and hashsums.

**PHV4C**
- The set of two speech handler (PHV4) resident software images and hashsums are pumped from the AM disk. This includes the PHV4C and V4DSPEVRC images and hashsums.

**PI**
- The packet interface (PI) resident software image and hashsum are pumped from AM disk.

**PI2**
- The packet interface model 2 (PI2) resident software image and hashsum are pumped from AM disk.

**RAF**
- The recorded announcement function (RAF) resident operational software image and hashsum are pumped from AM disk. The HDSU diagnostic software image and hashsum are pumped from AM disk in conjunction with this request if not already pumped.

**SAS**
- The operational and diagnostic service announcement system (SAS) resident
software images and hashsums are pumped from AM disk. This includes the SAS and HSAS images and hashsums.

V4DSPEVRC = The EVRC DSP software image and hashsum are pumped from the AM disk, for use with the PHV4 speech handlers.

V4DSP13K = The 13K DSP software image and hashsum are pumped from the AM disk, for use with the PHV4 speech handlers.

V4DSPACELP = The ACELP DSP software image and hashsum are pumped from the AM disk, for use with the PHV4 speech handlers.

V4DSPISLP = The ISLP DSP software image and hashsum are pumped from the AM disk, for use with the PHV4 speech handlers.

V4DSPVSELP = The VSELP DSP software image and hashsum are pumped from the AM disk, for use with the PHV4 speech handlers.

b = SM number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

NG = No good. Request not initiated due to bad syntax or invalid SM specified.

PF = Printout follows. Request accepted. Followed by the REPT:NIPMP output message.

5. REFERENCES

Input Message(s):

STP:NIPMP

Output Message(s):

REPT:NIPMP

Input Appendix(es):

APP:RANGES
1. PURPOSE

Requests a download into switching module (SM) memory from administrative module (AM) disk of the peripheral image or images that reside in the peripheral unit specified on the input message line. This is accomplished with a non-interfering pump that does not interrupt call processing nor drop any calls. This input message must be executed during the growth procedures for the first peripheral of each type grown in on an SM. The SM is no longer pumped with the peripheral images for peripherals that are unequipped.

2. FORMAT

```
ST:NIPMP,ODRID=a,SM=b[,UCL];
```

3. EXPLANATION OF MESSAGE

- **UCL**
  - Unconditionally pump the image(s) for the specified unit although the images may have previously been loaded.

- **a**
  - SM peripheral hardware unit. Valid value(s):
    - **DNUS**
      - The set of two digital network unit - synchronous optical network (SONET) (DNU-S) resident software images and hashsums are pumped from AM disk. This includes the DNUSSCC and DNUSTMX images and hashsums.
    - **DSP13K**
      - The 13K DSP software image and hashsum are pumped from the AM disk, for use with the PHV3 speech handlers.
    - **DSPACELP**
      - The ACELP DSP software image and hashsum are pumped from the AM disk, for use with the PHV3 speech handlers.
    - **DSPEVRC**
      - The EVRC DSP software image and hashsum are pumped from the AM disk, for use with the PHV3 speech handlers.
    - **DSPVSELP**
      - The VSELP DSP software image and hashsum are pumped from the AM disk, for use with the PHV3 speech handlers.
    - **GDSF**
      - The global digital services function (GDSF) resident operational software image and hashsum are pumped from AM disk.
    - **IDCU**
      - The set of three IDCU resident software images and hashsums are pumped from AM disk. This includes the IDCUCP, IDCULSI, and IDCUDLP images and hashsums.
    - **ISLU**
      - The integrated services line unit (ISLU) resident software image and hashsum are pumped from AM disk.
    - **ISLU2**
      - The integrated services line unit model 2 (ISLU2) resident software image and hashsum are pumped from AM disk.
    - **ISTF**
      - The integrated services test facility (ISTF) resident operational software image and hashsum are pumped from AM disk. The hardware digital service unit (HDSU) diagnostic software image and hashsum are pumped from AM disk in conjunction with this request if not already pumped.
    - **LDSF**
      - The logical digital service unit (LDSF) resident operational software image and hashsum are pumped from AM disk. The DSC3 diagnostic software image and hashsum are pumped from AM disk in conjunction with this request if not already pumped.
    - **LDSF2**
      - The local digital service function 2 (LDSF2) resident operational software image
and hashsum are pumped from AM disk. The DSC4 diagnostic software image and hashsum are pumped from AM disk in conjunction with this request if not already pumped.

**LDSU**  
The LDSU resident operational software image and hashsum are pumped from AM disk. The HDSU diagnostic software image and hashsum are pumped from AM disk in conjunction with this request if not already pumped.

**PH2**  
The set of four protocol handler model 2 (PH2) resident software images and hashsums are pumped from AM disk. This includes the PH2A, PH2G, DDMA, and ODMA images and hashsums.

**PH22S**  
The protocol handler model 22 (PH22) common channel signaling resident software image (PH22S) and hashsums are pumped from the AM disk. If not already loaded, the PH22 IOP image (IP22S) and hashsums will also be pumped.

**PH22W**  
The PH22 wireless resident software image (PH22W) and hashsums are pumped from the AM disk. If not already loaded, the PH22 IOP image (IP22W) and hashsums will also be pumped.

**PH3C**  
The set of two PH3 ISDN resident software images and hashsums are pumped from the AM disk. This includes the PH3C and OIOP images and hashsums.

**PH3S**  
The set of two protocol handler model 3 (PH3) common channel signaling (CCS) resident software images and hashsums are pumped from the AM disk. This includes the PH3S and IP3S images and hashsums.

**PH4ACC**  
The set of two protocol handler model 4 (PH4) resident access software images and hashsums are pumped from AM disk. This includes the PH4ACCAP and the PH4ISDNIP images and hashsums.

**PH4GWY**  
The set of two PH4 resident gateway software images and hashsums are pumped from AM disk. This includes the PH4GWYAP and the PH4ISDNIP images and hashsums.

**PH4IFR**  
The PH4 resident ISDN frame relay software IOP image (PH4IFRIP) and hashsum regions are pumped from AM disk. If not already loaded, the PH4WLAP and the PH4ISDNIP (needed for diagnostics) images and hashsums will be pumped from AM disk as well.

**PH4PP**  
The PH4 resident package pipe software IOP image (PH4PPPIP) and hashsum regions are pumped from AM disk. If not already loaded, the PH4WLAP and the PH4ISDNIP (needed for diagnostics) images and hashsums will be pumped from AM disk as well. These images are used for CDMA and TDMA packet pipe applications.

**PHA1**  
The protocol handler for ATM (PHA1) resident software image (PHA1A) and hashsum are pumped from AM disk.

**PHE1**  
The set of two protocol handler (PHE1) with SCSI/Ethernet resident software images and hashsums are pumped from AM disk.

**PHV1**  
The speech handler (PHV1) resident software image (PHV1C) and hashsum are pumped from AM disk.

**PHV3C**  
The set of two speech handler (PHV3) resident software images and hashsums are pumped from the AM disk. This includes the PHV3C and DSP8K images and hashsums.

**PHV4C**  
The set of two speech handler (PHV4) resident software images and hashsums are pumped from the AM disk. This includes the PHV4C and V4DSP8K images and hashsums.

**PHV5C**  
The set of two speech handler (PHV5) resident software images and hashsums are pumped from the AM disk. This includes the PHV5C and V5DSPCDMA images and hashsums.

**PI**  
The packet interface (PI) resident software image and hashsum are pumped from AM disk.

**PI2**  
The packet interface model 2 (PI2) resident software image and hashsum are
pumped from AM disk.

RAF
= The recorded announcement function (RAF) resident operational software image and hashsum are pumped from AM disk. The HDSU diagnostic software image and hashsum are pumped from AM disk in conjunction with this request if not already pumped.

SAS
= The operational and diagnostic service announcement system (SAS) resident software images and hashsums are pumped from AM disk. This includes the SAS and HSAS images and hashsums.

V4DSPEVRC1
= The set of three EVRC DSP software image and hashsum are pumped from the AM disk, for use with the PHV4 speech handlers. This includes the V4DSPEVRC(FDTMF +TTY/TDD), V4DSPEVRC2(EC+TTY/TDD) and V4DSPEVRC3(EC+FDTMF) images and hashsums.

V4DSP13K
= The 13K DSP software image and hashsum are pumped from the AM disk, for use with the PHV4 speech handlers.

V4DSPACELP
= The ACELP DSP software image and hashsum are pumped from the AM disk, for use with the PHV4 speech handlers.

V4DSPISLP
= The ISLP DSP software image and hashsum are pumped from the AM disk, for use with the PHV4 speech handlers.

V4DSPVSELP
= The VSELP DSP software image and hashsum are pumped from the AM disk, for use with the PHV4 speech handlers.

V5DSPCDMA
= The consolidated CDMA QCELP (which include QCELP 13K and all EVRC algorithm variations) image and hashsums are pumped from AM disk, for use with the PHV5 speech handlers.

V5DSPISLP
= The ISLP DSP software image and hashsum are pumped from AM disk, for use with the PHV5 speech handlers.

V5DSPTDMA
= The consolidated TDMA QCELP (which include ACELP and VSELP) image and hashsums are pumped from AM disk, for use with the PHV5 speech handlers.

b
= SM number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

NG
= No good. Request not initiated due to bad syntax or invalid SM specified.

PF
= Printout follows. Request accepted. Followed by the REPT:NIPMP output message.

5. REFERENCES

Input Message(s):

STP:NIPMP

Output Message(s):

REPT:NIPMP

Input Appendix(es):

APP:RANGES
ST:NIPMP-C
Software Release: 5E16(1) only
Command Group: SM
Application: 5
Type: Input

1. PURPOSE
Requests a download into switching module (SM) memory from administrative module (AM) disk of the peripheral image or images that reside in the peripheral unit specified on the input message line. This is accomplished with a non-interfering pump that does not interrupt call processing nor drop any calls. This input message must be executed during the growth procedures for the first peripheral of each type grown in on an SM. The SM is no longer pumped with the peripheral images for peripherals that are unequipped.

2. FORMAT
ST:NIPMP,ODRID=a,SM=b[,UCL];

3. EXPLANATION OF MESSAGE

<table>
<thead>
<tr>
<th>UCL</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>UCL</td>
<td>Unconditionally pump the image(s) for the specified unit although the images may have previously been loaded.</td>
</tr>
<tr>
<td>a</td>
<td>SM peripheral hardware unit. Valid value(s):</td>
</tr>
<tr>
<td>CFCBUF</td>
<td>The configuration control buffer is not valid for this command, however it is listed as an available input because of commonality with CFR:SPRMEH. This buffer is not pumpable and should not be used as input to this command.</td>
</tr>
<tr>
<td>DNUS</td>
<td>The set of two digital network unit - synchronous optical network (SONET) (DNU-S) resident software images and hashsums are pumped from AM disk. This includes the DNUSSC and DNUSTMX images and hashsums.</td>
</tr>
<tr>
<td>DSP13K</td>
<td>The 13K DSP software image and hashsum are pumped from the AM disk, for use with the PHV3 speech handlers.</td>
</tr>
<tr>
<td>DSPACELP</td>
<td>The ACELP DSP software image and hashsum are pumped from the AM disk, for use with the PHV3 speech handlers.</td>
</tr>
<tr>
<td>DSPEVRC</td>
<td>The EVRC DSP software image and hashsum are pumped from the AM disk, for use with the PHV3 speech handlers.</td>
</tr>
<tr>
<td>DSPVSELP</td>
<td>The VSELP DSP software image and hashsum are pumped from the AM disk, for use with the PHV3 speech handlers.</td>
</tr>
<tr>
<td>GDSF</td>
<td>The global digital services function (GDSF) resident operational software image and hashsum are pumped from AM disk.</td>
</tr>
<tr>
<td>IDCU</td>
<td>The set of three IDCU resident software images and hashsums are pumped from AM disk. This includes the IDCUCCP, IDCULSI, and IDCUDLP images and hashsums.</td>
</tr>
<tr>
<td>ISLU</td>
<td>The integrated services line unit (ISLU) resident software image and hashsum are pumped from AM disk.</td>
</tr>
<tr>
<td>ISLU2</td>
<td>The integrated services line unit model 2 (ISLU2) resident software image and hashsum are pumped from AM disk.</td>
</tr>
<tr>
<td>ISTF</td>
<td>The integrated services test facility (ISTF) resident operational software image and hashsum are pumped from AM disk. The hardware digital service unit (HDSU) diagnostic software image and hashsum are pumped from AM disk in conjunction with this request if not already pumped.</td>
</tr>
<tr>
<td>LDSF</td>
<td>The logical digital service unit (LDSF) resident operational software image and hashsum are pumped from AM disk. The DSC3 diagnostic software image and hashsums are pumped from AM disk.</td>
</tr>
</tbody>
</table>
hashsum are pumped from AM disk in conjunction with this request if not already pumped.

**LDSF2**
- The local digital service function 2 (LDSF2) resident operational software image and hashsum are pumped from AM disk. The DSC4 diagnostic software image and hashsum are pumped from AM disk in conjunction with this request if not already pumped.

**LDSU**
- The LDSU resident operational software image and hashsum are pumped from AM disk. The HDSU diagnostic software image and hashsum are pumped from AM disk in conjunction with this request if not already pumped.

**OIU24**
- The 24-channel optical interface unit (OIU) resident software image and hashsum are pumped from AM disk.

**PH2**
- The set of four protocol handler model 2 (PH2) resident software images and hashsums are pumped from AM disk. This includes the PH2A, PH2G, DDMA, and ODMA images and hashsums.

**PH22I**
- The protocol handler model 22 (PH22) ISDN-Wireless resident software images (PH22I) and hashsums are pumped from the AM disk. If not already loaded, the PH22 IOP image (IP22) and hashsums will also be pumped.

**PH22S**
- The PH22 common channel signaling resident software image (PH22S) and hashsums are pumped from the AM disk. If not already loaded, the PH22 IOP image (IP22) and hashsums will also be pumped.

**PH31S**
- The protocol handler 31 for high speed signaling links image and hashsums are pumped from AM disk.

**PH3C**
- The set of two PH3 ISDN resident software images and hashsums are pumped from the AM disk. This includes the PH3C and OIOP images and hashsums.

**PH3S**
- The set of two protocol handler model 3 (PH3) common channel signaling (CCS) resident software images and hashsums are pumped from the AM disk. This includes the PH3S and IP3S images and hashsums.

**PH4ACC**
- The set of two protocol handler model 4 (PH4) resident access software images and hashsums are pumped from AM disk. This includes the PH4ACCAP and the PH4ISDNIP images and hashsums.

**PH4GWY**
- The set of two PH4 resident gateway software images and hashsums are pumped from AM disk. This includes the PH4GWYAP and the PH4ISDNIP images and hashsums.

**PH4IFR**
- The PH4 resident ISDN frame relay software IOP image (PH4IFRIP) and hashsum regions are pumped from AM disk. If not already loaded, the PH4WLAP and the PH4ISDNIP (needed for diagnostics) images and hashsums will be pumped from AM disk as well.

**PH4PP**
- The PH4 resident package pipe software IOP image (PH4PPIP) and hashsum regions are pumped from AM disk. If not already loaded, the PH4WLAP and the PH4ISDNIP (needed for diagnostics) images and hashsums will be pumped from AM disk as well. These images are used for CDMA and TDMA packet pipe applications.

**PHA1**
- The protocol handler for ATM (PHA1) resident software image (PHA1A) and hashsum are pumped from AM disk.

**PHA2A**
- The protocol handler for ATM (PHA2) version 2 resident software image and hashsum are pumped from AM disk.

**PHE1**
- The set of two protocol handler with SCSI/ethernet version 1 (PHE1) resident software images and hashsums are pumped from AM disk.

**PHE2E**
- The protocol handler with SCSI/ethernet version 2 (PHE2) resident software images and hashsums are pumped from AM disk.

**PHV1**
- The speech handler (PHV1) resident software image (PHV1C) and hashsum are pumped from AM disk.

**PHV3C**
- The set of two speech handler (PHV3) resident software images and hashsums
are pumped from the AM disk. This includes the PHV3C and DSP8K images and hashsums.

**PHV4C** = The set of two speech handler (PHV4) resident software images and hashsums are pumped from the AM disk. This includes the PHV4C and V4DSP8K images and hashsums.

**PHV5C** = The set of two speech handler (PHV5) resident software images and hashsums are allocated. This includes the PHV5C and V5DSPCDMA images and hashsums.

**PI** = The packet interface (PI) resident software image and hashsum are pumped from AM disk.

**PI2** = The packet interface model 2 (PI2) resident software image and hashsum are pumped from AM disk.

**RAF** = The recorded announcement function (RAF) resident operational software image and hashsum are pumped from AM disk. The HDSU diagnostic software image and hashsum are pumped from AM disk in conjunction with this request if not already pumped.

**SAS** = The operational and diagnostic service announcement system (SAS) resident software images and hashsums are pumped from AM disk. This includes the SAS and HSAS images and hashsums.

**V4DSPEVRC1** = The set of three EVRC DSP software image and hashsum are pumped from the AM disk, for use with the PHV4 speech handlers. This includes the V4DSPEVRC(FDTMF +TTY/TDD), V4DSPEVRC2(EC+TTY/TDD) and V4DSPEVRC3(EC+FDTMF) images and hashsums.

**V4DSP13K** = The 13K DSP software image and hashsum are pumped from the AM disk, for use with the PHV4 speech handlers.

**V4DSPACELP** = The ACELP DSP software image and hashsum are pumped from the AM disk, for use with the PHV4 speech handlers.

**V4DSPISLP** = The ISLP DSP software image and hashsum are pumped from the AM disk, for use with the PHV4 speech handlers.

**V4DSPVSELP** = The VSELP DSP software image and hashsum are pumped from the AM disk, for use with the PHV4 speech handlers.

**V5DSPCDMA** = The consolidated CDMA QCELP (which include QCELP 13K and all EVRC algorithm variations) image and hashsums are pumped from AM disk, for use with the PHV5 speech handlers.

**V5DSPISLP** = The ISLP DSP software image and hashsum are pumped from AM disk, for use with the PHV5 speech handlers.

b = SM number. Refer to the APP::RANGES appendix in the Appendixes section of the Input Messages manual.

### 4. SYSTEM RESPONSE

**NG** = No good. Request not initiated due to bad syntax or invalid SM specified.

**PF** = Printout follows. Request accepted. Followed by the REPT:NIPMP output message.

### 5. REFERENCES

**Input Message(s):**

**STP:NIPMP**
Output Message(s):

    REPT:NIPMP

Input Appendix(es):

    APP: RANGES
1. PURPOSE

Requests a download into switching module (SM) memory from administrative module (AM) disk of the peripheral image or images that reside in the peripheral unit specified on the input message line. This is accomplished with a non-interfering pump that does not interrupt call processing nor drop any calls. This input message must be executed during the growth procedures for the first peripheral of each type grown in on an SM. The SM is no longer pumped with the peripheral images for peripherals that are unequipped.

2. FORMAT

ST:NIPMP,ODRID=a,SM=b[,UCL];

3. EXPLANATION OF MESSAGE

UCL = Unconditionally pump the image(s) for the specified unit although the images may have previously been loaded.

a = SM peripheral hardware unit. Valid value(s):

CFCBUF = The configuration control buffer is not valid for this command, however it is listed as an available input because of commonality with CFR:SPRMEM. This buffer is not pumpable and should not be used as input to this command.

DNUS = The set of two digital network unit - synchronous optical network (SONET) (DNU-S) resident software images and hashsums are pumped from AM disk. This includes the DNUSCC and DNUSTMX images and hashsums.

DSP13K = The 13K DSP software image and hashsum are pumped from the AM disk, for use with the PHV3 speech handlers.

DSPACELP = The ACELP DSP software image and hashsum are pumped from the AM disk, for use with the PHV3 speech handlers.

DSPEVRC = The EVRC DSP software image and hashsum are pumped from the AM disk, for use with the PHV3 speech handlers.

DSPVSELP = The VSELP DSP software image and hashsum are pumped from the AM disk, for use with the PHV3 speech handlers.

GDSF = The global digital services function (GDSF) resident operational software image and hashsum are pumped from AM disk.

GDSF2 = The global digital services function 2 (GDSF2) resident operational software image and hashsum are pumped from AM disk. The DSC4 diagnostic software image and hashsum are allocated in conjunction with this request if not already allocated.

IDCU = The set of three IDCU resident software images and hashsums are pumped from AM disk. This includes the IDCUCCP, IDCULSI, and IDCUDLP images and hashsums.

ISLU = The integrated services line unit (ISLU) resident software image and hashsum are pumped from AM disk.

ISLU2 = The integrated services line unit model 2 (ISLU2) resident software image and hashsum are pumped from AM disk.

ISTF = The integrated services test facility (ISTF) resident operational software image and hashsum are pumped from AM disk. The hardware digital service unit (HDSU)
diagnostic software image and hashsum are pumped from AM disk in conjunction with this request if not already pumped.

LDSF = The logical digital service unit (LDSF) resident operational software image and hashsum are pumped from AM disk. The DSC3 diagnostic software image and hashsum are pumped from AM disk in conjunction with this request if not already pumped.

LDSF2 = The local digital service function 2 (LDSF2) resident operational software image and hashsum are pumped from AM disk. The DSC4 diagnostic software image and hashsum are pumped from AM disk in conjunction with this request if not already pumped.

LDSU = The LDSU resident operational software image and hashsum are pumped from AM disk. The HDSU diagnostic software image and hashsum are pumped from AM disk in conjunction with this request if not already pumped.

OIU24 = The 24-channel optical interface unit (OIU) resident software image and hashsum are pumped from AM disk.

OIUATM = The asynchronous transfer mode (ATM) OIU resident software image and hashsum are pumped from AM disk.

OIUIMP = The internet protocol (IP) OIU resident software image and hashsum are pumped from AM disk.

PH2 = The set of four protocol handler model 2 (PH2) resident software images and hashsums are pumped from AM disk. This includes the PH2A, PH2G, DDMA, and ODMA images and hashsums.

PH22I = The protocol handler model 22 (PH22) ISDN-Wireless resident software image (PH22I) and hashsums are pumped from the AM disk. If not already loaded, the PH22 IOP image (IP22) and hashsums will also be pumped.

PH22S = The PH22 common channel signaling resident software image (PH22S) and hashsums are pumped from the AM disk. If not already loaded, the PH22 IOP image (IP22) and hashsums will also be pumped.

PH31S = The protocol handler 31 for high speed signaling links image and hashsums are pumped from AM disk.

PH3C = The set of two PH3 ISDN resident software images and hashsums are pumped from AM disk. This includes the PH3C and OIOP images and hashsums.

PH3S = The set of two protocol handler model 3 (PH3) common channel signaling (CCS) resident software images and hashsums are pumped from the AM disk. This includes the PH3S and IP3S images and hashsums.

PH4ACC = The set of two protocol handler model 4 (PH4) resident access software images and hashsums are pumped from AM disk. This includes the PH4ACCAP and the PH4ISDNIP images and hashsums.

PH4GWY = The set of two PH4 resident gateway software images and hashsums are pumped from AM disk. This includes the PH4GWYAP and the PH4ISDNIP images and hashsums.

PH4IFR = The PH4 resident ISDN frame relay software IOP image (PH4IFRIP) and hashsum regions are pumped from AM disk. If not already loaded, the PH4WLAP and the PH4ISDNIP (needed for diagnostics) images and hashsums will be pumped from AM disk as well.

PH4PP = The PH4 resident package pipe software IOP image (PH4PPIP) and hashsum regions are pumped from AM disk. If not already loaded, the PH4WLAP and the PH4ISDNIP (needed for diagnostics) images and hashsums will be pumped from AM disk as well. These images are used for CDMA and TDMA packet pipe applications.

PHA1 = The protocol handler for ATM (PHA1) resident software image (PHA1A) and hashsum are pumped from AM disk.

PHA2A = The protocol handler for ATM (PHA2) version 2 resident software image and
hashsums are pumped from AM disk.

PHE1 = The set of two protocol handler (PHE1) with SCSI/ethernet resident software images and hashsums are pumped from AM disk.

PHE2E = The protocol handler (PHE2) with SCSI/ethernet version 2 resident software images and hashsums are pumped from AM disk.

PHV1 = The speech handler (PHV1) resident software image (PHV1C) and hashsum are pumped from AM disk.

PHV3C = The set of two speech handler (PHV3) resident software images and hashsums are pumped from the AM disk. This includes the PHV3C and DSP8K images and hashsums.

PHV4C = The set of two speech handler (PHV4) resident software images and hashsums are pumped from the AM disk. This includes the PHV4C and V4DSP8K images and hashsums.

PHV5C = The set of two speech handler (PHV5) resident software images and hashsums are allocated. This includes the PHV5C and V5DSPCDMA images and hashsums.

PI = The packet interface (PI) resident software image and hashsum are pumped from AM disk.

PI2 = The packet interface model 2 (PI2) resident software image and hashsum are pumped from AM disk.

RAF = The recorded announcement function (RAF) resident operational software image and hashsum are pumped from AM disk. The HDSU diagnostic software image and hashsum are pumped from AM disk in conjunction with this request if not already pumped.

SAS = The operational and diagnostic service announcement system (SAS) resident software images and hashsums are pumped from AM disk. This includes the SAS and HSAS images and hashsums.

V4DSPEVRC1 = The set of three EVRC DSP software image and hashsum are pumped from the AM disk, for use with the PHV4 speech handlers. This includes the V4DSPEVRC(FDTMF+TTY/TDD), V4DSPEVRC2(EC+TTY/TDD) and V4DSPEVRC3(EC+FDTMF) images and hashsums.

V4DSP13K = The 13K DSP software image and hashsum are pumped from the AM disk, for use with the PHV4 speech handlers.

V4DSPACELP = The ACELP DSP software image and hashsum are pumped from the AM disk, for use with the PHV4 speech handlers.

V4DSPISLP = The ISLP DSP software image and hashsum are pumped from the AM disk, for use with the PHV4 speech handlers.

V4DSPVSELP = The VSELP DSP software image and hashsum are pumped from the AM disk, for use with the PHV4 speech handlers.

V5DSPCDMA = The consolidated CDMA QCELP (which include QCELP 13K and all EVRC algorithm variations) image and hashsums are pumped from AM disk, for use with the PHV5 speech handlers.

V5DSPISLP = The ISLP DSP software image and hashsum are pumped from AM disk, for use with the PHV5 speech handlers.

V5DPSME13 = The consolidated SMV, EVRC and 13K DSP software image and hashsum are pumped from AM disk, for use with the PHV5 speech handlers.

b = SM number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE
NG = No good. Request not initiated due to bad syntax or invalid SM specified.

PF = Printout follows. Request accepted. Followed by the REPT:NIPMP output message.

5. REFERENCES

Input Message(s):

STP:NIPMP

Output Message(s):

REPT:NIPMP

Input Appendix(es):

APP: RANGES
1. PURPOSE

Requests a download into switching module (SM) memory from administrative module (AM) disk of the peripheral image or images that reside in the peripheral unit specified on the input message line. This is accomplished with a non-interfering pump that does not interrupt call processing nor drop any calls. This input message must be executed during the growth procedures for the first peripheral of each type grown in on an SM. The SM is no longer pumped with the peripheral images for peripherals that are unequipped.

2. FORMAT

ST:NIPMP,ODRID=a,SM=b[,UCL];

3. EXPLANATION OF MESSAGE

UCL = Unconditionally pump the image(s) for the specified unit although the images may have previously been loaded.

a = SM peripheral hardware unit. Valid value(s):

CFCBUF = The configuration control buffer is not valid for this input message, however it is listed as an available input because of commonality with CFR:SPRMEM. This buffer is not pumpable and should not be used as input to this input message.

CSCPSAS = The operational and diagnostic common service circuit platform (CSCP) service announcement system (SAS) resident software images and hashsums are pumped from AM disk. This includes the CSCPSAS and CSCPDG images and hashsums.

DNUS = The set of two digital network unit - synchronous optical network (SONET) (DNU-S) resident software images and hashsums are pumped from AM disk. This includes the DNUSCC and DNUSTMX images and hashsums.

DSP13K = The 13K DSP software image and hashsum are pumped from the AM disk, for use with the PHV3 speech handlers.

DSPACELP = The ACELP DSP software image and hashsum are pumped from the AM disk, for use with the PHV3 speech handlers.

DSPEVRC = The EVRC DSP software image and hashsum are pumped from the AM disk, for use with the PHV3 speech handlers.

DSPVSELP = The VSELP DSP software image and hashsum are pumped from the AM disk, for use with the PHV3 speech handlers.

GDSF = The global digital services function (GDSF) resident operational software image and hashsum are pumped from AM disk.

GDSF2 = The global digital services function 2 (GDSF2) resident operational software image and hashsum are pumped from AM disk. The DSC4 diagnostic software image and hashsum are allocated in conjunction with this request if not already allocated.

IDCU = The set of three IDCU resident software images and hashsums are pumped from AM disk. This includes the IDCUCCP, IDCULSI, and IDCU2DLP images and hashsums.

ISLU = The integrated services line unit (ISLU) resident software image and hashsum are pumped from AM disk.

ISLU2 = The integrated services line unit model 2 (ISLU2) resident software image and
hashsum are pumped from AM disk.

ISTF
- The integrated services test facility (ISTF) resident operational software image and hashsum are pumped from AM disk. The hardware digital service unit (HDSU) diagnostic software image and hashsum are pumped from AM disk in conjunction with this request if not already pumped.

LDSF
- The logical digital service unit (LDSF) resident operational software image and hashsum are pumped from AM disk. The DSC3 diagnostic software image and hashsum are pumped from AM disk in conjunction with this request if not already pumped.

LDSF2
- The local digital service function 2 (LDSF2) resident operational software image and hashsum are pumped from AM disk. The DSC4 diagnostic software image and hashsum are pumped from AM disk in conjunction with this request if not already pumped.

LDSU
- The LDSU resident operational software image and hashsum are pumped from AM disk. The HDSU diagnostic software image and hashsum are pumped from AM disk in conjunction with this request if not already pumped.

OIU24
- The 24-channel optical interface unit (OIU) resident software image and hashsum are pumped from AM disk.

OIUATM
- The asynchronous transfer mode (ATM) OIU resident software image and hashsum are pumped from AM disk.

OIUIP
- The internet protocol (IP) OIU resident software image and hashsum are pumped from AM disk.

PH2
- The set of four protocol handler model 2 (PH2) resident software images and hashsums are pumped from AM disk. This includes the PH2A, PH2G, DDMA, and ODMA images and hashsums.

PH22I
- The protocol handler model 22 (PH22) ISDN-Wireless resident software image (PH22I) and hashsums are pumped from the AM disk. If not already loaded, the PH22 IOP image (IP22) and hashsums will also be pumped.

PH22S
- The PH22 common channel signaling resident software image (PH22S) and hashsums are pumped from the AM disk. If not already loaded, the PH22 IOP image (IP22) and hashsums will also be pumped.

PH31S
- The protocol handler 31 for high speed signaling links image and hashsums are pumped from AM disk.

PH3C
- The set of two PH3 ISDN resident software images and hashsums are pumped from the AM disk. This includes the PH3C and OIOP images and hashsums.

PH3S
- The set of two protocol handler model 3 (PH3) common channel signaling (CCS) resident software images and hashsums are pumped from the AM disk. This includes the PH3S and IP3S images and hashsums.

PH4ACC
- The set of two protocol handler model 4 (PH4) resident access software images and hashsums are pumped from AM disk. This includes the PH4ACCAP and the PH4ISDNIP images and hashsums.

PH4GWY
- The set of two PH4 resident gateway software images and hashsums are pumped from AM disk. This includes the PH4GWYAP and the PH4ISDNIP images and hashsums.

PH4IFR
- The PH4 resident ISDN frame relay software IOP image (PH4IFRIP) and hashsum regions are pumped from AM disk. If not already loaded, the PH4WLAP and the PH4ISDNIP (needed for diagnostics) images and hashsums will be pumped from AM disk as well.

PH4PP
- The PH4 resident package pipe software IOP image (PH4PPPIP) and hashsum regions are pumped from AM disk. If not already loaded, the PH4WLAP and the PH4ISDNIP (needed for diagnostics) images and hashsums will be pumped from AM disk as well. These images are used for CDMA and TDMA packet pipe applications.
PHA1 = The protocol handler for ATM (PHA1) resident software image (PHA1A) and hashsum are pumped from AM disk.
PHA2A = The protocol handler for ATM (PHA2) version 2 resident software image and hashsum are pumped from AM disk.
PHE1 = The set of two protocol handler (PHE1) with SCSI/ethernet resident software images and hashsums are pumped from AM disk.
PHE2E = The protocol handler (PHE2) with SCSI/ethernet version 2 resident software images and hashsums are pumped from AM disk.
PHV1 = The speech handler (PHV1) resident software image (PHV1C) and hashsum are pumped from AM disk.
PHV3C = The set of two speech handler (PHV3) resident software images and hashsums are pumped from the AM disk. This includes the PHV3C and DSP8K images and hashsums.
PHV4C = The set of two speech handler (PHV4) resident software images and hashsums are pumped from the AM disk. This includes the PHV4C and V4DSP8K images and hashsums.
PHV5C = The set of two speech handler (PHV5) resident software images and hashsums are allocated. This includes the PHV5C and V5DSPCDMA images and hashsums.
PHV6C = The set of two speech handler (PHV6) resident software images and hashsums are allocated. This includes the PHV6C and V6DSPCDMA images and hashsums.
PI = The packet interface (PI) resident software image and hashsum are pumped from AM disk.
PI2 = The packet interface model 2 (PI2) resident software image and hashsum are pumped from AM disk.
PSU2E = The set of CF3/PF3 resident firmware and hardware images and their corresponding hashsums that are pumped from the AM disk. This set is composed of 2 PF3 and 2 CF3 images as shown:

<table>
<thead>
<tr>
<th>Image Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>CF3FW</td>
<td>CF3 Firmware image</td>
</tr>
<tr>
<td>CF3HW</td>
<td>CF3 Hardware image</td>
</tr>
<tr>
<td>PF3FW</td>
<td>PF3 Firmware image</td>
</tr>
<tr>
<td>PF3HW</td>
<td>PF3 Hardware image</td>
</tr>
</tbody>
</table>

RAF = The recorded announcement function (RAF) resident operational software image and hashsum are pumped from AM disk. The HDSU diagnostic software image and hashsum are pumped from AM disk in conjunction with this request if not already pumped.

SAS = The operational and diagnostic service announcement system (SAS) resident software images and hashsums are pumped from AM disk. This includes the SAS and HSAS images and hashsums.

V4DSPEVRC1 = The set of three EVRC DSP software image and hashsum are pumped from the AM disk, for use with the PHV4 speech handlers. This includes the V4DSPEVRC(FDTMF +TTY/TDD), V4DSPEVRC2(EC+TTY/TDD) and V4DSPEVRC3(EC+FDTMF) images and hashsums.

V4DSP13K = The 13K DSP software image and hashsum are pumped from the AM disk, for use with the PHV4 speech handlers.

V4DSPACELP = The ACELP DSP software image and hashsum are pumped from the AM disk, for use with the PHV4 speech handlers.

V4DSPISLP = The ISLP DSP software image and hashsum are pumped from the AM disk, for use with the PHV4 speech handlers.

V4DSPVSELP = The VSELP DSP software image and hashsum are pumped from the AM disk, for use with the PHV4 speech handlers.

V5DSPCDMA = The consolidated CDMA QCELP (which include QCELP 13K and all EVRC algorithm variations) image and hashsums are pumped from AM disk, for use with
the PHV5 speech handlers.

V5DSPISLP = The ISLP DSP software image and hashsum are pumped from AM disk, for use with the PHV5 speech handlers.

V5DSPSMV = The consolidated SMV, EVRC and 13K DSP software image and hashsum are pumped from AM disk, for use with the PHV5 speech handlers.

V6DSPCDMA = The consolidated CDMA QCELP (which include QCELP 13K and all EVRC algorithm variations) image and hashsums are pumped from AM disk, for use with the PHV6 speech handlers.

V6DSPSMV = The consolidated SMV, EVRC and 13K DSP software image and hashsum are pumped from AM disk, for use with the PHV6 speech handlers.

\[ b \] = SM number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

NG = No good. Request not initiated due to bad syntax or invalid SM specified.

PF = Printout follows. Request accepted. Followed by the REPT:NIPMP output message.

5. REFERENCES

Input Message(s):

STP:NIPMP

Output Message(s):

REPT:NIPMP

Input Appendix(es):

APP:RANGES
1. PURPOSE

Increases the size of physical memory allocated to the protected non-redundant database. Only one switching module (SM) office-dependent data (ODD) growth at a time is allowed: non-redundant (ST:NRODDGRW), redundant (ST:RODDGRW), unprotected (ST:UODDGRW), or the bitmap salvage technique (ST:ODDBST).

2. FORMAT

ST:NRODDGRW,SM=a,KBYTES=b;

3. EXPLANATION OF MESSAGE

a = SM number.

b = Amount of growth space to be added, in kilobytes. The number input must be a multiple of 16 (for example 16, 32, 48, ... 2048) not to exceed 2048; otherwise the growth will not start. Growing and ODD greater than 2048 kilobytes may be done by repeating the ST:NRODDGRW input message.

4. SYSTEM RESPONSE

NG = No good. The message syntax is valid, but the request conflicts with system or equipment status.
Valid value(s):
- GROWTH SIZE NOT A MULTIPLE OF 16 = The input number of kilobytes must be a multiple of 16.
- SM NOT OPERATIONAL OR IN SPECIAL GROWTH MODE = The SM specified must be operational or in the special growth mode.

PF = Printout follows. Followed by ST:NRODDGRW output message.

RL = Retry later. Request cannot be executed now. Valid value(s):
- ANOTHER ODD GROWTH OR ODDBST EXECUTING = Retry after current ODD growth or ODDBST completes.
- ODD BACKUP CURRENTLY IN PROGRESS = Retry after the ODD backup process completes.
- RECOVERING FROM PREVIOUS ODDBST OR ODD GROWTH = The recovery of a previous ODD growth or ODDBST is currently in progress.

5. REFERENCES

Input Message(s):
- ST:ODDBST
- ST:RODDGRW
- ST:UODDGRW-SM
Output Message(s):

ST: NRODDGRW–SM

Other Manual(s):

235-105-220  Corrective Maintenance
ST:NRODDGRW-B

**Software Release:** 5E16(2) and later
**Command Group:** ODD
**Application:** 5
**Type:** Input

1. **PURPOSE**

Increases the size of physical memory allocated to the protected non-redundant database. Only one office-dependent data (ODD) growth at a time is allowed: non-redundant (ST:NRODDGRW), redundant (ST:RODDGRW), unprotected (ST:UODDGRW), or the bitmap salvage technique (ST:ODDBST).

2. **FORMAT**

```
ST:NRODDGRW,{SM=a|CMP=a},KBYTES=b;
```  

3. **EXPLANATION OF MESSAGE**

- **a** = Switching module (SM) or communications module processor (CMP) number. Refer to the APP:RANGES appendix in the Appendixes section of the Output Messages manual.
- **b** = Amount of growth space to be added, in kilobytes. The number input must be a multiple of 16 (for example 16, 32, 48, ... 2048) not to exceed 2048; otherwise the growth will not start. Growing and ODD greater than 2048 kilobytes may be done by repeating the ST:NRODDGRW input message.

4. **SYSTEM RESPONSE**

- **NG** = No good. The message syntax is valid, but the request conflicts with system or equipment status. May also include:
  - GROWTH SIZE NOT A MULTIPLE OF 16 = The input number of kilobytes must be a multiple of 16.
  - SM NOT OPERATIONAL OR IN SPECIAL GROWTH MODE = The SM specified must be operational or in the special growth mode.
  - MATE CMP MUST BE OOS BEFORE EXECUTING NRODD GROWTH = The mate CMP must be out of service (OOS) before executing the CMP non-redundant ODD (NRODD) growth command.

- **PF** = Printout follows. Followed by the ST:NRODDGRW output message.

- **RL** = Retry later. Request cannot be executed now. May also include:
  - ANOTHER ODD GROWTH OR ODDBST EXECUTING = Retry after current ODD growth or ODDBST completes.
  - ODD BACKUP CURRENTLY IN PROGRESS = Retry after the ODD backup process completes.
  - RECOVERING FROM PREVIOUS ODDBST OR ODD GROWTH = The recovery of a previous ODD growth or ODDBST is currently in progress.

5. **REFERENCES**

Input Message(s):

```
ST:ODDBST
```
Output Message(s):

ST:NRODDGRW

Other Manual(s):
235-105-220  Corrective Maintenance
ST:ODDBST

Software Release: 5E14 and later
Command Group: ODD
Application: 5
Type: Input

1. PURPOSE

Performs the blockid conversion for the redundant office-dependent data (RODD). The RODD bitmap may need to be converted for future RODD and/or non-redundant office dependent data (NRODD) growth to be performed.

The process invoked by this ST:ODDBST input message is the bitmap salvage technique (BST). The BST will relocate the portion of the RODD bitmap being used (last half of the RODD bitmap) to the beginning of the RODD bitmap. Also, the RODD relation's blockids will be converted to point to the first half of the RODD bitmap. NRODD growth or RODD growth will output a message indicating when it is necessary to run the BST.

2. FORMAT

ST:ODDBST, SM=a[&&b];

3. EXPLANATION OF MESSAGE

a = Switching module (SM) number or the lower limit of a range of SM numbers. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

b = SM number that specifies the last number in a range of SM numbers. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

NG = No good. Input request not valid.

PF = Printout follows. Request accepted. Followed by the ST:ODDBST output message.

5. REFERENCES

Input Message(s):

ST:NRODDGRW
ST:RODDGRW

Output Message(s):

ST:NRODDGRW-SM
ST:ODDBST-SM
ST:RODDGRW

Input Appendix(es):

APP:RANGES
Other Manual(s):
235-105-220 Corrective Maintenance
ST:ODDCREAT-SM

Software Release: 5E14 and later
Command Group: ODD
Application: 5
Type: Input

1. PURPOSE

Requests that a new copy of office-dependent data (ODD) be created for a switching module (SM) that is being added to the switch.

2. FORMAT

ST:ODDCREAT,SM=a[,UODDSZ=b][,NRODDSZ=c];

3. EXPLANATION OF MESSAGE

a = SM number.

b = Requested size of unprotected ODD in kilobytes. Must be on an 16k boundary (that is, must be a multiple of 16). If a value of zero is entered for both the uoddsz and the nroddsz fields, the default size of the unprotected and nonredundant ODDs will be calculated and printed out with the oddcreat output message.

c = Requested size of nonredundant ODD in kilobytes. Must be on an 16k boundary (that is, must be a multiple of 16). If a value of zero is entered for both the uoddsz and the nroddsz fields, the default size of the unprotected and nonredundant ODDs will be calculated and printed out with the oddcreat output message.

4. SYSTEM RESPONSE

NG = No good. Input request was not valid.

PF = Printout follows. Request accepted. Followed by an ST:ODDCREAT-SM output message.

5. REFERENCES

Output Message(s):

ST:ODDCREAT-SM

Other Manual(s):
235-105-220 Corrective Maintenance
1. PURPOSE

Requests that office-dependent data (ODD) files be removed from an switching module (SM) that is being removed from the office.

2. FORMAT

ST:ODDRM,SM=a;

3. EXPLANATION OF MESSAGE

a = SM number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

NG = No good. Input request is not valid.

PF = Printout follows. Request accepted. Followed by the ST:ODDRM-SM output message.

5. REFERENCES

Output Message(s):

ST:ODDRM-SM

Input Appendix(es):

APP: RANGES
ST:ODDDUPD

Software Release: 5E14 and later
Command Group: ODD
Application: 5
Type: Input

1. PURPOSE

Requests initiative of an update of all multi-module remote switching module (MMRSM) site common office dependent data (ODD) in all RSMs which are members of the MMRSM site. The function of this message is to move the association of a remote switching module (RSM) from one MMRSM site to another MMRSM site.

Note: This input message is only used in conjunction with the RSM association/disassociation procedure which is part of MMRSM growth/degrowth. This function can take several minutes to complete.

2. FORMAT

ST:ODDDUPD, FROM=a-b, TO=c-d;

3. EXPLANATION OF MESSAGE

a = MMRSM site number (1-174) from which the RSM is to be moved.
b = Remote member (1-4) in MMRSM site 'a' of RSM to be moved.
c = MMRSM site number (1-174) to which the RSM is to be joined.
d = Remote member (1-4) in MMRSM site 'c' to which RSM is to be assigned.

4. SYSTEM RESPONSE

NG = No good. The input request is not valid.
PF = Printout follows. Followed by the ST:ODDDUPD-MMRSM output message.
RL = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

Output Message(s):

ST:ODDUPD-MMRS

Other Manual(s):
235-105-231 Hardware Change Procedures
ST:OPUMP-CMP
  Software Release: 5E14 and later
  Command Group: SFTMGT
  Application: 5
  Type: Input

1. PURPOSE

Requests a download of the off-line communication module processor (CMP) memory for the specified CMP from the off-line administrative module (AM) disk followed by an off-line verification.

2. FORMAT

ST:OPUMP,CMP=a,MATE;

3. EXPLANATION OF MESSAGE

MATE = Mate, or non-active, CMP member.
  a = CMP number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

NG = No good. The request has been denied. The message syntax is valid, but the request could not be processed. Refer to the APP:CM-IM-REASON appendix in the Appendixes section of the Input Messages manual for a list of possible reasons for denying the request.

PF = Printout follows. Message received. Followed by the ST:OPUMP-CMP output message.

RL = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

Input Message(s):
  STP:CMP

Output Message(s):
  ST:OPUMP-CMP

Input Appendix(es):
  APP:CM-IM-REASON

Other Manual(s):
Where ‘x’ is the release-specific version of the document.
235-105-24x Software Release Retrofit
MCC Display Page(s):

1851 (CMP INH AND RCVRY CNTL)
ST:OPUMP-SM
Software Release: 5E14 and later
Command Group: SFTMGT
Application: 5
Type: Input

1. PURPOSE

Requests a download of the off-line module controller/time slot interchange (MCTSI) memory for each specified
switching module (SM) from the active or off-line administrative module (AM) disk, with or without an off-line
verification. For successful execution, this input message requires that the active MCTSI of each specified SM be
forced and the off-line MCTSI be forced unavailable.

Format 1 shows the method used to off-line pump the SM and optionally off-line pump the SM peripherals. All
duplex peripherals within an SM are downloaded when the PERF and VFY options are specified. For successful
execution of the peripheral download, all of the affected peripherals must be in an active/standby state. The
peripheral side that is opposite the SM side is the one that will be removed from service and pumped. The PERF
option is ignored on those SMs without duplex peripherals. This format requires the disk (ACTDISK, OFLDISK),
verify (VFY) and PERF options to be set to perform an off-line pump of the SM and its peripherals. The off-line
pump of multiple SMs is normally performed using a broadcast mechanism, reducing the amount of time it takes to
off-line pump multiple SMs. Offline pump does not use the broadcast mechanism for RSMs or when the NBCST
option is used.

Format 2 shows the method used to off-line pump the SM peripherals only. This format is used when a peripheral
failed to off-line pump and the SM has been successfully downloaded and verified. Requests for a download of just
the peripherals can only be performed after an off-line download of the SM with a successful completion of off-line
verification. The disk and verification parameters are omitted in this format.

2. FORMAT

[1] ST:OPUMP,SM=a[&&b],{ACTDISK|OFLDISK},{VFY|NVFY},{PERF|NPERF}

[2] ST:OPUMP,SM=a[&&b],PERF;

3. EXPLANATION OF MESSAGE

ACTDISK = Off-line pump is to be from the existing software release.
HSM = Offline pump HSMs within the range indicated.
LSM = Offline pump LSMs within the range indicated.
NBCST = Do not broadcast the off-line pump. If this option is chosen, the SMs will be off-line pumped one at
time rather than like SMs (such as, LOADED) being pumped in parallel.
NPERF = Do not perform off-line pump on all duplex peripherals.
NVFY = Do not execute off-line verification.
OFLDISK = Off-line pump is to be from the new software release.
ORM = Offline pump ORMs within the range indicated.
PERF = Perform off-line pump on all duplex peripherals.
RSM = Offline pump RSMs within the range indicated.

TRM = Offline pump TRMs within the range indicated.

VFY = Execute off-line verification.

a = SM number, or the lower limit for a range of SMs. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

b = Upper limit of the range of SM numbers. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

NG = No good. Process not initiated due to bad syntax or invalid SM specified.

PF = Printout follows. Message received. Followed by the REPT:SM-HASHSUM or REPT:SM-OFFLINE output message.

5. REFERENCES

Input Message(s):
STP:OPUMP-SM

Output Message(s):
REPT:SM-HASHSUM
REPT:SM-OFFLINE

Input Appendix(es):
APP:RANGES
ST:OVERLAY

Software Release: 5E14 and later
Command Group: ODD
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Requests the termination or initialization of the recent change kernel process (RCKP). If RCKP is terminated, its freed memory space can be automatically overlaid with the DBdiskrc process of the PRE-release recent change reapplication (RCR) process (only during retrofit) or manually requested to be overlaid with the RCKP version on disk.

During retrofit, memory is needed to allow the entire PRERCR process to reapply all recent changes (RCs) and customer-oriented recent changes (CORCs) before the initialization on the new software release. When DBdiskrc is initialized, recent changes are inhibited. When RCKP is initialized, communication with RCKP is allowed. To perform RCs, RCs must be allowed (using the ALW:RC input message). The RCKP option is used during retrofit to terminate PRERCR’s execution and to allow emergency RCs after PRERCR has been manually stopped (EXC:RCR input message).

WARNING: THIS MESSAGE SHOULD ONLY BE USED for retrofit and inside the message switch (MSGS) file of a software update package for a large field update of RCKP. Before this message can be used, all software updates for RCKP and operational kernel process (OKP) must be made permanent (if official) or backed out (if temporary), and RCs must be inhibited.

2. FORMAT

ST:OVERLAY,PROD=a;

3. EXPLANATION OF MESSAGE

a
  = The product that is to be copied from disk to overlay RCKP:
  NONE       = RCKP is terminated only. No product is to be initialized.
  RCKP       = RCKP process. If RCs are needed, this option initializes RCKP. If RCKP has not been terminated, this option will terminate RCKP first. If emergency RCs are needed while PRERCR is running, this option should be used after PRERCR manually stopped.
  RCR        = DBdiskrc kernel process of PRERCR. RCKP is terminated automatically.

By using this option when large field updates are needed, file replacement of RCKP occurs.

4. SYSTEM RESPONSE

IP       = In progress. RCKP is about to be recreated.
NG
  = No good. May also include:
  - NON_RETROFIT = RCR only used during retrofit.
  - RCKP NOT RUNNING = Should use EXC:RCR,START to start PRERCR.
− RCR ALREADY RUNNING = Should use EXC:RCR,STOP to stop PRERCR first followed by
ST:OVERLAY,PROD=RCKP if RCKP to be initialized.

PF = Printout follows. Followed by the ST:OVERLAY output message.

5. REFERENCES

Input Message(s):

ALW:RC
EXC:RCRLS
INH:RC

Output Message(s):

EXC:RCRLS
ST:OVERLAY

Other Manual(s):

Where ‘x’ is the release-specific version of the document.
235-105-24x Software Release Retrofit
ST:RODDGRW

Software Release: 5E14 and later
Command Group: ODD
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Allocates physical memory to the redundant portion of office dependent data (RODD) for the purpose of growth, provided that there is physical memory available.

WARNING: If an ST:RODDGRW input message is entered before the previous one has completed, the second one will not be honored. Only one growth at a time is possible.

Check the available switching module (SM) memory before inputting this message, and check diagnostics.

2. FORMAT

ST:RODDGRW:KBYTES=a;

3. EXPLANATION OF MESSAGE

a = The amount of growth space to be added, in kilobytes. This number must be a multiple of 16 (such as, 16, 32, 48, ... 2048) not to exceed 2048; otherwise the growth will be aborted. Growing and ODD greater than 2048 kilobytes may be done by repeating the ST:RODDGRW input message.

4. SYSTEM RESPONSE

NG = No good. Input request not valid.
FF = Printout follows. Request accepted. Followed by an ST:RODDGRW output message.
RL = Retry later. Request cannot be executed now.

5. REFERENCES

Output Message(s):

ST:RODDGRW

Other Manual(s):

235-105-220 Corrective Maintenance
ST:UODDGRW-SM

Software Release: 5E14 and later
Command Group: ODD
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Requests an increase in the size of physical memory allocated to the unprotected (dynamic) office-dependent data (ODD).

WARNING: The size increase of the unprotected ODD is at the expense of the non-redundant ODD.

No reversal of this growth is possible. Only one SM ODD growth (unprotected - ST:UODDGRW, non-redundant - ST:NRODDGRW, or redundant - ST:RODDGRW) or bitmap salvage technique (BST) - ST:ODDBST at a time is possible. If an ST:UODDGRW input message is entered before the previous unprotected, non-redundant, redundant, or BST has completed, it will cause service affecting conditions to occur on the processor being grown.

2. FORMAT

ST:UODDGRW, SM=a; KBYTES=b;

3. EXPLANATION OF MESSAGE

a  = Switching module (SM) number.

b  = Amount of growth space to be added, in kilobytes. The number input must be a multiple of 16 (for example 16, 32, 48, ... 2048); otherwise the growth will be aborted. Growing and ODD greater than 2048 kilobytes may be done by repeating the ST:UODDGRW input message. Since unprotected ODD growth acquires space from the non-redundant ODD, the amount of growth space specified must leave available space in the non-redundant ODD for recent changes. The percent of non-redundant ODD space required to be free after an unprotected ODD growth is given by the SM global parameter DBmavsodd. The OP:ODD input message generates a report on ODD space utilization.

4. SYSTEM RESPONSE

NG  = No good. The message syntax is valid, but the request conflicts with system or equipment status. Valid value(s):
   - SM NOT OPERATIONAL OR IN SPECIAL GROWTH MODE = The message syntax is valid, but the request conflicts with system or equipment status. The SM specified must be operational or in the special growth mode.
   - UODD GROWTH SIZE NOT A MULTIPLE OF 16 = The message syntax is valid, but the request conflicts with system or equipment status. The input number of kilobytes must be a multiple of 16.

PF  = Printout follows. Followed by an ST:UODDGRW output message.
RL

= Retry later. Request cannot be executed now. Valid value(s):
- ANOTHER ODD GROWTH OR ODDBST EXECUTING = Retry later. Request cannot be executed now. Retry after the current ODD growth or ODDBST completes.
- ODD BACKUP CURRENTLY IN PROGRESS = Retry later. Request cannot be executed now. Retry after the ODD backup process finishes.
- RECOVERING FROM PREVIOUS ODDBST OR ODD GROWTH = Retry later. Request cannot be executed now because a recovery of a previous ODD growth or ODDBST is currently in progress.

5. REFERENCES

Input Message(s):

ST:RODDGRW
ST:NRODDGRW
ST:ODDBST
OP:ODD-AM-SM

Output Message(s):

ST:UODDGRW

Other Manual(s):

235-105-220 Corrective Maintenance
ST:UODDGRW

Software Release: 5E16(2) and later
Command Group: ODD
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Requests an increase in the size of physical memory allocated to the unprotected (dynamic) office-dependent data (ODD).

WARNING: The size increase of the unprotected ODD is at the expense of the non-redundant ODD.

No reversal of this growth is possible. Only one ODD growth (unprotected - ST:UODDGRW, non-redundant - ST:NRODDGRW, or redundant - ST:RODDGRW) or bitmap salvage technique (BST) - ST:ODDBST at a time is possible. If an ST:UODDGRW input message is entered before the previous unprotected, non-redundant, redundant, or BST has completed, it will cause service affecting conditions to occur on the processor being grown.

2. FORMAT

ST:UODDGRW,{SM=a|CMP=a},KBYTES=b;

3. EXPLANATION OF MESSAGE

a  = Switching module (SM) or communications module processor (CMP) number.

b  = Amount of growth space to be added, in kilobytes. The number input must be a multiple of 16 (for example 16, 32, 48, ... 2048); otherwise, the growth will be aborted. Growing and ODD greater than 2048 kilobytes may be done by repeating the ST:UODDGRW input message. Since unprotected ODD growth acquires space from the non-redundant ODD, the amount of growth space specified must leave available space in the non-redundant ODD for recent changes. The percent of non-redundant ODD space required to be free after an unprotected ODD growth is given by the SM and CMP global parameter DBmavsodd. The OP:ODD input message generates a report on ODD space utilization.

4. SYSTEM RESPONSE

NG  = No good. The message syntax is valid, but the request conflicts with system or equipment status. May also include:
- SM NOT OPERATIONAL OR IN SPECIAL GROWTH MODE = The message syntax is valid, but the request conflicts with system or equipment status. The SM specified must be operational or in the special growth mode.
- UODD GROWTH SIZE NOT A MULTIPLE OF 16 = The message syntax is valid, but the request conflicts with system or equipment status. The input number of kilobytes must be a multiple of 16.
- MATE CMP MUST BE OOS BEFORE EXECUTING UODD GROWTH = The mate CMP must be out of service (OOS) before executing the CMP unprotected ODD (UODD) growth command.
PF = Printout follows. Followed by the ST:UODDGRW output message.

RL = Retry later. Request cannot be executed now. May also include:
- ANOTHER ODD GROWTH OR ODDBST EXECUTING = Retry later. Request cannot be executed now. Retry after the current ODD growth or ODDBST completes.
- ODD BACKUP CURRENTLY IN PROGRESS = Retry later. Request cannot be executed now. Retry after the ODD backup process finishes.
- RECOVERING FROM PREVIOUS ODDBST OR ODD GROWTH = Retry later. Request cannot be executed now because a recovery of a previous ODD growth or ODDBST is currently in progress.

5. REFERENCES

Input Message(s):

ST:RODDGRW
ST:NRODDGRW
ST:ODDBST
OP:ODD-AM-SM

Output Message(s):

ST:UODDGRW

Other Manual(s):

235-105-220  Corrective Maintenance
ST:UPDMHGTRKG

Software Release: 5E14 and later
Command Group: ODD
Application: 5
Type: Input

1. PURPOSE

Requests an update of the "cluster" attribute in all tuples of the RLRT_MHG and RLRT_TRKG office dependent data (ODD) relations for a particular multi-module remote switching module (MMRSM) site and updates the RLRTANNGRP relation for affected announcement trunk groups associated with the site.

Note: This input message is usually used in conjunction with the remote switching module (RSM) association/disassociation procedure which is part of MMRSM growth/degrowth. This function can take several minutes to complete.

2. FORMAT

ST:UPDMHGTRKG, SITE=a;

3. EXPLANATION OF MESSAGE

a = MMRSM site number (1-174) for which the office data is updated.

4. SYSTEM RESPONSE

NG = No good. The input request is not valid.
PF = Printout follows. A ST:UPDMHGTRKG output message follows in response to the request.
RL = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

Output Message(s):

ST:UPDMHGTRKG

Other Manual(s):
235-105-230 Multimodule RSM Growth
74. STOP
STOP: AUD

Software Release: 5E14 and later
Command Group: AUDIT
Application: 5.3B
Type: Input

1. PURPOSE

Requests that a currently active audit that is controlled by the administrative module (AM) system integrity monitor (SIM) stops.

2. FORMAT

STOP: AUD, a=b ;

3. EXPLANATION OF MESSAGE

a = Audit name. Refer to the APP:MEM-NUM-AUD appendix in the Appendixes section of the Input Messages manual for a list of AM audit names.

b = Member number. Refer to the APP:MEM-NUM-AUD appendix in the Appendixes section of the Input Messages manual for a list of member numbers.

4. SYSTEM RESPONSE

Refer to the APP:AUD appendix in the Appendixes section of the Input Messages manual.

5. REFERENCES

Input Message(s):

AUD: CUMEM
AUD: CUSTAT
AUD: ECD
AUD: ECDOWN
AUD: FMGR
AUD: FSBLK
AUD: FSCMPT
AUD: FSLINK
AUD: MMGR
AUD: MSGBUF
AUD: PMS
AUD: PROAD
OP: AUD

Output Message(s):

AUD: CUMEM
AUD: CUSTAT
AUD: ECD
AUD: ECDOWN
AUD: FMGR1
AUD: FMGR2

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Input Appendix(es):

APP: AUD
APP: MEM–NUM–AUD

Other Manual(s):
235-600-400 Audits
STOP: BKDISK
Software Release: 5E14 and later
Command Group: FHADM
Application: 5,3B
Type: Input

1. PURPOSE
Requests that the copying of the boot disk to tape be stopped.

2. FORMAT
STOP: BKDISK; or STP: BKDISK;

3. EXPLANATION OF MESSAGE
No variables.

4. SYSTEM RESPONSE
NG = No good. A fatal error was encountered because the system was unable to initiate the stop program. Try to initiate the message again. If the process still fails, refer to the TECHNICAL ASSISTANCE portion of the INTRODUCTION section of the Input Messages manual.

PF = Printout follows. Followed by a COPY: BKDISK output message.

5. REFERENCES
Input Message(s):
  COPY: BKDISK
  STP: BKDISK

Output Message(s):
  COPY: BKDISK
STOP:CMPR-MHD

Software Release: 5E14 and later
Command Group: FHADM
Application: 5,3B
Type: Input

1. PURPOSE

Stops any CMPR:MHD input messages that are currently executing.

2. FORMAT

Refer to the STP:CMPR-MHD input message.

3. EXPLANATION OF MESSAGE

None.

4. SYSTEM RESPONSE

NG  = No good. No CMPR:MHD input message currently executing.
OK  = Request accepted.

5. REFERENCES

Input Message(s):

CMPR: MHD

Output Message(s):

CMPR: MHD
STOP:COPY-DIFF

Software Release: 5E14 and later
Command Group: FHADM
Application: 5,3B
Type: Input

1. PURPOSE

Stops any COPY:DIFF:SRC input messages that are currently executing.

2. FORMAT

Refer to the STP:COPY-DIFF input message.

3. EXPLANATION OF MESSAGE

None.

4. SYSTEM RESPONSE

NG = No good. No COPY:DIFF-SRC input message currently executing.

OK = Request accepted.

5. REFERENCES

Input Message(s):

COPY:DIFF-SRC-MHD

Output Message(s):

COPY:DIFF-SRC-MHD
STOP:DCI

Software Release: 5E14 and later
Command Group: N/A
Application: 5,3B
Type: Input

1. PURPOSE

Requests a termination of the DCI process.

When terminated, all DCI devices will be taken out of service after failing all jobs. Use the RST:DCI input message to restart and return the devices to the active state.

2. FORMAT

STOP:DCI

3. EXPLANATION OF MESSAGE

No variables.

4. SYSTEM RESPONSE

OK = Event was sent to the DCI process port. The DCI process will be terminated.

RL = Retry later. Either STOP:DCI could not get the process identifier (PID) of the DCI process or it could not send an event to it.

5. REFERENCES

Input Message(s):

RMV:DCI
RST:DCI

Output Message(s):

RMV:DCI
RST:DCI
STOP:DMQ

Software Release: 5E14 and later
Command Group: MAINT
Application: 5,3B
Type: Input

1. PURPOSE

Requests that the specified administrative module (AM) maintenance request be stopped. The request is identified by the unit name and number and optionally the subunit name and number. Any request handled by the maintenance input request administrator (MIRA) (restore, remove, diagnose) can be stopped by using this message.

2. FORMAT

STOP:DMQ\[:[a=b[,c=d]][,ACTIVE[,WAITING]];\]

3. EXPLANATION OF MESSAGE

ACTIVE  = Stop only active maintenance requests.
WAITING = Stop only waiting maintenance requests.

Note: If neither ACTIVE nor WAITING is specified, then both requests will be stopped.

a  = Unit name. Refer to the APP:MEM-NUM-UNIT appendix in the Appendixes section of the Input Messages manual.
b  = Unit number. Refer to the APP:MEM-NUM-UNIT appendix in the Appendixes section of the Input Messages manual.
c  = Subunit name, if a=CU. Refer to the APP:MEM-NUM-CU appendix in the Appendixes section of the Input Messages manual.
d  = Subunit number. Refer to the APP:MEM-NUM-CU appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

PF  = Printout follows. Followed by a STOP:DMQ output message.
RL  = Retry later. The system is in an overload condition.

5. REFERENCES

Input Message(s):

OP:DMQ
STP:DMQ

Output Message(s):
OP: DMQ
STOP: DMQ

Input Appendix(es):
APP: MEM–NUM–CU
APP: MEM–NUM–UNIT

Other Manual(s):
235-105-220  Corrective Maintenance
STOP:ECDAUD

Software Release: 5E14 and later
Command Group: MAINT
Application: 5
Type: Input

1. PURPOSE

Requests that a currently running on-switch ECD audit be terminated.

2. FORMAT

STOP:ECDAUD;

3. EXPLANATION OF MESSAGE

No variables.

4. SYSTEM RESPONSE

PF = Printout follows. Followed by the STOP:ECDAUD output message.

5. REFERENCES

Input Message(s):

   EXC:ECDAUD
   INH:ECDAUD
   ALW:ECDAUD
   SCHED:ECDAUD
   OP:ECDAUD

Output Message(s):

   STOP:ECDAUD

Other Manual(s):

   235-100-125 System Description
   235-105-210 Routine Operations and Maintenance Manual
STOP:EXC-ANY

Software Release: 5E14 and later
Command Group: SFTMGT
Application: 5,3B
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Requests that any specified process be stopped. The process can be killed either by specifying the process ID (PID) number or the pathname.

WARNING: Improper use of this input message may cause unpredictable system failures.

2. FORMAT

STOP:EXC, ANY, {PID=a|FN="b"}, UCL;

3. EXPLANATION OF MESSAGE

a = ID number of the process to be terminated.

Note: If a nonexistent process ID is used, the system prints a STOPPED message followed by the UNIX® RTR 'pkill' message.

b = Pathname of the file.

4. SYSTEM RESPONSE

PF = Printout follows. Followed by the STOP:EXC-ANY output message.

5. REFERENCES

Input Message(s):

OP:ST-PROC
STOP:EXC-USER
STP:EXC-ANY

Output Message(s):

OP:ST-PROC
STOP:EXC-ANY

MCC Display Page(s):

01 (CRAFT FM)
STOP:EXC-USER

Software Release: 5E14 and later
Command Group: SFTMGT
Application: 5,3B
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Requests that a user process specified either by ID number or by pathname be stopped.

WARNING: Use of this input message to stop a monitored process will prevent it from being restarted automatically. The INIT:ULARP input message can be used to restart ULARP and processes monitored by ULARP.

2. FORMAT

STOP:EXC,USER,{PID=a|FN="b"}[,SIG=c];

3. EXPLANATION OF MESSAGE

a = ID number of the process to be terminated.
b = Pathname of the process to be terminated. Pathname of the file.
c = Signals (default is 15 if PID is used and 9 if FN is used). Valid value(s):
   1 = Hang up.
   2 = Interrupt.
   3 = Quit.
   4 = Illegal instruction
      = not reset when caught.
   5 = Trace trap
      = not reset when caught.
   6 = IOT instruction.
   7 = EMT instruction.
   8 = Floating point exception.
   9 = Kill
      = cannot be caught or ignored.
  10 = Bus error.
  11 = Segmentation violation.
  12 = Bad argument to system call.
  13 = Write on a pipe with no one to read it.
  14 = Alarm clock.
  15 = Software termination signal.

4. SYSTEM RESPONSE
Printout follows. Followed by the STOP:E-USER output message.

5. REFERENCES

Input Message(s):

INIT:ULARP
OP:ST-PROC
STOP:EXC-ANY
STOP:EXC-USER

Output Message(s):

OP:ST-PROC
STOP:EXC-USER

MCC Display Page(s):

01 (CRAFT FM)
STOP:GEN

Software Release: 5E14 and later
Command Group: SFTMGT
Application: 5,3B
Type: Input

1. PURPOSE

Requests that the administrative module (AM) system-update message in progress be stopped. This is used to terminate the process associated with a previous UPD:GEN input message.

2. FORMAT

STOP:GEN[:UCL]; or STP:GEN[:UCL];

3. EXPLANATION OF MESSAGE

UCL = Unconditional execution. If the process cannot be terminated using termination or kill signals, it will be terminated by a more extreme method. In this case, some system resources in use by the process may not be released automatically.

4. SYSTEM RESPONSE

NG = No good. Process not initiated.
PF = Printout follows. Followed by STOP:GEN output message.

5. REFERENCES

Input Message(s):

STP:GEN
UPD:G-BACKOUT
UPD:G-COMMIT
UPD:G-ENTER
UPD:G-PROCEED
UPD:G-RESTORE

Output Message(s):

STOP:GEN
UPD:GEN-BACKOUT
UPD:GEN-COMMIT
UPD:GEN-ENTER
UPD:GEN-PROCEED
UPD:GEN-RESTORE
STOP:LNUPD

Software Release: 5E14 and later
Command Group: CCS
Application: CNI
Type: Input

1. PURPOSE
Terminates or interrupts the updating of the software of all SS7 nodes before the update procedure has been completed.

2. FORMAT
STOP:LNUPD;

3. EXPLANATION OF MESSAGE
No variables.

4. SYSTEM RESPONSE

PF  = Printout follows. Followed by the STOP LNUPD output message.

RL  = Retry later. Request cannot be executed now due to unavailable system resources.

5. REFERENCES

Input Message(s):

LNUPD: LN
OP: LNUPD

Output Message(s):

LNUPD: LN
OP: LNUPD
REPT: LNUPD
STOP: LNUPD
STOP:OFLBOOT

Software Release: 5E14 and later
Command Group: MAINT
Application: 5,3B
Type: Input

1. PURPOSE

To stop the offline boot (OFLBOOT) procedure. This input message can be used any time that the OFLBOOT procedure is in progress. It will stop the OFLBOOT procedure, and re-establish a duplex configuration. Optionally, it will submit requests to restore to service those units that were part of the off-line side.

2. FORMAT

STOP:OFLBOOT:[RST];

3. EXPLANATION OF MESSAGE

RST = If specified, requests will be submitted to restore units that were part of the off-line side.

4. SYSTEM RESPONSE

IP = In progress.
?E = Error exists in the message.

5. REFERENCES

Input Message(s):

EXC:OFLBOOT
SW:OFLBOOT

Output Message(s):

EXC:OFLBOOT
REPT:OFLBOOT
STOP:OFLBOOT
SW:OFLBOOT
STOP:RG1AUD
Software Release: 5E14 and later
Command Group: CCS
Application: 5,CNI
Type: Input

1. PURPOSE
Provides the ability to stop the execution of a CNI Ring 1 Audit.

2. FORMAT
STOP:RG1AUD

3. EXPLANATION OF MESSAGE
No variables.

4. SYSTEM RESPONSE
PF = The STOP RG1AUD output message will be output.

5. REFERENCES
Input Messages:
  EXC:RG1AUD
  OP:RG1AUD

Output Messages:
  EXC:RG1AUD
  OP:RG1AUD
  REPT:RG1AUD
  STOP:RG1AUD
STOP:RTRACK
Software Release: 5E14 and later
Command Group: CCS
Application: CNI
Type: Input

1. PURPOSE
Requests the termination of ring tracker mode.

2. FORMAT
STOP:RTRACK;

3. EXPLANATION OF MESSAGE
No variables.

4. SYSTEM RESPONSE

   IP = In progress.
   NG = No good. The request was not accepted; reason will follow.
   PF = Printout follows. Followed by a STOP:RTRACK output message. If accepted, ring tracker mode is terminated.
   RL = Retry later.

5. REFERENCES
Input Message(s):
   ALW:RTRACK
   EXC:RTRACK
   INH:RTRACK
   OP:RTRACK

Output Message(s):
   ALW:RTRACK
   EXC:RTRACK
   INH:RTRACK
   OP:RTRACK
   REPT:RING-CFR
   STOP:RTRACK

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STOP:TRAP

Software Release: 5E14 and later
Command Group: CCS
Application: 5
Type: Input

1. PURPOSE

Requests that a trap be stopped or removed from the internal database. Also, disk space can be initialized or set to not overwrite upon wrap-around of the circular buffer space.

2. FORMAT

\[1\] STOP:TRAP:{ID|RMTID}={a[-a[-a[-a[-a]]} | ALL};
\[2\] STOP:TRAP:{INIT|OVRWT}={Y|N};

3. EXPLANATION OF MESSAGE

ALL = Stop or remove all traps.

ID = ID of traps be stopped. Note that these traps cannot be activated by an ALW:TRAP input message. Status or results of these stopped traps can be obtained by entering the OP:TRAP input message.

INIT = Initialize of disk space. This allows for the entire disk space to be freed. If "Y" is given, all trapped messages that have been collected will be discarded. All active traps will be inhibited and information collected prior to a disk initialization will be discarded. All completed, aborted, or terminated traps will be removed from the internal database. No system action will be taken if "N" is specified.

N = No. Do not perform the indicated operation.

OVRWT = Overwrite disk. This allows for the contents of the disk to be overwritten if necessary. If "Y" is given, all ensuing trapped messages collected may be overwritten. Disk overwrite will remain active unless otherwise specified by this input message. If "N" is given, all ensuing trapped messages on the disk will not be overwritten.

RMTID = Remove trap ID. Traps will be permanently removed from the internal database for the specified identification numbers or ALL. Active or inhibited traps that are to be removed must have been stopped with a STOP:TRAP input message prior to being removed. No trap status or results can be obtained once these traps have been deleted from the database.

Y = Yes. Perform the indicated operation.

a = Trap identification number. There can be a maximum of five.

4. SYSTEM RESPONSE

PF = Printout follows. Followed by a STOP:TRAP output message.

5. REFERENCES
Input Message(s):
ALW: TRAP
INH: TRAP
OP: TRAP
SET: TRAP

Output Message(s):
STOP: TRAP

Other Manual(s):
235-190-120 Common Channel Signaling Service Features

MCC Display Page(s):
118 (CNI FRAME AND CCS LINE STATUS)
75. STP
**STP:AIUCOM**

**Software Release:** 5E14 and later  
**Command Group:** SM  
**Application:** 5  
**Type:** Input

1. **PURPOSE**

Requests the actions be stopped on an access interface unit common data and control controller (COMDAC).

2. **FORMAT**

   STP: [a,] AIUCOM=b-c-d;

3. **EXPLANATION OF MESSAGE**

   a  = Action to be stopped (default is the action currently executing). Valid value(s):
      DGN = Diagnose.
      RMV = Remove.
      RST = Restore.
      SW  = Switch.

   b  = Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

   c  = AIU number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

   d  = COMDAC number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. **SYSTEM RESPONSE**

   NG  = No good. The message form is valid, but the request conflicts with the current status.

   PF  = Printout follows. Followed by the STP:AIUCOM output message.

5. **REFERENCES**

Input Message(s):

   DGN:AIUCOM  
   OP:DMQ–CM–SM  
   OP:OOS  
   RMV:AIUCOM  
   RST:AIUCOM  
   SW:AIUCOM

Output Message(s):

   STP:AIUCOM
Input Appendix(es):

APP : RANGES

MCC Display Page(s):

1320.y,x (AIU SUMMARY)
1. PURPOSE

Requests the actions be stopped on an access interface unit (AIU) line circuit (LC).

2. FORMAT

STP:[a,]AIULC=b-c-d-e;

3. EXPLANATION OF MESSAGE

a = Action to be stopped (default is the action currently executing on the AIU LC). Valid value(s):
   DGN = Diagnose.
   RMV = Remove.
   RST = Restore.

b = Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

c = AIU number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

d = LP number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

e = LC number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

NG = No good. The message form is valid, but the request conflicts with the current status.

PF = Printout follows. Followed by the STP:AIULC output message.

5. REFERENCES

Input Message(s):

   DGN: AIULC
   OP: DMQ–CM–SM
   OP: OOS
   RMV: AIULC
   RST: AIULC

Output Message(s):
STP: AIULC

Input Appendix(es):
APP : RANGES

MCC Display Page(s):
1323,y,z,x (AIU AP STATUS)
1. PURPOSE
Requests the actions be stopped on an access interface unit (AIU) line pack (LP).

2. FORMAT
STP:[a,]AIULP=b-c-d;

3. EXPLANATION OF MESSAGE
a = Action to be stopped (default is the action currently executing on the AIU LP). Valid value(s):
   DGN = Diagnose.
   RMV = Remove.
   RST = Restore.

b = Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

c = AIU number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

d = LP number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE
NG = No good. The message form is valid, but the request conflicts with the current status.
PF = Printout follows. Followed by the STP:AIULP output message.

5. REFERENCES
Input Message(s):
DGN:AIULP
OP:DMQ-CM-SM
OP:OOS
RMV:AIULP
RST:AIULP

Output Message(s):
STP:AIULP

Input Appendix(es):
APP : RANGES

MCC Display Page(s):

1320.y,x (AIU SUMMARY)
1323.y,z,x (AIU AP STATUS)
STP:AIUPIDB

Software Release: 5E14 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE
Requests the actions be stopped on an access interface unit (AIU) timeslot group (TSGRP).

2. FORMAT
STP: [a,]AIUTSGRP=b-c-d-e;

3. EXPLANATION OF MESSAGE
   a = Action to be stopped (default is the action currently executing on the AIU TSGRP). Valid value(s):
      DGN = Diagnose.
      RMV = Remove.
      RST = Restore.
   b = Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
   c = AIU number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
   d = Common data and control circuit (COMDAC) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
   e = TSGRP number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE
   NG = No good. The message form is valid, but the request conflicts with the current status.
   PF = Printout follows. Followed by the STP:AIUTSGRP output message.

5. REFERENCES
Input Message(s):
   DGN:AIUPIDB
   OP:DMQ--CM--SM
   OP:OOS
   RMV:AIUPIDB
   RST:AIUPIDB

Output Message(s):
STP: AIUTSGRP

Input Appendix(es):

APP : RANGES

MCC Display Page(s):

1321.y.x (AIU TSGRP SUMMARY)
1. PURPOSE
Requests the actions be stopped on an access interface unit (AIU) ring generator (RG).

2. FORMAT

STP:[a,]AIURG=b-c-d;

3. EXPLANATION OF MESSAGE

a = Action to be stopped (default is the action currently executing on the AIU RG). Valid value(s):
   DGN = Diagnose.
   RMV = Remove.
   RST = Restore.

b = Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

c = AIU number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

d = Ring generator number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

NG = No good. The message form is valid, but the request conflicts with the current status.

PF = Printout follows. Followed by the STP:AIURG output message.

5. REFERENCES

Input Message(s):
DGN:AIURG
OP:DMQ-CM-SM
OP:OOS
RMV:AIURG
RST:AIURG

Output Message(s):
STP:AIURG

Input Appendix(es):
APP: RANGES

MCC Display Page(s):
1320.y,x (AIU SUMMARY)
1322.y,x (AIU RG STATUS)
STP:ALE

**Software Release:** 5E14 and later  
**Command Group:** TRKLN  
**Application:** 5  
**Type:** Input

1. **PURPOSE**

Requests that the current automatic line evaluation (ALE) session be stopped. The administrative module (AM) terminal process will attempt to stop the switching module (SM) currently running ALE. A maximum time of 5 minutes may elapse before ALE terminates.

This request may be used to stop an automatically invoked ALE session or one of the manually invoked ale operations, that is, ALW, EXC, INH, or OP input verbs. The default operation is to stop the automatically invoked ALE or the demand EXC:ALE sessions.

2. **FORMAT**

```
STP:ALE[,ALW|,EXC|,INH|,OP];
```

3. **EXPLANATION OF MESSAGE**

- **ALW** = Stop the session invoked using the ALW:ALE input request.
- **EXC** = Stop the automatically invoked ALE session of the session invoked using the EXC:ALE input request.
- **INH** = Stop the session invoked using the INH:ALE input request.
- **OP** = Stop the session invoked using the OP:ALE input request.

4. **SYSTEM RESPONSE**

- **NG** = No good. The request was not recognized, or was not acceptable. May also include:
  - **ALE FEATURE NOT LOADED** = The ALE feature is not loaded in the switch software configuration.
  - **COMMUNICATION FAILURE** = A system error has occurred. Refer to the TECHNICAL ASSISTANCE portion of the INTRODUCTION section of the Input Messages manual.
  - **PROCESS CREATION FAILURE** = A system error has occurred. Refer to the TECHNICAL ASSISTANCE portion of the INTRODUCTION section of the Input Messages manual.

- **PF** = Printout follows. The request has been accepted. Followed by the STP:ALE-COMPL output message.

- **RL** = Retry later.
  - **ALE ACTIVE** = Only one ALE session may be requested at a time. Wait for completion or stop the session manually.
  - **AM IN MIN MODE** = The AM is in minimum operation mode.
5. REFERENCES

Input Message(s):

ALW: ALE
EXC: ALE
EXC: LIT
INH: ALE
OP: ALE

Output Message(s):

ALW: ALE
EXC: ALE
EXC: ALE-LVL1
EXC: ALE-LVL2
EXC: ALE-PER
INH: ALE
OP: ALE
STP: ALE-COMPL
STP:ALIT

Software Release: 5E14 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Requests that actions on the automatic line insulation test (ALIT) circuit at the specified location be stopped.

2. FORMAT

STP: [a,] ALIT=b-c-d-e;

3. EXPLANATION OF MESSAGE

a = Action to be stopped (default is the action currently executing on the ALIT). Valid value(s):
   DGN = Diagnose.
   EX  = Exercise.
   RMV = Remove.
   RST = Restore.

b = Switching module number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

c = Metallic service unit (MSU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

d = Service group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

e = MSU board number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

NG = No good. The request has been denied because of a conflict with current status.

PF = Printout follows. Followed by the STP:ALIT output message.

5. REFERENCES

Input Message(s):
   DGN:ALIT
   EX:ALIT
   RMV:ALIT
   RST:ALIT

Output Message(s):
STP: ALIT

Input Appendix(es):

APP: RANGES
**STP:AMATAPE**

*Software Release:* 5E14 and later  
*Command Group:* AMA  
*Application:* 5  
*Type:* Input

1. **PURPOSE**

Requests that the tape writing process be stopped. The automatic message accounting (AMA) data previously written to the tape will not be lost.

2. **FORMAT**

`STP:AMATAPE[,ST1|ST2];`

3. **EXPLANATION OF MESSAGE**

- **ST1** = Send AMA data to the ST1 data stream.
- **ST2** = Send AMA data to the ST2 data stream.

*Note:* For a single data stream office, the stream does not have to be specified as either an ST1 or ST2. However, for a dual stream office, the stream must be specified as either an ST1 or ST2.

4. **SYSTEM RESPONSE**

- **NG** = No good. The teleprocessing option is in effect or the tape option is in effect but tape writing is not in progress, or data stream checks failed.
- **PF** = Printout follows. Followed by the REPT:AMATAPE-COMP output message. If any invalid data was encountered while processing the input message, an audit printout will follow.
- **RL** = Retry later. Message could not be sent to the tape writer to stop the tape session.

5. **REFERENCES**

*Input Message(s):*

- ABT:AMATAPE  
- OP:AMA-STREAM

*Output Message(s):*

- REPT:AMATAPE-COMP
STP:APT
Software Release: 5E14 and later
Command Group: TRKLN
Application: 5
Type: Input

1. PURPOSE
Requests that a manually or automatically scheduled automatic progression testing (APT) session that is currently executing be stopped.

2. FORMAT
STP:APT;

3. EXPLANATION OF MESSAGE
No variables.

4. SYSTEM RESPONSE
NG = No good. The request was not accepted because APT is not currently executing.
PF = Printout follows. The request has been accepted and the test has been stopped. Followed by an STP:APT output message.
NA = No Action. May also include:
   - APT IS ABOUT TO FINISH = No action has been taken because APT is already in the process of finishing up.
   - APT IS BEING STOPPED = No action has been taken because APT is already in the process of being stopped.

5. REFERENCES
Input Message(s):
   SCHED:APT

Output Message(s):
   STP:APT

Other Manual(s):
Where ‘x’ is the release-specific version of the document.
235-105-250 System Recovery Procedures
235-900-113 Product Specification
STP:ASC

Software Release: 5E14 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Requests that maintenance actions on the remote switching module (RSM), optical remote switching module (ORM), or two-mile remote switching module (TRM) alarm and status circuit (ASC) be stopped.

2. FORMAT

STP:\[a,]ASC=b;

3. EXPLANATION OF MESSAGE

a  = Action to be stopped (default is the action currently executing on the ASC). Valid value(s):
    DGN = Diagnose.
    EX  = Exercise.
    RMV = Remove.
    RST = Restore.

b  = Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

NG = No good. Request denied because of a conflict with current status.
PF = Printout follows. Followed by the STP:ASC output message.

5. REFERENCES

Input Message(s):
    DGN:ASC
    EX:ASC
    RMV:ASC
    RST:ASC

Output Message(s):
    STP:ASC

Input Appendix(es):
    APP:RANGES

Other Manual(s):
1. PURPOSE

Disables the automatic execution of test sessions defined in a specified ATTS (Automatic Trunk Test Scheduler) test schedule.

When a schedule is stopped unconditionally, it will always be placed in the "STOPPED" state. If the specified schedule is in the "RUNNING" state at the time this input message is processed, then the test session currently executing will be terminated upon completion of the test call in progress. When a schedule is stopped conditionally, it will be placed in either the "STOPPED" or "SUSPENDED" state. If the specified schedule is in the "RUNNING" state at the time this input message is processed, then the schedule will be placed in the "SUSPENDED" state and the test session currently executing will be interrupted upon completion of the test call in progress. If the specified schedule is in the "PAUSING" state at the time this input message is processed, then the schedule will also be placed in the "SUSPENDED" state even though no testing is being performed. Otherwise, the schedule will be placed in the "STOPPED" state. When a schedule is in the "SUSPENDED" state, the operation of the previously-interrupted test session will be resumed upon processing of a ST:ATTS input message. Without manual action to resume the session's operation, the schedule will remain in the "SUSPENDED" state until the scheduled stopping time of the interrupted session arrives, at which time the session will terminate and the schedule will automatically be placed in the "STOPPED" state.

2. FORMAT

STP:ATTS,SCHED=a[,UCL];

3. EXPLANATION OF MESSAGE

UCL = Unconditionally place the specified schedule in the STOPPED state.

a = The number of the ATTS test schedule to be stopped (1 - 20).

4. SYSTEM RESPONSE

PF = Printout follows. The request has been accepted. Followed by the ST:ATTS output message.

5. REFERENCES

Input Message(s):

DUMP:ATDTA
DUMP:ATLOG
DUMP:ATPRM
OP:ATTS
ST:ATTS
STP:ATTS

Output Message(s):
DUMP:ATDTA
DUMP:ATLOG
DUMP:ATPRM
OP:ATTS
REPT:ATTS
ST:ATTS
STP:ATTS

Other Manual(s):

Where 'x' is the release-specific version of the specified manual.

235-100-125  System Description
235-105-210  Routine Operations and Maintenance
235-118-251  Recent Change Procedures
235-118-25x  Recent Change Reference

RC/V View(s):

  14.9 (ATTS TEST SESSION SCHEDULE DATA)
  14.10 (ATTS TEST SCHEDULE PARAMETER)
STP:AUD-CMP

Software Release: 5E14 and later
Command Group: AUDIT
Application: 5
Type: Input

1. PURPOSE

Stops the currently executing audit in a communication module processor (CMP). This message will not inhibit future occurrences of the running audit. To inhibit future occurrences, refer to input message INH:AUD-CMP.

2. FORMAT

STP:AUD,CMP=a;

3. EXPLANATION OF MESSAGE

a = CMP number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

NG = No good. May also include:
   - INVALID CMP = The specified CMP does not exist.

PF = Printout follows. The request has been received. Followed by the STP:AUD-CMP output message indicating which audit was stopped.

5. REFERENCES

Input Message(s):

   INH:AUD-CMP

Output Message(s):

   STP:AUD-CMP

Input Appendix(es):

   APP:RANGES

Other Manual(s):

235-600-400 Audits
STP:AUD-ENV
Software Release: 5E14 and later
Command Group: AUDIT
Application: 5
Type: Input

1. PURPOSE
Requests that the currently executing kernel process environment (OKP or SMKP) audit in the administrative module (AM) be stopped. This message will not inhibit future occurrences of the running audit. To inhibit future occurrences, refer to the INH:AUD-ENV support message.

2. FORMAT
STP:AUD,ENV=a;

3. EXPLANATION OF MESSAGE
a = Kernel process. Valid value(s):
   OKP = Operational,
   SMKP = Switch maintenance.

4. SYSTEM RESPONSE
NG = No good. May also include:
   - ARGUMENT FOR ENV MISSING = The request has been denied because neither OKP nor SMKP were specified for variable 'a'.
   - SM TYPE NOT VALID FOR THIS REQUEST = The request has been denied because an SM type (RSM, LSM, or HSM) was specified for a kernel process environment.

PF = Printout follows. Followed by the STP:AUD-ENV output message indicating which audit was stopped.

5. REFERENCES
Input Message(s):
   INH:AUD-ENV

Output Message(s):
   STP:AUD-ENV
**STP:AUD-SM**

**Software Release:** 5E14 and later

**Command Group:** AUDIT

**Application:** 5

**Type:** Input

1. **PURPOSE**

Requests that the currently executing audit be stopped in a switching module (SM) or range of SMs. This message will not inhibit future occurrences of the running audit. To inhibit future occurrences, refer to input message INH:AUD-SM.

2. **FORMAT**

   STP:AUD, SM=a[&b], [RSM], [LSM], [HSM], [ORM], [TRM];

3. **EXPLANATION OF MESSAGE**

   **HSM** = Stop the currently running audit in all host switching modules (HSMs) specified.

   **LSM** = Stop the currently running audit in all local switching modules (LSMs) specified.

   **ORM** = The currently running audit in all optically remote switching modules (ORMs) specified.

   **RSM** = Stop the currently running audit in all remote switching modules (RSMs) specified.

   **TRM** = The currently running audit in all two mile optically remote switching modules (TRMs) specified.

   **a** = SM number, or lower limit of a range of SM numbers. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

   **b** = Upper limit of a range of SM numbers. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. **SYSTEM RESPONSE**

   **NG** = No good. May also include:

   - **INVALID SM RANGE/TYP**E COMBINATION = The request has been denied because either the range is not in ascending order, or there is not at least one SM of the specified type (or any type) within the range.

   **PF** = Printout follows. The request has been received. The audit output message STP:AUD-SM will follow indicating which audit was stopped.

   **RL** = Retry later. May also include:

   - **MESSAGE BROADCAST INTERNAL ERROR** = The message cannot be sent to the specified SM(s) at the present time due to problems scheduling a job to broadcast the message.

5. **REFERENCES**
Input Message(s):
INH: AUD-SM

Output Message(s):
STP: AUD-SM

Input Appendix(es):
APP: RANGES
STP:AUD-SODD
Software Release: 5E14 and later
Command Group: AUDIT
Application: 5
Type: Input

1. PURPOSE
Requests the termination of an executing static office-dependent data (SODD) audit as indicated with the parameter list. If no parameters are specified, all executing SODD audits are terminated. A stopped full, incremental, or processor entity audit can be restarted at the point of termination, but the other entity audits can only be re-run in their entirety.

2. FORMAT

[1] STP:AUD=SODD[,FULL|,INCR|,TN=a|,OE="b"|,RELATION="c", 
   {AM|SM=d|CMP}|,MLHG=e,MEMB=f|,TGN=g[,MEMB=h]];

[2] STP:AUD=SODD[,BRCS,MFT=i,{AM|SM=j|CMP}];

3. EXPLANATION OF MESSAGE

AM = Administration module. The processor on which the relation, as specified in 'c' or 'i', is being audited.

CMP = Communications module processor (CMP). The processor on which the relation, as specified in 'c' or 'i', is being audited.

FULL = The full SODD audit is to be stopped.

INCR = The incremental SODD audit is to be stopped.

a = Telephone number being audited.

b = Office equipment type and number being audited.

c = Relation being audited, or "ALL" if all relations on a specific processor are being audited (that is, processor entity audit).

d = Switching module (SM) being audited. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual. The processor on which the relation, as specified in 'c', is being audited.

e = Multi-line hunt group being audited.

f = Member of multi-line hunt group being audited.

g = Trunk group number being audited.

h = Member of trunk group number being audited.

i = Name of modular feature type (MFT) or ALL.

j = Switching module (SM) being audited. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual. The processor on which the relations associated with the
MFT, as specified in '1', are being audited.

4. SYSTEM RESPONSE

\[ PF \] = Printout follows. Valid value is:
- \[ OP \, AUD=SODD \, MESSAGE \, FOLLOWED = \] Followed by an \[ OP:AUD-STATUS \] or \[ OP:AUD-ERROR \] output message.

5. REFERENCES

Input Message(s):

\[ EXC:AUD-SODD \]
\[ SCHED:AUD-SODD \]

Output Message(s):

\[ OP:AUD-ERROR \]
\[ OP:AUD-STATUS \]

Input Appendix(es):

\[ APP:RANGES \]

Other Manual(s):

235-105-210  Routine Operations and Maintenance Manual
1. PURPOSE

Requests that a currently active audit that is controlled by the administrative module (AM) system integrity monitor (SIM) be stopped.

2. FORMAT

STP:AUD,a=b;

3. EXPLANATION OF MESSAGE

a = Audit name. AM audit names are listed in the APP:MEM-NUM-AUD appendix in the Appendixes section of the Input Messages manual.

b = Member number. Refer to the APP:MEM-NUM-AUD appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

Refer to the APP:AUD appendix in the Appendixes section of the Input Messages manual.

5. REFERENCES

Input Message(s):

AUD:CUMEM
AUD:CUSTAT
AUD:ECD
AUD:ECDOWN
AUD:FMGR
AUD:FSBLK
AUD:FSCMPT
AUD:FSLINK
AUD:MMGR
AUD:MSGBUF
AUD:PMS
AUD:PROAD
OP:AUD
STOP:AUD

Output Message(s):

AUD:CUMEM
AUD:CUSTAT
AUD:ECD
AUD:ECDOWN
AUD:FMGR1
STP:AUTOBKUP

Software Release: 5E15 and later
Command Group: FHADM
Application: 5,3B
Type: Input

1. PURPOSE

Requests that an automated system backup currently in progress be stopped.

The STP:AUTOBKUP input message is used to gracefully stop an automated system backup that is currently in progress.

If an automated system backup is not currently in progress, STP:AUTOBKUP outputs a message indicating that an automated system backup is not currently in progress.

The automated system backup process (autobkup) executes various input messages in order to perform the backup. If STP:AUTOBKUP is executed while autobkup is executing an input message, the autobkup process will attempt to terminate some of the input messages in order to fully stop the backup. Other input messages will be allowed to continue to completion either because the termination of these input messages may leave the system in an undesirable state, or because the input messages will terminate on their own in a short time.

Automated system backup will attempt to terminate the following input messages.

AUD:FSBLK
AUD:FSLINK
AUD:NIDATA
AUD:NMDATA
CMPR:MHD
COPY:BKDISK

Automated system backup will not attempt to terminate the following input messages.

ALW:RC
BKUP:ODD
CLR:ODDBKUP
CMPR:DlSK-CORE
COPY:ACTDISK
COPY:PTN-ALL
COPY:SPDISK
COPY:TAPE-TOP
DUMP:BKTAPE
INH:RC
INIT:MHD
OP:BKUP
RMV:MHD
RST:MHD
UPD:HSC7K
VFY:FILE

2. FORMAT

STP:AUTOBKUP;
3. EXPLANATION OF MESSAGE

No Variables.

4. SYSTEM RESPONSE

\[ PF \]  = Printout follows. Followed by the STP:AUTOBKUP output message.

5. REFERENCES

Input Message(s):

- ALW:AUTOBKUP
- ALW:RC
- AUD:FSBLK
- AUD:FSLINK
- AUD:NIDATA
- AUD:NMDATA
- BKUP:ODD
- CLR: BKUP
- CLR:ODDBKUP
- CMPR:DISK-CORE
- CMPR:MHD
- COPY:ACTDISK
- COPY:BKDISK
- COPY:PTN-ALL
- COPY:SPDISK
- COPY:TAPE-TOP
- DUMP:BKTAPE
- INH:AUTOBKUP
- INH:RC
- INIT:MHD
- OP: BKUP
- RMV:MHD
- RST:MHD
- SCHED:BKUP
- SET:BKUP
- UPD:HSCHK
- VFY:FILE

Output Message(s):

- STP:AUTOBKUP

Other Manual(s):

235-105-210  Routine Operations and Maintenance Procedures
STP:BCI

Software Release: 5E14 and later
Command Group: MAINT
Application: 5
Type: Input

1. PURPOSE

Stops the reporting, begun with an ALW:BCI input message, of line unit concentrator blockages in A- and B-links for originating (ORIG) or terminating (TERM) calls.

2. FORMAT

STP:BCI,{ORIG|TERM},SM=a[&b];

3. EXPLANATION OF MESSAGE

a = Switching module (SM) number, or the lower limit in a range of SMs. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

b = Upper limit SM number in a range of SMs. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

OK = Good. The specified originating or terminating call blockage reporting will be stopped.

5. REFERENCES

Input Message(s):

ALW:BCI
OP:BCI

Output Message(s):

OP:BCI
REPT:BCI

Input Appendix(es):

APP:RANGES

Other Manual(s):

235-070-100 Administration and Engineering Guidelines
STP:BICC
Software Release: 5E15 and later
Command Group: TRKLN
Application: 5
Type: Input

1. PURPOSE
Requests that the processing and output of the bearer independant call control (BICC) data request or task, OP:BICC, be stopped. This request stops the output of segment blocks of an OP:BICC request that have not yet been queued for printing and any further data collection and processing. This request does not stop the output of segment blocks already queued for printing at the time that this stop request is processed.

2. FORMAT
STP:BICC;

3. EXPLANATION OF MESSAGE
No variables.

4. SYSTEM RESPONSE
PF = Printout follows. The request has been accepted and the task is in the process of being stopped. The output message STP:BICC from the stopped task follows, or the output message STP:BICC as a general, non-specific task output message follows.

5. REFERENCES
Input Message(s):
OP:BICC

Output Message(s):
STP:BICC
OP:BICC
**STP:BICCBMOVE**

Software Release: 5E16(1) and later  
Command Group: CCS  
Application: 5  
Type: Input

1. **PURPOSE**

This request will stop further execution of EXC:BICCBMOVE.

2. **FORMAT**

```
STP:BICCBMOVE;
```

3. **EXPLANATION OF MESSAGE**

No variables.

4. **SYSTEM RESPONSE**

- **PF** = Printout follows. The request has been accepted.
- **RL** = Retry Later. The request has been denied. Valid value(s):
  - CIC ALLOCATION PROCESS NOT RUNNING

5. **REFERENCES**

None.
STP:BICCCQ

Software Release: 5E15 and later
Command Group: CCS
Application: 5
Type: Input

1. PURPOSE

Requests that the active bearer independent call control (BICC) call instance code (CIC) query be stopped. Both demand BICC CIC queries, initiated by an EXC:BICCCQ input message, and periodic automatic queries administered by recent change and verify (RC/V) view 8.15 can be stopped using this input message.

Format 1 is used to stop an office-wide BICC CIC query, either automatically scheduled or manually requested. The optional PRINT parameter specifies whether or not the accumulated results of the query being stopped will be printed. Format 2 is used to stop the active BICC CIC query for the specified originating point code (OPC) and destination point code (DPC). The printing of accumulated output is optional as described above. Format 3 is used to stop the active demand BICC CIC query for the specified BICC group. The printing of accumulated output is optional as described above. Format 4 is used to stop the active BICC CIC query for the specified BICC group member number or BICC group member number range. The printing of accumulated output is optional as described above.

2. FORMAT

[1] STP:BICCCQ,OFFICE[,PRINT];
[2] STP:BICCCQ,OPC=a,DPC=b[,PRINT];
[3] STP:BICCCQ,BG=c[,PRINT];
[4] STP:BICCCQ,BGMN=c-d[&e][,PRINT];

3. EXPLANATION OF MESSAGE

a = Originating point code number. Refer to the APP:POINT-CODE appendix in the Appendixes section of the Input Messages manual.

b = Destination point code number. Refer to the APP:POINT-CODE appendix in the Appendixes section of the Input Messages manual.

c = BICC group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

d = BICC group member number or the lower limit of a range of BICC group member numbers. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

e = The upper limit of a range of BICC group member numbers. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

PRINT = Option to print the accumulated results of the BICC CIC query when it is stopped.

4. SYSTEM RESPONSE

NG = No good. May also include:
NO SUCH BQ REQUEST EXISTS

PF = Printout follows. The request has been accepted and the query has been stopped. Followed by a STP:BICCCQ output message.

5. REFERENCES

RC/V View(s):

8.15 (CCS OFFICE PARAMETERS)

Other Manual(s):
235-200-115 CNI Common Channel Signaling
235-200-116 Signaling Gateway Common Channel Signaling
1. PURPOSE

Requests that the copy of the boot disk to tape be stopped.

2. FORMAT

STP:BKDISK;

3. EXPLANATION OF MESSAGE

No variables.

4. SYSTEM RESPONSE

NG = No good. A fatal error was encountered because the system was unable to initiate the stop program. Try the message again. If the process still fails, refer to the TECHNICAL ASSISTANCE portion of the INTRODUCTION section of the Input Messages manual.

PF = Printout follows. Followed by the COPY:BKDISK output message.

5. REFERENCES

Input Message(s):

COPY:BKDISK
STOP:BKDISK

Output Message(s):

COPY:BKDISK
STP:BRCS

Software Release: 5E14 and later  
Command Group: BRCS  
Application: 5  
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Requests the business and residential custom services (BRCS) feature audit to be stopped.

WARNING: It is absolutely necessary to wait until all STP:BRCS requests, currently being in progress, are completed, before retrofit can be started.

2. FORMAT

STP:BRCS;

3. EXPLANATION OF MESSAGE

No variables.

4. SYSTEM RESPONSE

PF = Printout follows. Followed by the following message:

BRCS AUDIT, sm = a

EXC BRCS FEATURE AUDIT IS TERMINATED BY USER REQUEST
Where:

a = SM number.

NG = No good. The request was denied.

5. REFERENCES

Input Message(s):

EXC:BRCS
OP:BRCS-STATUS

Output Message(s):

EXC:BRCS
OP:BRCS-STATUS

Other Manual(s):

235-118-251  Recent Change Procedures
235-190-103  BRCS Feature Description
STP:BTSR

Software Release: 5E14 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE
Requests that the actions on the bootstrapper board (BTSR) at the specified location be stopped.

2. FORMAT

STP: [a,] BTSR=b;

3. EXPLANATION OF MESSAGE

a = Action to be stopped (default is the action currently executing on the BTSR). Valid value(s):
   DGN = Diagnose.
   EX = Exercise.
   RMV = Remove.
   RST = Restore.
   TST = Test.

b = Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

NG = No good. The request has been denied. The message form is valid, but the request conflicts with current status.

PF = Printout follows. Followed by the STP:BTSR output message.

RL = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

Input Message(s):
   DGN:BTSR
   EX:BTSR
   RMV:BTSR
   RST:BTSR
   TST:BTSR

Output Message(s):
   STP:BTSR

Input Appendix(es):
1. PURPOSE

Requests that all port camp-on activity be stopped. If a busy port (trunk or line) is being camped on to remove it from service or restore it to service, this message forces the camp-on activity to timeout immediately.

2. FORMAT

STP:CAMP, {DN=a|TRK=b-c};

3. EXPLANATION OF MESSAGE

a = Directory number.

b = Trunk group number.

c = Member number of the trunk group.

4. SYSTEM RESPONSE

NG = No good. The message was not recognized. Repeat the request.

PF = Printout follows. The request has been accepted and the specified camp-on will be removed if possible. Followed by the STP:CAMPON output message.

RL = Retry later. The request cannot be executed now because the system is busy.

5. REFERENCES

Output Message(s):

STP:CAMPON
STP:CAMPON-A

Software Release: 5E14 only
Command Group: TRKLN
Application: 5
Type: Input

1. PURPOSE

Requests that all camp-on activity on a trunk, line, data link, or operator services position system port (OSPSPORT) caused by a RMV:TRK, RMV:LINE, RMV:DATALINK, RMV:OSPSPORT, RST:TRK, RST:LINE, RST:DATALINK, or RST:OSPSPORT input message be stopped.

If a traffic busy trunk, line, data link, or OSPSPORT is being camped on from one of the above requests, this message forces the camp-on activity to time-out immediately, causing the RMV or RST to terminate without removing or restoring the trunk, line, data link, or OSPSPORT. The status of the trunk, line, data link, or OSPSPORT will be unchanged.

If a directory number (DN) or a line card equipment number (LCEN) or a line circuit equipment number (LCKEN) or an integrated digital carrier unit (IDCU) line equipment number (ILEN) or an integrated digital loop carrier (IDLC) networking equipment number (INEN) is specified and a channel is not specified, and the line, data link, or OSPSPORT is a digital subscriber line (DSL), then the entire DSL (D and both B-channels) will be affected. If the D-channel is specified, then the entire DSL is affected. If a B-channel is specified, then only that channel is affected.

If the line being camped on is a 1-DN line time-slot bridging (LTSB) line and a DN with no member number is entered, the camp-ons will be stopped on both lines in the bridged group. If the line being camped on is a LTSB line and a DN with a member number of '1' or '2' is entered, camp-ons will be stopped on the line associated with the member number entered (only the one line will be affected).

If the line being camped on is a common DN dual permanent packet B-channel (PPB) DSL and no channel number is entered, the camp-ons will be stopped on both channels of the DSL. If the DN being camped on is a dual PPB DSL and a channel number of 'B1' or 'B2' is entered, camp-ons will be stopped on the channel associated with the channel number entered (only the one channel will be affected).

2. FORMAT

STP:CAMPON,a[,CH=b];

3. EXPLANATION OF MESSAGE

Note: Refer to the Acronym section of the Input Messages manual for the full expansion of acronyms shown in the format.

\[ a \] = Equipment number or identifier. Valid value(s):

\begin{align*}
\text{AIUEN} & = \text{f-v}^{1}\text{w}_{1}\text{x}^{1} \\
\text{DEN} & = \text{g-h-1} \\
\text{ILEN} & = \text{f-g}^{1}\text{i}_{1}^{1}\text{l}_{1}^{1} \\
\text{LCEN} & = \text{f-j-k-o}^{1}\text{p}^{1} \\
\text{LEN} & = \text{f-j-m-n-o-p} \\
\text{PKTDN} & = \text{f-s+t-u} \\
\text{XDB} & = \text{d-e} \\
\end{align*}

\[ b \] = Channel identifier. (D, B1, or B2.) Used only for DSL lines, data links, and OSPSPORTs.

\[ c \] = Telephone number.
d = Data link (group) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

e = Relative link (member) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

f = Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

g = Digital line and trunk unit (DLTU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

h = Digital facility interface (DFI) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

i = Channel number. If this is a DFI-2, channels 1-24 are associated with facility T1 A and channels 25-48 are associated with facility T1 B. Otherwise, there is only one T1 facility. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

j = Line unit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

k = Line group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

l = Line card number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

m = Grid number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

n = Switch board number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

o = Switch number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

p = Level number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

q = Multi-line hunt group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

r = Multi-line hunt group member number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

s = Digital carrier line unit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

t = Remote terminal (RT) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

u = RT line number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
v = Trunk unit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

w = Service group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

x = Channel board number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

y = Circuit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

z = Trunk group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

a1 = Trunk member number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

d1 = Member number of the multi-line hunt group (MLHG) or LTSB line. For MLHG the DN specified must be the main DN for the group and the member number specifies which member of the group will be accessed. For LTSB a member number of ‘1’ will stop the camp-on of the lead line and a member number of ‘2’ will stop the camp-on of the associate line.

e1 = EIS identifier on which the (CPDL) terminates. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

f1 = External data link (member) number relative to the EIS. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

g1 = IDCU number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

h1 = Remote terminal (RT) number or IDCU digital signal level 1 (DS1) serving PUB43801 number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

i1 = RT line number or PUB43801 channel. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

j1 = Digital networking unit - synchronous optical network (SONET) (DNU-S) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

k1 = Data group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

l1 = Synchronous transport signal (STS) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

m1 = Virtual tributary group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

n1 = Digital signal level 0 (DS0). Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

o1 = Line board number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
p = Line circuit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

q = PSU unit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

r = PSU shelf number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

s = PSU channel group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

t = PSU channel group member number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

u = Line group controller number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

v = Access interface unit (AIU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

w = AIU pack number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

x = AIU circuit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

y = SONET termination equipment (STE) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

z = Virtual tributary member number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

PF = Printout follows. The request has been accepted. Followed by the STP:CAMPON output message.

RL = Retry later. The request has been denied, probably due to system load.

5. REFERENCES

Input Message(s):

OP:CAMPON
RMV:DATALINK
RMV:LINE
RMV:OSPSPORT
RMV:TRK
RST:DATALINK
RST:LINE
RST:OSPSPORT
RST:TRK
Output Message(s):

REPT: CAMPON
STF: CAMPON

Input Appendix(es):

APP: RANGES
1. PURPOSE

Requests that all camp-on activity on a trunk, line, data link, or operator services position system port (OSPSPORT) caused by a RMV:TRK, RMV:LINE, RMV:DATALINK, RMV:OSPSPORT, RST:TRK, RST:LINE, RST:DATALINK, or RST:OSPSPORT input message be stopped.

If a traffic busy trunk, line, data link, or OSPSPORT is being camped on from one of the above requests, this message forces the camp-on activity to time-out immediately, causing the RMV or RST to terminate without removing or restoring the trunk, line, data link, or OSPSPORT. The status of the trunk, line, data link, or OSPSPORT will be unchanged. If a directory number (DN) or a line card equipment number (LCEN) or a line circuit equipment number (LCKEN) or an integrated digital carrier unit (IDCU) line equipment number (ILEN) or an integrated digital loop carrier (IDLC) networking equipment number (INEN) is specified and a channel is not specified, and the line, data link, or OSPSPORT is a digital subscriber line (DSL), then the entire DSL (D and both B-channels) will be affected. If the D-channel is specified, then the entire DSL is affected. If a B-channel is specified, then only that channel is affected. If the line being camped on is a 1-DN line time-slot bridging (LTSB) line and a DN with no member number is entered, the camp-ons will be stopped on both lines in the bridged group. If the line being camped on is a LTSB line and a DN with a member number of ‘1’ or ‘2’ is entered, camp-ons will be stopped on the line associated with the member number entered (only the one line will be affected). If the line being camped on is a common DN dual permanent packet B-channel (PPB) DSL and no channel number is entered, the camp-ons will be stopped on both channels of the DSL. If the DN being camped on is a dual PPB DSL and a channel number of ‘B1’ or ‘B2’ is entered, camp-ons will be stopped on the channel associated with the channel number entered (only the one channel will be affected).

2. FORMAT

STP:CAMPON,a[,CH=b];

3. EXPLANATION OF MESSAGE

Note: Refer to the Acronym section of the Input Messages manual for the full expansion of acronyms shown in the format.

\[ a \quad = \quad \text{Equipment number or identifier. Valid value(s):} \]

<table>
<thead>
<tr>
<th>Acronym</th>
<th>Expansion</th>
</tr>
</thead>
<tbody>
<tr>
<td>AIUEN</td>
<td>f-v^1_w^1_x^1</td>
</tr>
<tr>
<td>AQEST</td>
<td>c</td>
</tr>
<tr>
<td>AQM</td>
<td>d-e</td>
</tr>
<tr>
<td>DEN</td>
<td>f-g-h-i</td>
</tr>
<tr>
<td>DN</td>
<td>c[-d^1]</td>
</tr>
<tr>
<td>EIS</td>
<td>e^1-f^1</td>
</tr>
<tr>
<td>ILEN</td>
<td>f-g^1-h^1-i^1</td>
</tr>
<tr>
<td>INEN</td>
<td>f-j^1-h^1-i^1</td>
</tr>
<tr>
<td>LCEN</td>
<td>f-j-u^1-i^1</td>
</tr>
<tr>
<td>LCKEN</td>
<td>f-j-k-o^1-p^1</td>
</tr>
<tr>
<td>LEN</td>
<td>f-j-m-n-o-p</td>
</tr>
<tr>
<td>MLHG</td>
<td>q-r</td>
</tr>
<tr>
<td>NEN</td>
<td>f-j^1-k^1-y^1-l^1-m^1-z^1-n^1</td>
</tr>
<tr>
<td>OIUEN</td>
<td>f-k^2-l^2-m^2-n^2-o^2-p^2-q^2</td>
</tr>
<tr>
<td>PKTDN</td>
<td>c</td>
</tr>
<tr>
<td>PLTEN</td>
<td>d^2-b^2-c^2-d^2</td>
</tr>
<tr>
<td>PSUEN</td>
<td>d^1-f^1-s^1-t^1</td>
</tr>
<tr>
<td>SLEN</td>
<td>f-s-t-u</td>
</tr>
<tr>
<td>TEN</td>
<td>f-v-w-x-y</td>
</tr>
<tr>
<td>TKGMN</td>
<td>z-a^1</td>
</tr>
<tr>
<td>VANA</td>
<td>f-e^2</td>
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<tr>
<td>VBRI</td>
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<td>VTRK</td>
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</tr>
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<td>f-i^2</td>
</tr>
<tr>
<td>VNCR</td>
<td>f-j^2</td>
</tr>
<tr>
<td>XDB</td>
<td>d-e</td>
</tr>
</tbody>
</table>

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b = Channel identifier. (D, B1, or B2.) Used only for DSL lines, data links, and OSPSPORTs.

c = Telephone number.

d = Data link (group) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

e = Relative link (member) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

f = Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

g = Digital line and trunk unit (DLTU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

h = Digital facility interface (DFI) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

i = Channel number. If this is a DFI-2, channels 1-24 are associated with facility T1 A and channels 25-48 are associated with facility T1 B. Otherwise, there is only one T1 facility. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

j = Line unit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

k = Line group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

l = Line card number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

m = Grid number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

n = Switch board number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

o = Switch number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

p = Level number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

q = Multi-line hunt group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

r = Multi-line hunt group member number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

s = Digital carrier line unit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

t = Remote terminal (RT) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
u = RT line number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

v = Trunk unit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

w = Service group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

x = Channel board number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

y = Circuit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

z = Trunk group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

a¹ = Trunk member number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

d¹ = Member number of the multi-line hunt group (MLHG) or LTSB line. For MLHG the DN specified must be the main DN for the group and the member number specifies which member of the group will be accessed. For LTSB a member number of ‘1’ will stop the camp-on of the lead line and a member number of ‘2’ will stop the camp-on of the associate line.

e¹ = EIS identifier on which the (CPDL) terminates. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

f¹ = External data link (member) number relative to the EIS. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

g¹ = IDCU number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

h¹ = Remote terminal (RT) number or IDCU digital signal level 1 (DS1) serving PUB43801 number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

i¹ = RT line number or PUB43801 channel. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

j¹ = Digital networking unit - synchronous optical network (SONET) (DNU-S) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

k¹ = Data group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

l¹ = Synchronous transport signal (STS) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

m¹ = Virtual tributary group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

n¹ = Digital signal level 0 (DS0). Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
a^1 = Line board number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

p^1 = Line circuit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

q^1 = PSU unit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

r^1 = PSU shelf number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

s^1 = PSU channel group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

t^1 = PSU channel group member number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

u^1 = Line group controller number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

v^1 = Access interface unit (AIU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

w^1 = AIU pack number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

x^1 = AIU circuit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

y^1 = SONET termination equipment (STE) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

z^1 = Virtual tributary member number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

a^2 = Peripheral control and timing line and trunk unit (PLTU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

b^2 = PCT facility interface (PCTFI) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

c^2 = Tributary number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

d^2 = Channel number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

e^2 = Virtual analog line number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

f^2 = Virtual BRI line number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

g^2 = Virtual trunk facility number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
h^2 = Virtual trunk channel number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

i^2 = Virtual network announcement resource number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

j^2 = Virtual network conference resource number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

k^2 = Optical interface unit (OIU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

l^2 = Protection group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

m^2 = STM-1 number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

n^2 = High order virtual container number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

o^2 = Low order virtual container group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

p^2 = Low order virtual container member number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

PF = Printout follows. The request has been accepted. Followed by the STP:CAMPON output message.

RL = Retry later. The request has been denied, probably due to system load.

5. REFERENCES

Input Message(s):

OP:CAMPON
RMV:DATALINK
RMV:LINE
RMV:OSPSPORT
RMV:TRK
RST:DATALINK
RST:LINE
RST:OSPSPORT
RST:TRK

Output Message(s):

REPT:CAMPON
STP:CAMPON
Input Appendix(es):

APP : RANGES
STP:CAMPON-C

**Software Release:** 5E16(1) and later

**Command Group:** TRKLN

**Application:** 5

**Type:** Input

1. **PURPOSE**

Requests that all camp-on activity on a trunk, line, data link, or operator services position system port (OSPSPORT) caused by a RMV:TRK, RMV:LINE, RMV:DATALINK, RMV:OSPSPORT, RST:TRK, RST:LINE, RST:DATALINK, or RST:OSPSPORT input message be stopped.

If a traffic busy trunk, line, data link, or OSPSPORT is being camped on from one of the above requests, this message forces the camp-on activity to time-out immediately, causing the RMV or RST to terminate without removing or restoring the trunk, line, data link, or OSPSPORT. The status of the trunk, line, data link, or OSPSPORT will be unchanged.

If a directory number (DN) or a line card equipment number (LCEN) or a line circuit equipment number (LCKEN) or an integrated digital carrier unit (IDCU) line equipment number (ILEN) or an integrated digital loop carrier (IDLC) networking equipment number (INEN) is specified and a channel is not specified, and the line, data link, or OSPSPORT is a digital subscriber line (DSL), then the entire DSL (D and both B-channels) will be affected. If the D-channel is specified, then the entire DSL is affected. If a B-channel is specified, then only that channel is affected.

If the line being camped on is a 1-DN line time-slot bridging (LTSB) line and a DN with no member number is entered, the camp-ons will be stopped on both lines in the bridged group. If the line being camped on is a LTSB line and a DN with a member number of ‘1’ or ‘2’ is entered, camp-ons will be stopped on the line associated with the member number entered (only the one line will be affected).

If the line being camped on is a common DN dual permanent packet B-channel (PPB) DSL and no channel number is entered, the camp-ons will be stopped on both channels of the DSL. If the DN being camped on is a dual PPB DSL and a channel number of ‘B1’ or ‘B2’ is entered, camp-ons will be stopped on the channel associated with the channel number entered (only the one channel will be affected).

2. **FORMAT**

```
STP:CAMPON,a[,CH=b];
```

3. **EXPLANATION OF MESSAGE**

Refer to the Acronym section of the Input Messages manual for the full expansion of acronyms shown in the format.

\( a \) = Equipment number or identifier. Valid value(s):

- AIUEN=\( f-v^1-w^1-x^1 \)
- AQEST=c
- AQM=d-e
- ATMPP=\( f-q^1-q^2-r^2 \)
- DEN=\( f-g-h-i \)
- DN=\( c[-d^2] \)
- EIS=\( e^1-f^1 \)
- ILEN=\( f-g^1-h^1-i^1 \)
- INEN=\( f-j^1-h^1-i^1 \)
- LCEN=\( f-j-u^1-l \)
- LCKEN=\( f-j-k-o^1-p^1 \)
LEN=f-j-m-n-o-p
MLHG=q-r
NEN=f-j\textsuperscript{i}-k\textsuperscript{j}-y\textsuperscript{l}-m\textsuperscript{l}-z\textsuperscript{l}-n\textsuperscript{1}
OIUEN=f-i\textsuperscript{2}-j\textsuperscript{2}-k\textsuperscript{2}-l\textsuperscript{2}-m\textsuperscript{1}-z\textsuperscript{1}-d\textsuperscript{2}
PKTEN=c
PLTEN=f-a\textsuperscript{2}-b\textsuperscript{2}-c\textsuperscript{2}-d\textsuperscript{2}
PSUEN=d-q\textsuperscript{1}-r\textsuperscript{1}-s\textsuperscript{1}-t\textsuperscript{1}
SLEN=f-s-t-u
TEN=f-v-w-x-y
TKGMN=z-a\textsuperscript{1}
VANA=f-e\textsuperscript{2}
VBRI=f-f\textsuperscript{2}
VTRK=f-g\textsuperscript{2}-h\textsuperscript{2}
XDB=d-e

\textbf{b} = Channel identifier. Valid value(s):

B1
B2
D

Used only for DSL lines, data links, and OSPSPORTs.

\textbf{c} = Telephone number.

\textbf{d} = Data link (group) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

\textbf{e} = Relative link (member) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

\textbf{f} = Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

\textbf{g} = Digital line and trunk unit (DLTU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

\textbf{h} = Digital facility interface (DFI) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

\textbf{i} = Channel number. If this is a DFI-2, channels 1-24 are associated with facility T1 A and channels 25-48 are associated with facility T1 B. Otherwise, there is only one T1 facility. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

\textbf{j} = Line unit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

\textbf{k} = Line group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

\textbf{l} = Line card number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
m = Grid number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

n = Switch board number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

o = Switch number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

p = Level number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

q = Multi-line hunt group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

r = Multi-line hunt group member number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

s = Digital carrier line unit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

t = Remote terminal (RT) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

u = RT line number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

v = Trunk unit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

w = Service group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

x = Channel board number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

y = Circuit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

z = Trunk group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

\(a^1\) = Trunk member number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

\(d^1\) = Member number of the multi-line hunt group (MLHG) or LTSB line. For MLHG the DN specified must be the main DN for the group and the member number specifies which member of the group will be accessed. For LTSB a member number of ‘1’ will stop the camp-on of the lead line and a member number of ‘2’ will stop the camp-on of the associate line.

\(e^1\) = EIS identifier on which the (CPDL) terminates. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

\(f^1\) = External data link (member) number relative to the EIS. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
g^1 = IDCU number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

h^1 = Remote terminal (RT) number or IDCU digital signal level 1 (DS1) serving PUB43801 number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

i^1 = RT line number or PUB43801 channel. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

j^1 = Digital networking unit - synchronous optical network (SONET) (DNU-S) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

k^1 = Data group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

l^1 = Synchronous transport signal (STS) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

m^1 = Virtual tributary group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

n^1 = Digital signal level 0 (DS0). Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

o^1 = Line board number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

p^1 = Line circuit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

q^1 = PSU unit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

r^1 = PSU shelf number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

s^1 = PSU channel group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

t^1 = PSU channel group member number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

u^1 = Line group controller number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

v^1 = Access interface unit (AIU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

w^1 = AIU pack number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

x^1 = AIU circuit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

y^1 = SONET termination equipment (STE) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
z = Virtual tributary member number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

a = Peripheral control and timing line and trunk unit (PLTU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

b = PCT facility interface (PCTFI) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

c = Tributary number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

d = Channel number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

e = Virtual analog line number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

f = Virtual BRI line number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

g = Virtual trunk facility number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

h = Virtual trunk channel number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

i = Optical interface unit (OIU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

j = Protection group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

k = OC-3 STE number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

l = STS level 1 (STS-1) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

q = Link number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

r = Virtual connection identifier (VCID) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

PF = Printout follows. The request has been accepted. Followed by the STP:CAMPON output message.

RL = Retry later. The request has been denied, probably due to system load.

5. REFERENCES
Input Message(s):

OP : CAMPON
RMV : DATALINK
RMV : LINE
RMV : OSPSPORT
RMV : TRK
RST : DATALINK
RST : LINE
RST : OSPSPORT
RST : TRK

Output Message(s):

REPT : CAMPON
STP : CAMPON

Input Appendix(es):

APP : RANGES
STP:CCS-ROUTE

Software Release: 5E15 and later
Command Group: CCS
Application: 5
Type: Input

1. PURPOSE

Requests that the reporting of accessibility status of the destination point codes (DPC), clusters and/or networks in the global switching module (GSM) by the OP:CCS-ROUTE message be stopped.

2. FORMAT

STP:CCS,ROUTE[,SM=a];

3. EXPLANATION OF MESSAGE

a = GSM number. CCS global SM number in which the request is to be stopped. No 'SM=' field on the command line implies request is for all GSMS in office.

4. SYSTEM RESPONSE

PF = Printout follows. Request accepted. May also include:
   - MSG SENT TO SOME GSMS = Not all global SMs were available. Printout follows for the ones the message has been sent to.

NG = No good. The message form is valid, but the message has been denied. Additional information is printed out to explain why the message was denied. May also include:
   - GSM/PROTOCOL MISMATCH = GSM entered by craft does not match protocol.
   - NO GLOBAL SM in the office = There are no Global SM in the office.

RL = Retry later. May also include:
   - SM NOT AVAILABLE = Request cannot be processed because the specified GSM is not accessible.
   - GSM(S) UNAVAILABLE = Request cannot be processed for all GSMS because one or more GSMS may not be accessible.
   - NO GSMS AVAILABLE = Request cannot be processed because none of the GSMS in the office is accessible.

5. REFERENCES

Input Message(s):

OP:CCS-ROUTE

Output Message(s):

STP:CCS-ROUTE
OP:CCS-ROUTE
Other Manual(s):
235-200-115  CNI Common Channel Signaling
235-200-116  Signaling Gateway Common Channel Signaling
STP:CCSCQ

Software Release: 5E14 and later
Command Group: MAINT
Application: 5
Type: Input

1. PURPOSE

Requests that the active circuit query request be stopped. Both demand circuit queries, initiated by an EXC:CCSCQ request, and periodic automatic queries administered by RC/V View 8.15 can be stopped by this input message.

Format 1 is used to stop an office-wide circuit query, either automatically scheduled or manually requested. The optional print parameter specifies whether or not the accumulated results of the input message being stopped will be printed. Format 2 is used to stop the active circuit query for the specified OPC/DPC. The printing of accumulated output is optional as described above. Format 3 is used to stop the active demand circuit query for the specified trunk group. The printing of accumulated output is optional as described above. Circuit queries for individual trunk group members can not be stopped (processing is quick and output is limited).

2. FORMAT

[1] STP:CCSCQ,OFFICE[,PRINT];
[2] STP:CCSCQ,OPC=a,DPC=b[,PRINT];
[3] STP:CCSCQ,TG=c[,PRINT];

3. EXPLANATION OF MESSAGE

a = Origination point code number. Refer to the APP:POINT-CODE appendix.

b = Destination point code number. Refer to the APP:POINT-CODE appendix.

c = Trunk group number. Refer to the APP:RANGES appendix.

PRINT = Option to print the accumulated results of the circuit query when it was stopped.

4. SYSTEM RESPONSE

NG = No good. May also include:

NO SUCH CQ REQUEST EXISTS

PF = Printout follows. The request has been accepted and the query has been stopped. Followed by the STP:CCSCQ output message.

5. REFERENCES

Input Message(s):

ALW:CCSCQ
EXC:CCSCQ
INH:CCSCQ
OP:CCSCQ
OP: JOBSTATUS

Output Message(s):

STP: CCSCQ
EXC: CCSCQ
OP: CCSCQ
OP: JOBSTATUS

Input Appendix(es):

APP: RANGES
APP: POINT-CODE

RC/V View(s):

8.15 ( CCS OFFICE PARAMETERS )

Other Manual(s):
235-190-120 Common Channel Signaling Service Features
STP:CDFI

Software Release: 5E14 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Requests that maintenance actions be stopped on an inter-remote switching module (RSM) communication link digital facilities interface (CDFI) circuit.

2. FORMAT

STP:[a,]CDFI=b-c-d;

3. EXPLANATION OF MESSAGE

a  = Action to be stopped (default is the action currently executing on the CDFI).
  DGN  = Diagnose.
  EX   = Exercise.
  RMV  = Remove.
  RST  = Restore.

b  = Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

c  = Digital line and trunk unit (DLTU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

d  = CDFI number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

NG  = No good. The message syntax is valid, but the request conflicts with current system or equipment status. May also include:
  SM DOES NOT EXIST
  SM UNEQUIPPED
  UNIT DOES NOT EXIST
  NOT STARTED UNIT IN GROWTH STATE

PF  = Printout follows. Followed by the STP:CDFI output message.

RL  = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

Input Message(s):

DGN:CDFI
EX:CDFI
RMV: CDFI
RST: CDFI

Output Message(s):

STP: CDFI

Input Appendix(es):

APP: RANGES
STP:CDI

Software Release: 5E14 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE
Requests that specified actions on the control data interface (CDI) at the specified location be stopped.

2. FORMAT
STP:[a,]CDI=b-c-d;

3. EXPLANATION OF MESSAGE

a = Action to be stopped (default is the action currently executing on the CDI). Valid value(s):
   DGN = Diagnose.
   EX  = Exercise.
   RMV = Remove.
   RST = Restore.

b = Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

c = Trunk unit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

d = Service group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

NG = No good. The request has been denied because of a conflict with current status.

PF = Printout follows. Followed by the STP:CDI output message.

5. REFERENCES

Input Message(s):
   DGN:CDI
   EX:CDI
   RMV:CDI
   RST:CDI

Output Message(s):
   STP:CDI

Input Appendix(es):
APP: RANGES
**STP:CMP**

*Software Release:* 5E14 and later  
*Command Group:* CM  
*Application:* 5  
*Type:* Input

1. **PURPOSE**

Requests that specific actions on a communication module processor (CMP) be stopped (Format 1). Format 2 is used when stopping an offline pump.

2. **FORMAT**

[1]  
STP: [a,] CMP=b-c;

[2]  
STP: OPUMP, CMP=c, MATE;

3. **EXPLANATION OF MESSAGE**

<table>
<thead>
<tr>
<th>MATE</th>
<th>= Non-active CMP.</th>
</tr>
</thead>
<tbody>
<tr>
<td>a</td>
<td>= Action to be stopped. Valid value(s):</td>
</tr>
<tr>
<td>DGN</td>
<td>= Diagnose. (Not valid for CM3)</td>
</tr>
<tr>
<td>EX</td>
<td>= Exercise. (Not valid for CM3)</td>
</tr>
<tr>
<td>RMV</td>
<td>= Remove.</td>
</tr>
<tr>
<td>RST</td>
<td>= Restore.</td>
</tr>
<tr>
<td>SW</td>
<td>= Switch.</td>
</tr>
</tbody>
</table>

Note: The default is all actions currently waiting or executing on the CMP.

<table>
<thead>
<tr>
<th>b</th>
<th>= Message switch side number.</th>
</tr>
</thead>
<tbody>
<tr>
<td>c</td>
<td>= CMP number.</td>
</tr>
</tbody>
</table>

4. **SYSTEM RESPONSE**

<table>
<thead>
<tr>
<th>IP</th>
<th>= In progress. The stop has been initiated. A completion message will be printed for the original request if the stop completes successfully. If no completion message is printed, determine the current status of the original request using the OP:DMQ-CM-SM input message, and consider using the abort (ABT) message, ABT:CMP, as a final resort if the original request is still present.</th>
</tr>
</thead>
<tbody>
<tr>
<td>NG</td>
<td>= No good. The request has been denied. The message syntax is valid, but the request could not be processed. Refer to the APP:CM-IM-REASON appendix in the Appendixes section of the Input Messages manual for a list of possible reasons for denying the request.</td>
</tr>
</tbody>
</table>

5. **REFERENCES**

Input Message(s):
Input Appendix(es):

APP:CM-IM-REASON

Output Message(s):

DGN:CMP
EX:CMP
OP:DMQ-CM
RMV:CMP
RST:CMP
ST:OPUMP-CMP
SW:CMP

Other Manual(s):

235-105-110   System Maintenance Requirements and Tools
235-105-220   Corrective Maintenance
235-105-250   System Recovery Procedures
STP:CMPR-MHD

Software Release: 5E14 and later
Command Group: FHADM
Application: 5.3B
Type: Input

1. PURPOSE

Stops any CMPR:MHD input messages that are currently executing.

2. FORMAT

STP:CMPR:MHD;

3. EXPLANATION OF MESSAGE

None.

4. SYSTEM RESPONSE

NG = No good. No CMPR:MHD input message currently executing.
OK = Request accepted.

5. REFERENCES

Input Message(s):

CMPR:MHD

Output Message(s):

CMPR:MHD
1. PURPOSE
Stops any COPY:DIFF:SRC input messages that are currently executing.

2. FORMAT
STP: COPY: DIFF;

3. EXPLANATION OF MESSAGE
None.

4. SYSTEM RESPONSE
NG  = No good. No COPY:DIFF-SRC-MHD input message currently executing.
OK  = Request accepted.

5. REFERENCES
Input Message(s):
COPY:DIFF-SRC-MHD

Output Message(s):
COPY:DIFF-SRC-MHD
1. PURPOSE
Requests that the reporting of information related to calls pegging the default cell group (DCG) be stopped. The DCG is the zero cell group.

2. FORMAT
STP:DCGRPT;

3. EXPLANATION OF MESSAGE
No variables.

4. SYSTEM RESPONSE
NG = No good. May also include:
   - NOT ALLOWED - DIV OF REV OPTION OFF = The request has been denied because division of revenue option must be on.

OK = Good. The request has been accepted. All subsequent occurrences of calls pegging the default cell group will not print the information report (REPT:DCGRPT).

5. REFERENCES
Input Message(s):
   ALW:DCGRPT

Output Message(s):
   REPT:DCGRPT

Other Manual(s):
235-070-100 Administration and Engineering Guidelines
TG-5 Translation Guide
STP:DCLU

Software Release: 5E14 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Requests that actions on a specified SLC®96 digital carrier line unit (DCLU) stop.

2. FORMAT

STP: [a,]DCLU=b-c-d;

3. EXPLANATION OF MESSAGE

a = Action to be stopped (default is the action currently executing on the DCLU). Valid value(s):
   DGN = Diagnose.
   EX  = Exercise.
   RMV = Remove.
   RST = Restore.

b = Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

c = DCLU number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

d = Service group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

NG = No good. The request has been denied. The message form is valid, but the request conflicts with current status.

PF  = Printout follows. The request was accepted. Followed by the STP:DCLU output message.

5. REFERENCES

Input Message(s):
   DGN:DCLU
   EX:DCLU
   RMV:DCLU
   RST:DCLU

Output Message(s):
   STP:DCLU
Input Appendix(es):

APP : RANGES
STP:DCTUCOM

Software Release: 5E14 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Requests that actions on the directly connected test unit common board (DCTUCOM) at the specified location be stopped.

2. FORMAT

STP: [a,]DCTUCOM=b-c;

3. EXPLANATION OF MESSAGE

a = Action to be stopped (default is the action currently executing on the DCTUCOM). Valid value(s):
   DGN = Diagnose.
   EX = Execute.
   RMV = Remove.
   RST = Restore.

b = Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

c = Unit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

NG = No good. The request has been denied. The message form is valid, but the request conflicts with current status.

PF = Printout follows. Followed by the STP:DCTUCOM output message.

RL = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

Input Message(s):
   DGN:DCTUCOM
   EX:DCTUCOM
   RMV:DCTUCOM
   RST:DCTUCOM

Output Message(s):
   STP:DCTUCOM
Input Appendix(es):

APP : RANGES
STP:DCTUPORT

Software Release: 5E14 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Requests that actions on the directly connected test unit port (DCTUPORT) at the specified location be stopped.

2. FORMAT

STP: [a,] DCTUPORT=b-c-d;

3. EXPLANATION OF MESSAGE

a = Action to be stopped (default is the action currently executing on the DCTUPORT). Valid value(s):
   DGN = Diagnose.
   EX = Exercise.
   RMV = Remove.
   RST = Restore.

b = Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

c = Unit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

d = Circuit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

NG = No good. The request has been denied. The message form is valid, but the request conflicts with current status.

PF = Printout follows. Followed by the STP:DCTUPORT output message.

RL = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

Input Message(s):

   DGN:DCTUPORT
   EX:DCTUPORT
   RMV:DCTUPORT
   RST:DCTUPORT

Output Message(s):
STP:DCTUPORT

Input Appendix(es):

APP: RANGES
1. PURPOSE

Requests that actions on the digital facility interface (DFI) at the specified location be stopped.

2. FORMAT

   STP:[a,,DFI=b-c-d;

3. EXPLANATION OF MESSAGE

   a  = Action to be stopped (default is the action currently executing on the DFI). Valid value(s):
       DGN  = Diagnose.
       EX   = Exercise.
       RMV  = Remove.
       RST  = Restore.

   b  = Switching module number. Refer to the APP:RANGES appendix in the Appendixes section of the
       Input Messages manual.

   c  = Digital line/trunk unit number. Refer to the APP:RANGES appendix in the Appendixes section of
       the Input Messages manual.

   d  = DFI number. Refer to the APP:RANGES appendix in the Appendixes section of the Input
       Messages manual.

4. SYSTEM RESPONSE

   NG  = No good. The request has been denied because of a conflict with current status.

   PF  = Printout follows. Followed by the STP:DFI output message.

5. REFERENCES

Input Message(s):

   DGN:DFI
   EX:DFI
   RMV:DFI
   RST:DFI

Output Message(s):

   STP:DFI

Input Appendix(es):
STP:DFIH

Software Release: 5E14 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Requests that maintenance actions on a remote integrated services line unit (RISLU) host/remote digital facility interface circuit pair (DFIH) be stopped.

2. FORMAT

STP: [a,]DFIH=b-c-d;

3. EXPLANATION OF MESSAGE

a = Action to be stopped. Valid value(s):
DGN = Diagnose.
EX = Exercise.
RMV = Remove.
RST = Restore.
Note: The default is the action currently executing on the DFIH.

b = Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

c = RISLU digital line and trunk unit (DLTU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

d = DFIH number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

NG = No good. May also include:
- CONFLICT WITH UNIT STATE
- SM DOES NOT EXIST
- SM UNEQUIPPED
- UNIT DOES NOT EXIST

PF = Printout follows. Followed by the STP:DFIH output message.

RL = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

Input Message(s):

DGN:DFIH
EX:DFIH
RMV:DFIH
RST:DFIH

Output Message(s):
STP:DFIH

Input Appendix(es):
APP:RANGES
STP:DFTAC

Software Release: 5E14 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Requests that currently running actions on the distributing frame test access circuit (DFTAC) be stopped.

2. FORMAT

STP:[e,]DFTAC=a-b-c-d;

3. EXPLANATION OF MESSAGE

a = Switching module number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

b = Metallic service unit (MSU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

c = Service group. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

d = Circuit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

e = The action to be stopped. Valid value(s):
   DGN = Diagnose.
   EX = Exercise.
   RMV = Remove.
   RST = Restore.

4. SYSTEM RESPONSE

NG = No good. Invalid SM number, MSU number, or service group number.

PF = Printout follows. Followed by the STP:DFTAC output message.

RL = Retry later. The request cannot be executed now due to unavailable system resources (such as, SM not linked).

5. REFERENCES

Input Message(s):
   DGN:DFTAC
   EX:DFTAC
   RMV:DFTAC
   RST:DFTAC
Output Message(s):
  STP: DFTAC

Input Appendix(es):
  APP: RANGES
STP:DGN-A

Software Release: 5E14 only
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Requests that the current diagnostic on the unit specified be stopped.

2. FORMAT

STP:DGN,a;

3. EXPLANATION OF MESSAGE

a = Unit to be stopped. Valid value(s):

AIUCOM=b-c-f
AIULC=b-c-d-g
AIULP=b-c-h
AIURG=b-c-j
AIUTSGRP=b-c-f-i
ALIT=b-c-d-e
ASC=b
BTSR=b
CDFI=b-l-c
CDI=b-c-d
CMP=m-c
DCLU=b-c-d
DCTUCOM=b-c
DCTUPORT=b-c-n
DFI=b-l-c
DFIH=b-l-c
DFTAC=b-c-d-n
DIST=b-c-d-e
DLI=b[&o]-p
DNUSCC=b-c-q
DNUSCD=b-c-r-s
EAN=b-c
FPC=c
GDSF=b-c
GDSUCOM=b-c-d
GDXACC=b-k-d
GDXC=b-c-d-e
GDXCON=b-k-d
GRID=b-k-c
GRIDBD=b-k-c-e
HDFI=b-l-c
IDCU=b-c-d
ISLUC=b-c-q
ISLUCD=b-c-s
ISLUHLSC=b-c-d-t
ISLULBD=b-c-u-e
ISLULC=b-c-u-v
b = Switching module number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

c = Unit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

d = Service group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

e = Board number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

f = COMDAC number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

g = LC number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

h = LP number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

i = TSGRP number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

j = Ring generator number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

k = Line unit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

l = Digital line and trunk unit (DLTU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

m = Message switch side number.

n = Circuit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

o = Upper limit of a range of SM numbers. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

p = Side of the ONTC that the unit is on. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

q = Common controller number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

r = Data group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

s = Common data number. Refer to the APP:RANGES appendix in the Appendixes section of the
Input Messages manual.

\( t \) = High level service circuit number. Refer to the APP:RANGES appendix in the Appendixes section of the Output Messages manual.

\( u \) = Line group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

\( v \) = Line card number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

\( w \) = Line group controller number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

\( x \) = Access network board. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

\( y \) = Channel number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

\( z \) = MMP logical identification number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

\( a^1 \) = Metallic access test bus number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

\( b^1 \) = Shelf number.

\( c^1 \) = Protocol handler number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

\( d^1 \) = QLPS network number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

\( e^1 \) = RISLU number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

\( f^1 \) = STSX-1 facility interface number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

\( IP \) = In progress. The stop has been initiated. A completion message will be printed for the original request if the stop completes successfully.

For CMP messages, if no completion message is printed, determine the current status of the original request using the OP:DMQ-CM-SM input message, and consider using the appropriate abort message as a final resort if the original request is still present.

\( NG \) = No good. The request has been denied because of a conflict with current status. May also include:
-\( \text{CONFLICT WITH UNIT STATE} \)
-\( \text{SM DOES NOT EXIST = The requested SM does not exist in the system.} \)
-\( \text{SM UNEQUIPPED = The SM specified in the request is unequipped.} \)
-\( \text{NOT STARTED UNIT IN GROWTH STATE} \)
- **UNIT DOES NOT EXIST** = The requested unit does not exist in the system.

For CMP messages, refer to the APP:CM-IM-REASON appendix in the Appendixes section of the Input Messages manual for a list of possible reasons for denying the request.

**OK** = Good. The action will be stopped.

**PF** = Printout follows. Followed by the corresponding output message.

**RL** = Retry later. The request cannot be executed now due to unavailable system resources.

### 5. REFERENCES

Input Message(s):

- ABT:CMP
- ABT:ISTF
- ABT:MSCU
- ABT:MSGS
- ABT:NLI
- ABT:RAF
- DGN:AIUCOM
- DGN:AIULC
- DGN:AIULP
- DGN:AIUPIDB
- DGN:AIURG
- DGN:ALIT
- DGN:ASC
- DGN:BTSR
- DGN:CDFI
- DGN:CDI
- DGN:CMP
- DGN:DCLU
- DGN:DCTUCOM
- DGN:DCTUPORT
- DGN:DFI
- DGN:DFIH
- DGN:DFTAC
- DGN:DIST
- DGN:DLI
- DGN:DNUSCC
- DGN:DNUSCD
- DGN:EAN
- DGN:FPC
- DGN:GDSF
- DGN:GSUCOM
- DGN:GDXACC
- DGN:GDXC
- DGN:GDXCON
- DGN:GRID
- DGN:GRIDBD
- DGN:HDFI
- DGN:IDCU
- DGN:ISLUCC
Output Message(s):

DGN:CMP
DGN:DLI
DGN:PPC
DGN:LI
DGN:MI
DGN:MMP
DGN:NC
DGN:NLI
DGN:ONTC
DGN:ONTCCOM
DGN:PPC
DGN:QGP
DGN:QLPS
DGN:TMS
OP:DMQ
OP:DMQ–CM
OP:DMQ–SM
STP:AIUCOM
STP:AIULC
STP:AIULP
STP:AIURG
STP:AIUTSGRP
STP:ALIT
STP:ASC
STP:BTSR
STP:CDFI
STP:CDI
STP:DCLU
STP:DCTUCOM
STP:DCTUPORT
STP:DFI
STP:DFIH
STP:DFTAC
STP:DIST
STP:DNUSCC
STP:DNUSCD
STP:EAN
STP:GDSF
STP:GDSUCOM
STP:GDXACC
STP:GDXC
STP:GDXCON
STP:GRID
STP:GRIDBD
STP:HDFI
STP:IDCU
STP:ISLUCC
STP:ISLUCD
STP:ISLUHLSC
STP:ISLULBD
STP:ISLULC
STP:ISLULCKT
STP:ISLULG
STP:ISLULGC
STP:ISLUHMAN
STP:ISLURG
STP:ISTF
STP:LDSF
STP:LDSU
STP:LDSUCOM
STP:LUCHAN
STP:LUCHBD
STP:LUCOMC
STP:LUHLSC
STP:MA
STP:MAB
STP:MCTSI
STP:MSUCOM
STP:MTB
STP:MTIB
STP:MTIBAX
STP:PMU
STP:PROTO
STP:PSU
STP:QLFS
STP:RAF
STP:RAU
STP:RCLK
STP:RDFI
STP:RLI
STP:RRCLK
STP:RVPT
STP:SAS
STP:SCAN
STP:SDFI
STP:SFI
STP:SLIM
STP:TAC
STP:TEH
STP:TMUX
STP:TTFCOM
STP:TUCHBD
STP:UCONF
STP:UTD
STP:UTG

Input Appendix(es):
APP:CM–IM–REASON
APP:RANGES

Other Manual(s):
235-105-110  System Maintenance Requirements and Tools
235-105-220  Corrective Maintenance
235-105-250  System Recovery Procedures

MCC Display Page(s):
1135/1145    MSU MA STATUS
1190         MCTSI
1200         DLI/NLI
1320,y,x     AIU SUMMARY
1321,y,x     AIU TGRP SUMMARY
1322,y,x     AIU RG STATUS
1323,y,z,x   AIU AP STATUS
1510         DNUS STATUS
170x         ISLU NETWORK
170xy        ISLU LINE GROUP
171x         ISLU-Z
186x         IDCU CIRCUIT
              RSM RCU
STP:DGN-B
Software Release: 5E15 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE
Requests that the current diagnostic on the unit specified be stopped.

2. FORMAT
STP:DGN,a;

3. EXPLANATION OF MESSAGE
a = Unit to be stopped. Valid value(s):
   AIUCOM=b-c-f
   AIULC=b-c-d-g
   AIULP=b-c-h
   AIUTSGRP=b-c-f-i
   AIURG=b-c-j
   ALIT=b-c-d-e
   ASC=b
   BTSR=b
   CDFI=b-l-c
   CDI=b-c-d
   CMP=m-c
   DCLU=b-c-d
   DCTUCOM=b-c
   DCTUPORT=b-c-n
   DFI=b-l-c
   DFIH=b-l-c
   DFTAC=b-c-d-n
   DIST=b-c-d-e
   DLI=b[&o]-p
   DNUSSC=b-c-q
   DNUSSCD=b-c-r-s
   EAN=b-c
   FPC=c
   GDSF=b-c
   GDSUCOM=b-c-d
   GDXACC=b-k-d
   GDXC=b-c-d-e
   GDXCON=b-k-d
   GRID=b-k-c
   GRIDBD=b-k-c-e
   HDFI=b-l-c
   IDCU=b-c-d
   ISLUC=b-c-q
   ISLUCD=b-c-s
   ISLUHLSC=b-c-d-t
   ISLULBD=b-c-u-e
   ISLULC=b-c-u-v
b = Switching module number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

c = Unit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

d = Service group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

e = Board number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

f = COMDAC number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

g = LC number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

h = LP number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

i = TSGRP number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

j = Ring generator number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

k = Line unit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

l = Digital line and trunk unit (DLTU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

m = Message switch side number.

n = Circuit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

o = Upper limit of a range of SM numbers. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

p = Side of the ONTC that the unit is on. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

q = Common controller number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

r = Data group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

s = Common data number. Refer to the APP:RANGES appendix in the Appendixes section of the
Input Messages manual.

t = High level service circuit number. Refer to the APP:RANGES appendix in the Appendixes section of the Output Messages manual.

u = Line group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

v = Line card number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

w = Line group controller number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.


y = Channel number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

z = MMP logical identification number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

a$^1$ = Metallic access test bus number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

b$^1$ = Shelf number.

c$^1$ = Protocol handler number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

d$^1$ = QLPS network number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

e$^1$ = RISLU number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

f$^1$ = STSX-1 facility interface number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

IP = In progress. The stop has been initiated. A completion message will be printed for the original request if the stop completes successfully.

For CMP messages, if no completion message is printed, determine the current status of the original request using the OP:DMQ-CM-SM input message, and consider using the appropriate abort message as a final resort if the original request is still present.

NG = No good. The request has been denied because of a conflict with current status. May also include:

- CONFLICT WITH UNIT STATE
- SM DOES NOT EXIST = The requested SM does not exist in the system.
- SM UNEQUIPPED = The SM specified in the request is unequipped.
- NOT STARTED UNIT IN GROWTH STATE
UNIT DOES NOT EXIST = The requested unit does not exist in the system.

For CMP messages, refer to the APP:CM-IM-REASON appendix in the Appendixes section of the Input Messages manual for a list of possible reasons for denying the request.

OK = Good. The action will be stopped.

PF = Printout follows. Followed by the corresponding output message.

RL = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

Input Message(s):

ABT:CMP
ABT:ISTF
ABT:MSCU
ABT:MSGS
ABT:NLI
ABT:RAF
DGN:AIUCOM
DGN:AIULC
DGN:AIULP
DGN:AIUPIDB
DGN:AIURG
DGN:ALIT
DGN:ASC
DGN:BTSR
DGN:CFI
DGN:CDI
DGN:CMD
DGN:DCLU
DGN:DCTUCOM
DGN:DCTUPORT
DGN:DFI
DGN:DIIH
DGN:DFTAC
DGN:DIST
DGN:DLI
DGN:DNUSCC
DGN:DNUSCD
DGN:EAN
DGN:FPC
DGN:GDSF
DGN:GDSUCOM
DGN:GDXACC
DGN:GDXC
DGN:GDXCON
DGN:GRID
DGN:GRIDBD
DGN:HDFI
DGN:IDCU
DGN:ISLUCC
DGN:TUCHBD
DGN:UCONF
DGN:UTD
DGN:UTG
OP:DMQ
OP:DMQ–CM–SM
OP:OOS
STP:FAC
STP:QLPS

Output Message(s):
DGN:CMP
DGN:DLI
DGN:PPC
DGN:L1
DGN:MI
DGN:MMP
DGN:NC
DGN:NLI
DGN:ONTC
DGN:ONTCCOM
DGN:PPC
DGN:QGP
DGN:QLPS
DGN:TMS
OP:DMQ
OP:DMQ–CM
OP:DMQ–SM
STP:AIUCOM
STP:AIULC
STP:AIULP
STP:AIURG
STP:AIUTSGRP
STP:ALIT
STP:ASC
STP:BTSR
STP:CDFI
STP:CDI
STP:DCLU
STP:DCTUCOM
STP:DCTUPORT
STP:DFI
STP:DFIH
STP:DFTAC
STP:DIST
STP:DNUSCC
STP:DNUSCD
STP:EAN
STP:GDSF
STP:GDSUCOM
STP:GDXACC
STP:GDXC
STP:GDXCON
STP:GRID
STP:GRIDBD
STP:HDFI
STP:IDCU
STP:ISLUCC
STP:ISLUCD
STP:ISLUHLSC
STP:ISLULBD
STP:ISLULC
STP:ISLULCKT
STP:ISLULG
STP:ISLULGC
STP:ISLUMAN
STP:ISLURG
STP:ISTF
STP:LDSF
STP:LDSU
STP:LDSUCOM
STP:LUCHAN
STP:LUCHBD
STP:LUCOMC
STP:LUHLSC
STP:MA
STP:MAB
STP:MCTSI
STP:MSUCOM
STP:MTB
STP:MTIB
STP:MTIBAX
STP:PMU
STP:PROTO
STP:PSU
STP:QLFS
STP:RAF
STP:RAU
STP:RCLK
STP:RDFI
STP:RLI
STP:RRCLK
STP:RVPT
STP:SAS
STP:SCAN
STP:SDFI
STP:SFI
STP:SLIM
STP:TAC
STP:TEN
STP:TMUX
STP:TMUX
STP:TTFCOM
STP:TUCHBD
STP:UCONF
STP:UTD
STP:UTG

Input Appendix(es):
Other Manual(s):
235-105-110 System Maintenance Requirements and Tools
235-105-220 Corrective Maintenance
235-105-250 System Recovery Procedures

MCC Display Page(s):
1135/1145 MSU MA STATUS
1190 MCTSI
1200 DLI/NLI
1320,y,x AIU SUMMARY
1321,y,x AIU TSGRP SUMMARY
1322,y,x AIU RG STATUS
1323,y,z,x AIU AP STATUS
1510 DNUS STATUS
170x ISLU NETWORK
170xy ISLU LINE GROUP
171x ISLU-Z
186x IDCU CIRCUIT
RSM RCU
STP:DIST

Software Release: 5E14 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE
Requests that actions on the distribute point board (DIST) at the specified location be stopped.

2. FORMAT
STP: [a,] DIST=b-c-d-e;

3. EXPLANATION OF MESSAGE
   a = Action to be stopped (default is the action currently executing on the distribute point board). Valid value(s):
      DGN = Diagnose.
      EX  = Exercise.
      RMV = Remove.
      RST = Restore.
   b = Switching module number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
   c = Metallic service unit (MSU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
   d = Service group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
   e = Board number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE
   NG = No good. The request has been denied because of a conflict with current status.
   PF = Printout follows. Followed by the STP:DIST output message.

5. REFERENCES
Input Message(s):
   DGN:DIST
   EX:DIST
   RMV:DIST
   RST:DIST

Output Message(s):
STP: DIST

Input Appendix(es):

APP: RANGES
**STP:DLI**

**Software Release:** 5E14 and later  
**Command Group:** CM  
**Application:** 5  
**Type:** Input

1. **PURPOSE**

Requests that an action on a specific dual link interface (DLI) or range of DLIs in the specified office network and timing complex (ONTC) be stopped.

Stop is differentiated from abort by the action of the request. A stop action is not immediate, but waits for a 'clean' point of termination (such as, the end of a phase), and will attempt to leave the hardware in a sane state. An abort action is immediate and the state of the hardware is not guaranteed.

2. **FORMAT**

`STP: [a,] DLI=b[&c]-d;`

3. **EXPLANATION OF MESSAGE**

   a = Action being stopped (default is any action currently waiting or executing on the DLI). Valid value(s):
   - `DGN` = Diagnose.
   - `EX` = Exercise.
   - `RST` = Restore.

   Note: A remove or unconditional restore cannot be stopped once it is accepted.

   b = Switching module (SM) number, or the lower limit of a range of SM numbers. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

   c = Upper limit of a range of SM numbers. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

   d = ONTC side that the DLI is on. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. **SYSTEM RESPONSE**

   **IP** = In progress. The stop has been initiated. A completion message will be printed for the original request when the stop has completed.

   **NG** = No good. The request has been denied. The message syntax is valid, but the request could not be processed. Refer to the APP:CM-IM-REASON appendix in the Appendixes section of the Input Messages manual for a list of possible reasons for denying the request.

5. **REFERENCES**

Input Message(s):
DGN: DLI
EX: DLI
OP: DMQ
RST: DLI

Output Message(s):

DGN: DLI
EX: DLI
OP: DMQ-CM
RST: DLI

Input Appendix(es):

APP: CM–IM–REASON
APP: RANGES
1. PURPOSE

Requests that the specified switching module (SM) have all deferred maintenance queue (DMQ) requests stopped.

This command will send a stop request to all processes either running or waiting that are under the control of the maintenance request administrator (MRA).

2. FORMAT

STP:DMQ,SM=a;

3. EXPLANATION OF MESSAGE

a = Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

NG = No good. The message form is valid but the request conflicts with current status.

PF = Printout follows. The request was accepted. The STP:DMQ output message will follow when the request has completed.

RL = Retry later. The request cannot be executed because system resources are unavailable.

5. REFERENCES

Input Message(s):

OP:DMQ

Input Appendix(es):

APP:RANGES

Output Message(s):

STP:DMQ
STP:DMQ

Software Release: 5E14 and later  
Command Group: MAINT  
Application: 5,3B  
Type: Input

1. PURPOSE

Requests that the specified administrative module (AM) maintenance request be stopped. The request is identified by the unit name and number and optionally the subunit name and number.

Any request handled by the maintenance input request administrator (MIRA) (restore, remove, diagnose) can be stopped by using this input message.

2. FORMAT

STP:DMQ: [a=b[,c=d]] [,ACTIVE|,WAITING];

3. EXPLANATION OF MESSAGE

ACTIVE  = Stop only active maintenance requests.

WAITING = Stop only waiting maintenance requests.

Note: If neither ACTIVE nor WAITING is specified, then both requests will be stopped.

a  = Unit name. AM unit names are listed in the APP:MEM-NUM-UNIT appendix in the Appendixes section of the Input Messages manual.

b  = Unit number. Refer to the APP:MEM-NUM-UNIT input appendix in Appendixes section of the Input Messages manual.

c  = Subunit name, if 'a'='CU'. AM subunit names are listed in the APP:MEM-NUM-CU input appendix in the Appendixes section of the Input Messages manual.

d  = Subunit Number. Refer to the APP:MEM-NUM-CU input appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

OK  = Good. Request accepted.

PF  = Printout follows. Followed by the STP:DMQ output message.

5. REFERENCES

Input Message(s):

OP:DMQ
STOP:DMQ

Input Appendix(es):
APP : MEM–NUM–CU
APP : MEM–NUM–UNIT

Output Message(s):

OP : DMQ–SM
STP : DMQ

Other Manual(s):
235-105-220 Corrective Maintenance
**STP:DNUSCC**

**Software Release:** 5E14 and later  
**Command Group:** SM  
**Application:** 5  
**Type:** Input

1. **PURPOSE**

Requests that maintenance actions be stopped on a digital networking unit - synchronous optical network (DNU-S) common controller (DNUSCC).

2. **FORMAT**

   ```
   STP: [a,]DNUSCC=b-c-d;
   ```

3. **EXPLANATION OF MESSAGE**

   a  
   = Action to be stopped (default is the action currently executing on the DNUSCC). Valid value(s):  
   DGN  = Diagnose.  
   RMV  = Remove.  
   RST  = Restore.  

   b  
   = Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

   c  
   = DNU-S number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

   d  
   = Common controller number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. **SYSTEM RESPONSE**

   NG  
   = No good. The message form is valid, but the request conflicts with the current status.

   PF  
   = Printout follows. Followed by the STP:DNUSCC output messages.

   RL  
   = Retry later. The request cannot be executed now due to unavailable system resources.

5. **REFERENCES**

   **Input Message(s):**
   
   DGN:DNUSCC  
   RMV:DNUSCC  
   RST:DNUSCC

   **Output Message(s):**
   
   STP:DNUSCC
Input Appendix(es):

APP : RANGES

MCC Display Page(s):

1510 (DNUS STATUS)
1. PURPOSE

Requests that maintenance actions be stopped on a digital networking unit - synchronous optical network (DNU-S) common data (DNUSCD).

2. FORMAT

STP: [a,]DNUSCD=b-c-d-e;

3. EXPLANATION OF MESSAGE

- **a** = Action to be stopped (default is the action currently executing on the DNUSCD). Valid value(s):
  - DGN = Diagnose.
  - RMV = Remove.
  - RST = Restore.

- **b** = Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

- **c** = DNU-S number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

- **d** = Data group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

- **e** = Common data number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

- **NG** = No good. The message form is valid, but the request conflicts with the current status.

- **PF** = Printout follows. Followed by the STP:DNUSCD output messages.

- **RL** = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

Input Message(s):

- DGN:DNUSCD
- RMV:DNUSCD
- RST:DNUSCD

Output Message(s):
STP: DNUSCD

Input Appendix(es):

APP: RANGES

MCC Display Page(s):

1510 (DNUS STATUS)
1. PURPOSE

Request that actions on a remote terminal (RT) embedded operations channel (EOC) circuit be stopped. This message is applicable for TR303 RTs (that is, AT&T Series 5 RTs running Feature Package 303G) terminating on a digital networking unit - synchronous optical network (DNU-S).

2. FORMAT

STP: [a,] DNUSEOC=b-c-d-e;

3. EXPLANATION OF MESSAGE

a = Action to be stopped (the default action is the action currently executing on the EOC). Valid values are:
   RMV = Remove.
   RST = Restore.

b = Switching module (SM) number. Refer to the APP: RANGES appendix in the Appendixes section of the Input Messages manual.

c = DNU-S number. Refer to the APP: RANGES appendix in the Appendixes section of the Input Messages manual.

d = RT number. Refer to the APP: RANGES appendix in the Appendixes section of the Input Messages manual.

e = EOC number. Refer to the APP: RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

NG = No good. The request has been denied. The message is valid but the request conflicts with current status.

PF = Printout follows. Followed by the STP:DNUSEOC output message.

RL = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

Input Message(s):

RMV:DNUSEOC
RST:DNUSEOC
Output Message(s):

STP : DNUSEOC

Input Appendix(es):

APP : RANGES

Other Manual(s):
235-105-110 System Maintenance Requirements and Tools
235-105-220 Corrective Maintenance

MCC Display Page(s):

1660,xxxx (DNUS REMOTE TERMINAL)
1. PURPOSE

Requests that actions on a remote terminal (RT) timeslot Management channel (TMC) circuit be stopped. This message is applicable for TR303 RTs (such as, AT&T Series 5 RTs running Feature Package 303G) terminating on a digital networking unit - synchronous optical network (DNU-S).

2. FORMAT

   STP: [a,]DNUSTMC=b-c-d-e;

3. EXPLANATION OF MESSAGE

   a = Action to be stopped (the default action is the action currently executing on the TMC). Valid values are:
      RMV = Remove.
      RST = Restore.

   b = Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

   c = DNU-S number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

   d = RT number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

   e = TMC number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

   NG = No good. The request has been denied. The message is valid but the request conflicts with current status.

   PF = Printout follows. Followed by the STP:DNUSTMC output message.

   RL = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

   Input Message(s):
      RMV:DNUSTMC
      RST:DNUSTMC
Output Message(s):

STP : DNUSTMC

Input Appendix(es):

APP : RANGES

Other Manual(s):

235-105-110  System Maintenance Requirements and Tools
235-105-220  Corrective Maintenance

MCC Display Page(s):

1660,xxxx (TR303 REMOTE TERMINAL)
STP:DS1

Software Release: 5E16(1) and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Requests that the currently executing maintenance action on a digital signal - level 1 (DS1) be stopped.

2. FORMAT

STP: [a,a]DS1=b-c-d-e-f-g-h;

3. EXPLANATION OF MESSAGE

a = Action being stopped (default is the currently executing action). Valid value(s):
   RMV = Remove.
   RST = Restore.

b = Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

c = Optical interface unit (OIU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

d = Protection group (PG) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

e = Optical carrier - level 3 (OC3) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

f = Synchronous transport signal - level 1 (STS1) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

g = Virtual tributary - level 1.5 (VT15) group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

h = VT15 member number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

NG = No good. The message form is valid, but the request conflicts with current status.

PF = Printout follows. Followed by the STP:DS1 output message.

RL = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES
Input Message(s):

ABT:DS1
RMV:DS1
RST:DS1

Output Message(s):

STP:DS1

Input Appendix(es):

APP: RANGES

Other Manual(s):
235-105-110 System Maintenance Requirements and Tools
235-105-220 Corrective Maintenance

MCC Display Page(s):
1492 OIU STS1 STATUS
STP:DS1SFAC

Software Release: 5E14 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE
Requests that maintenance actions be stopped on a digital networking unit - synchronous optical network (DNU-S) digital signal level 1 facility (DS1SFAC).

2. FORMAT
STP: [a,] DS1SFAC = b-c-d-e-f-g-h;

3. EXPLANATION OF MESSAGE
   a = Action to be stopped (default is the action currently executing on the DS1SFAC). Valid value(s):
      RMV = Remove.
      RST = Restore.

   b = Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

   c = Digital Networking Unit - SONET (DNU-S) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

   d = Data group (DG) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

   e = SONET Termination Equipment (STE) facility number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

   f = Synchronous Transport Signal (STS) facility number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

   g = Virtual tributary group (VTG) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

   h = Virtual tributary member (VTM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE
   NG = No good. The message form is valid, but the request conflicts with the current status.
   PF = Printout follows. Followed by the STP:DS1SFAC output messages.
   RL = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES
Input Message(s):
RMV:DS1SFAC
RST:DS1SFAC

Output Message(s):
STP:DS1SFAC

Input Appendix(es):
APP:RANGES

MCC Display Page(s):
1511 (DNUS STS MAINTENANCE)
STP:EAN

Software Release: 5E14 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE
Requests that actions on the equipment access network (EAN) at the specified location be stopped.

2. FORMAT
STP: [a,] EAN=b-c;

3. EXPLANATION OF MESSAGE
a = Action to be stopped (default is the action currently executing on the EAN). Valid value(s):
   DGN = Diagnose.
   EX  = Exercise.
   RMV = Remove.
   RST = Restore.

b = Switching module (SM) number. Refer to the APP: RANGES appendix in the Appendixes section of the Input Messages manual.

c = Unit number. Refer to the APP: RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE
NG = No good. The request has been denied. The message form is valid, but the request conflicts with current status.
PF = Printout follows. Followed by the STP:EAN output message.
RL = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES
Input Message(s):
   DGN:EAN
   EX:EAN
   RMV:EAN
   RST:EAN

Output Message(s):
   STP:EAN

Input Appendix(es):
STP:EC1STE

Software Release: 5E14 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Requests that maintenance actions be stopped on a digital networking unit - Electrical Carrier Level 1 SONET Termination equipment facility (EC1STE).

2. FORMAT

STP: [a,]EC1STE=b-c-d-e;

3. EXPLANATION OF MESSAGE

a = Action to be stopped (default is the action currently executing on the EC1STE). Valid value(s):
   RMV = Remove.
   RST = Restore.

b = Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

c = Digital Networking Unit - SONET (DNU-S) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

d = Data group (DG) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

e = SONET Termination Equipment (STE) facility number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

NG = No good. The message form is valid, but the request conflicts with the current status.

PF = Printout follows. Followed by the STP:EC1STE output message.

RL = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

Input Message(s):
   RMV:EC1STE
   RST:EC1STE

Output Message(s):
STP: EC1STE

Input Appendix(es):

APP: RANGES

MCC Display Page(s):

1510 (DNUS STATUS)
**STP:EX**

**Software Release:** 5E14 and later  
**Command Group:** SM  
**Application:** 5  
**Type:** Input

1. **PURPOSE**

Requests that the current exercise on the unit specified be stopped.

2. **FORMAT**

   STP:EX,a;

3. **EXPLANATION OF MESSAGE**

   a = Unit to be stopped. Valid value(s):

   - ALIT=b-c-d-e
   - ASC=b
   - BTSR=b
   - CDFI=b-l-c
   - CDI=b-c-d
   - CMP=m-c
   - DCLU=b-c-d
   - DCTUCOM=b-c
   - DCTUPORT=b-c-n
   - DFI=b-l-c
   - DFIH=b-l-c
   - DFTAC=b-c-d-n
   - DIST=b-c-d-e
   - DLI=b[&o]-p
   - EAN=b-c
   - FFC=c
   - GDSF=b-c
   - GDSUCOM=b-c-d
   - GDXACC=b-k-d
   - GDIX=b-c-d-e
   - GDXCON=b-k-d
   - GRID=b-k-c
   - GRIDBD=b-k-c-e
   - HDFI=b-l-c
   - IDCU=b-c-d
   - ISLUCC=b-c-q
   - ISLUCD=b-c-s
   - ISLUHLSC=b-c-d-t
   - ISLULBD=b-c-u-e
   - ISLULC=b-c-u-v
   - ISLULCKT=b-c-u-e-n
   - ISLULGC=b-c-w
   - ISLUMAN=b-c-d-x
   - ISLURG=b-c-d
   - ISTF=b-c
   - LDSF=b-c
   - LDSU=b-c-d
LDSUCOM=b-c-d
LI=p
LUCHAN=b-k-d-e-y
LUCOMC=b-k-d
LUHLSC=b-k-d-t
MA=b-c-d-e
MAB=b-c-d-e
MCTSI=b-c
MI=p
MICU=p
MMP=m-z
MSCU=m
MSUCOM=b-c-d
MTB=b-c-d-e-a¹
MTIB=c
MTIBAX=b-c-d-e
NC=p
NLI=b-c-p
PMU=b-c-n
PFC=c
PROTO=b-c-d
PSUCOM=b-c-d[-c¹]
PSUPH=b-c-b¹[-c¹]
QGP=m-d¹
QLPS=p-d¹
RAF=b-c
RAU=b
RCLK=b-c
RDFI=b-l-c
RLI=b-c
RRCLK=b-e¹-d
RVPT=b-c-d-n
SAS=b-c
SCAN=b-c-d-e
SDFI=b-k-c
SLIM=b-c-d-e
TAC=b-c-d
TEN=b-c-d-e-y
TMS=p
TTFCOM=b-c-d-e
TUCHBD=b-c-d-e
UCNF=b-c-d-e
UTD=b-c-d-e
UTG=b-c-d-e

b = Switching module number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

c = Unit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

d = Service group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
e  = Board number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

f  = COMDAC number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

g  = LC number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

h  = LP number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

i  = TSGRP number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

j  = Ring generator number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

k  = Line unit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

l  = Digital line and trunk unit (DLTU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

m  = Message switch side number.

n  = Circuit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

o  = Upper limit of a range of SM numbers. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

p  = Side of the ONTC that the unit is on. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

q  = Common controller number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

r  = Data group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

s  = Common data number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

t  = High level service circuit number. Refer to the APP:RANGES appendix in the Appendixes section of the Output Messages manual.

u  = Line group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

v  = Line card number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

w  = Line group controller number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

y = Channel number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

z = MMP logical identification number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

a¹ = Metallic access test bus number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

b¹ = Shelf number.

c¹ = Protocol handler number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

d¹ = QLPS network number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

e¹ = RISLU number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

f¹ = STSX-1 facility interface number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

IP = In progress. The stop has been initiated. A completion message will be printed for the original request if the stop completes successfully.

For CMP messages, if no completion message is printed, determine the current status of the original request using the OP:DMQ-CM-SM input message, and consider using the appropriate abort message as a final resort if the original request is still present.

NG = No good. The request has been denied because of a conflict with current status. May also include:
- CONFLICT WITH UNIT STATE
- SM DOES NOT EXIST = The requested SM does not exist in the system.
- SM UNEQUIPPED = The SM specified in the request is unequipped.
- NOT STARTED UNIT IN GROWTH STATE
- UNIT DOES NOT EXIST = The requested unit does not exist in the system.

For CMP messages, refer to the APP:CM-IM-REASON appendix in the Appendixes section of the Input Messages manual for a list of possible reasons for denying the request.

OK = Good. The action will be stopped.

PF = Printout follows. Followed by the corresponding output message.

RL = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES
Input Message(s):

ABT:CMP
ABT:ISTF
ABT:MSCU
ABT:MSGS
ABT:NLI
ABT:RAF
EX:ALIT
EX:ASC
EX:BTSR
EX:CDFI
EX:CDI
EX:CMP
EX:DCLU
EX:DCTUCOM
EX:DCTUPORT
EX:DFI
EX:DFIH
EX:DFTAC
EX:DIST
EX:DLI
EX:EAN
EX:FPC
EX:GDSF
EX:GDSUCOM
EX:GDXACC
EX:GDXC
EX:GDXCON
EX:GRID
EX:GRIDBD
EX:HDFI
EX:IDCU
EX:ISLUCC
EX:ISLUCD
EX:ISLUHLSC
EX:ISLULBD
EX:ISLULC
EX:ISLULCKT
EX:ISLULGC
EX:ISLUMAN
EX:ISLURG
EX:ISTF
EX:LDSF
EX:LDSU
EX:LDSUCOM
EX:LI
EX:LUCHAN
EX:LUHLCM
EX:LUHLSC
EX:MA
EX:MAB
EX:MCTSI
EX:MI
EX:MMP
Output Message(s):

EX: CMP
EX: DLI
EX: FPC
EX: LI
EX: MI
EX: MMP
EX: NLI
EX: PPC
EX: QGP
EX: QLPS
EX: TMS
OP: DMQ
OP: DMQ-CM-SM
OP: OOS
STP: FAC
STP: QLPS
STP: RAF
STP: RAU
STP: RCLK
STP: RDFI
STP: RLI
STP: RRCLK
STP: RVPT
STP: SAS
STP: SCAN
STP: SDFI
STP: SFI
STP: SLIM
STP: TAC
STP: TEN
STP: TMUX
STP: TTFCOM
STP: TUCHBD
STP: UCONF
STP: UTD
STP: UTG

Input Appendix(es):

APP: CM-IM-REASON
APP: RANGES

Other Manual(s):
235-105-110 System Maintenance Requirements and Tools
235-105-220 Corrective Maintenance
235-105-250 System Recovery Procedures

MCC Display Page(s):
1135/1145 MSU MA STATUS
1190 MCTSI
1200 DLI/NLI
1320,y,x AIU SUMMARY
1321,y,x AIU TSGRP SUMMARY
1322,y,x AIU RG STATUS
1323,y,z,x AIU AP STATUS
1510 DNUS STATUS
170x ISLU NETWORK
170xy ISLU LINE GROUP
171x ISLU-Z
186x IDCU CIRCUIT
RSM RCU
STP:EXC-ANY

**Software Release:** 5E14 and later
**Command Group:** SFTMGT
**Application:** 5,3B
**Type:** Input

1. **PURPOSE**

Requests that any process be stopped. The process can be killed either by specifying the ID number or the pathname.

2. **FORMAT**

```
STP:EXC,ANY,{PID=a|FN="b"},UCL;
```

3. **EXPLANATION OF MESSAGE**

- **a** = ID number of the process to be terminated.
  - **Note:** If a nonexistent process ID is used, the system prints a COMPLETED message.

- **b** = Pathname of the file.

4. **SYSTEM RESPONSE**

**PF** = Printout follows. Followed by an STP:EXC-ANY output message.

5. **REFERENCES**

**Input Message(s):**

```
OP:ST-PROC
STOP:EXC-ANY
STP:EXC-USER
```

**Output Message(s):**

```
OP:ST-PROC
```

**MCC Display Page(s):**

```
01 (CRAFT FM)
```
STP:EXC-UPD

Software Release: 5E14 and later
Command Group: SFTMGT
Application: 5
Type: Input

1. PURPOSE
Stops current execution of the software update (SU) installation process. This input message may be used to stop an SU installation that was started using the Master Control Center (MCC) 1960 page or the MCC 1940 page.

2. FORMAT
STP:EXC:UPD;

3. EXPLANATION OF MESSAGE
No variables.

4. SYSTEM RESPONSE
OK = The message was accepted and the action completed.

5. REFERENCES
Other Manual(s):
235-105-210 Routine Operations and Maintenance

MCC Display Page(s):
1940 (EASY BWM INSTALLATION)
1950 (PROGRAM UPDATE MAINTENANCE)
1960 (INSTALL BWM)
**STP:EXC-USER**

Software Release: 5E14 and later  
Command Group: SFTMGT  
Application: 5,3B  
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. **PURPOSE**

Requests that a user process specified either by ID number or by pathname be stopped.

**WARNING:** Use of this input message to stop a monitored process will prevent it from being restarted automatically. The INIT:ULARP input message can be used to restart ULARP and processes monitored by ULARP.

2. **FORMAT**

```
STP:EXC,USER,{PID=a|FN="b"}[,SIG=c];
```

3. **EXPLANATION OF MESSAGE**

- **a** = ID number of the process to be terminated.
- **b** = Pathname of the process to be terminated.
- **c** = Signals (default is 15 if PID is used and 9 if FN is used). Valid value(s):
  1. Hang up.
  2. Interrupt.
  3. Quit.
  4. Illegal instruction
     or
     = not reset when caught.
  5. Trace trap
     or
     = not reset when caught.
  6. IOT instruction.
  7. EMT instruction.
  8. Floating point exception.
  9. Kill
     or
     = cannot be caught or ignored.
  11. Segmentation violation.
  12. Bad argument to system call.
  13. Write on a pipe with no one to read it.
  15. Software termination signal.

4. **SYSTEM RESPONSE**
5. REFERENCES

Input Message(s):

INIT:ULARP  
OP:ST–PROC  
STP:EXC–ANY

Output Message(s):

OP:ST–PROC

MCC Display Page(s):

01 (CRAFT FM)
STP:FAC

Software Release: 5E14 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Requests that maintenance actions be stopped on a remote switching module (RSM) facility (FAC) or a trunk FAC.

An RSM FAC can be a host-remote facility between a host switching module (HSM) and an RSM, or a remote facility between two RSMs. A trunk FAC is an inter-office trunk.

2. FORMAT

STP: [a,]FAC=b-c-d-e;

3. EXPLANATION OF MESSAGE

a = Action to be stopped (default is the action currently executing on the FAC). Valid value(s):
   RMV = Remove.
   RST = Restore.
   TST = Test.

b = Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

c = Digital line and trunk unit (DLTU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

d = RSM digital facilities interface (RDFI), inter-RSM communication link digital facilities interface (CDFI), or inter-office trunk digital facilities interface (DFI) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

e = Facility (FAC) number. The FAC number is the T1 facility number on a RDFI, CDFI, or DFI. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

NG = No good. The message syntax is valid, but the request conflicts with current system or equipment status. May also include:
   - NOT STARTED UNIT IN GROWTH STATE
   - SM DOES NOT EXIST
   - SM UNEQUIPPED
   - UNIT DOES NOT EXIST

PF = Printout follows. Followed by the STP:FAC output message.

RL = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES
Input Message(s):

RMV:FAC
RST:FAC
TST:FAC

Output Message(s):

STP:FAC

Input Appendix(es):

APP: RANGES

Other Manual(s):
235-105-220 Corrective Maintenance
STP:FACR
Software Release: 5E14 and later
Command Group: FHADM
Application: 5
Type: Input

1. PURPOSE
Requests that a running feature activation counting and reconciliation (FACR) audit be terminated.

2. FORMAT
STP:FACR:[SUSPEND],[APPL=a];

3. EXPLANATION OF MESSAGE
SUSPEND = Request for a currently running FACR audit to be suspended and rescheduled for the next day.
APPL = Request refers to a FACR special application audit.
a = APPLICATION name of special audit to stop/suspend.

4. SYSTEM RESPONSE
PF = Printout follows. Followed by the STP:FACR output message.

5. REFERENCES
Output Message(s):
STP:FACR

Other Manual(s):
235-040-100 OA&M Planning Guide
235-100-125 System Description
STP:FPC

**Software Release:** 5E14 and later  
**Command Group:** CM  
**Application:** 5  
**Type:** Input

1. **PURPOSE**

Requests that actions on the specified foundation peripheral controller (FPC) be stopped.

Stop is differentiated from abort by the action of the request. A stop action is not immediate, but waits for a 'clean' point of termination (that is, the end of a phase), and will attempt to leave the hardware in a sane state. An abort action is immediate and the state of the hardware is not guaranteed.

2. **FORMAT**

STP:a,FPC=b;

3. **EXPLANATION OF MESSAGE**

<table>
<thead>
<tr>
<th>a</th>
<th>= Action to be stopped (default is any action currently waiting or executing on the FPC). Valid value(s):</th>
</tr>
</thead>
<tbody>
<tr>
<td>DGN</td>
<td>= Diagnose. (Not valid for CM3)</td>
</tr>
<tr>
<td>EX</td>
<td>= Exercise. (Not valid for CM3)</td>
</tr>
<tr>
<td>RST</td>
<td>= Restore.</td>
</tr>
</tbody>
</table>

b = FPC number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. **SYSTEM RESPONSE**

IP = In progress. The stop has been initiated. A completion message will be printed for the original request when the stop has completed.

NG = No good. The request has been denied. The message syntax is valid, but the request could not be processed. Refer to the APP:CM-IM-REASON appendix in the Appendixes section of the Input Messages manual for a list of possible reasons for denying the request.

5. **REFERENCES**

Input Message(s):

DGN:FPC  
EX:FPC  
OP:DMQ  
RST:FPC

Output Message(s):

DGN:FPC
1. PURPOSE
Requests that actions on the global digital services function (GDSF) circuit be stopped.

2. FORMAT
STP:\[a,\]GDSF=b-c;

3. EXPLANATION OF MESSAGE

a = Action to be stopped (default is the action currently executing on the GDSF). Valid value(s):
  DGN  = Diagnose.
  EX   = Exercise.
  RMV  = Remove.
  RST  = Restore.

b = Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

c = GDSF number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

NG  = No good. The request has been denied because of a conflict with current status.
PF  = Printout follows. Followed by the STP:GDSF output message.

5. REFERENCES

Input Message(s):

  DGN:GDSF
  EX:GDSF
  RMV:GDSF
  RST:GDSF

Output Message(s):

  STP:GDSF

Input Appendix(es):

  APP:RANGES
**1. PURPOSE**

Requests that actions on the global digital service unit common (GDSUCOM) board at the specified location be stopped.

**2. FORMAT**

\[\text{STP:}\{a,\}GDSUCOM=b-c-d;\]

**3. EXPLANATION OF MESSAGE**

\(a\) = Action to be stopped (default is the action currently executing on the GDSUCOM board). Valid value(s):

- DGN = Diagnose.
- EX = Exercise.
- RMV = Remove.
- RST = Restore.

\(b\) = Switching module number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

\(c\) = Global digital service unit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

\(d\) = Service group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

**4. SYSTEM RESPONSE**

NG = No good. The request has been denied because of a conflict with current status.

PF = Printout follows. Followed by the STP:GDSUCOM output message.

**5. REFERENCES**

Input Message(s):

- DGN:GDSUCOM
- EX:GDSUCOM
- RMV:GDSUCOM
- RST:GDSUCOM

Output Message(s):

- STP:GDSUCOM
Input Appendix(es):

APP : RANGES
STP:GDXACC

Software Release: 5E14 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Requests that actions be stopped on the gated diode crosspoint access (GDXACC) at the specified location.

2. FORMAT

STP: [a,] GDXACC=b-c-d;

3. EXPLANATION OF MESSAGE

a  = Action to be stopped (default is the action currently executing on the GDXACC). Valid value(s):
DGN  = Diagnose.
EX   = Exercise.
RMV  = Remove.
RST  = Restore.

b  = Switching module number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

c  = Line unit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

d  = Service group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

NG  = No good. The request has been denied because of a conflict with current status.
PF  = Printout follows. Followed by the STP:GDXACC output message.

5. REFERENCES

Input Message(s):
DGN:GDXACC
EX:GDXACC
RMV:GDXACC
RST:GDXACC

Output Message(s):
STP:GDXACC

Input Appendix(es):
STP:GDXC

Software Release: 5E14 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE
Requests that actions be stopped on the gated diode crosspoint compensator (GDXC) at the specified location.

2. FORMAT
STP: [a,]GDXC=b-c-d-e;

3. EXPLANATION OF MESSAGE
a = Action to be stopped (default is the action currently executing on the GDXC). Valid value(s):
   DGN = Diagnose.
   EX = Exercise.
   RMV = Remove.
   RST = Restore.

b = Switching module number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

c = Metallic service unit (MSU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

d = Service group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

e = MSU board number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE
NG = No good. The request has been denied because of a conflict with current status.
PF = Printout follows. Followed by the STP:GDXC output message.

5. REFERENCES
Input Message(s):
   DGN:GDXC
   EX:GDXC
   RMV:GDXC
   RST:GDXC

Output Message(s):
STP: GDXC

Input Appendix(es):

APP: RANGES
STP:GDXCON

Software Release: 5E14 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Requests that actions be stopped on the gated diode crosspoint control (GDXCON) at the specified location.

2. FORMAT

STP:[a,]GDXCON=b-c-d;

3. EXPLANATION OF MESSAGE

   a = Action to be stopped (default is the action currently executing on the GDXCON). Valid value(s):
   DGN = Diagnose.
   EX = Exercise.
   RMV = Remove.
   RST = Restore.

   b = Switching module number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

   c = Line unit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

   d = Service group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

   NG = No good. The request has been denied because of a conflict with current status.

   PF = Printout follows. Followed by the STP:GDXCON output message.

5. REFERENCES

Input Message(s):
- DGN:GDXCON
- EX:GDXCON
- RMV:GDXCON
- RST:GDXCON

Output Message(s):
- STP:GDXCON

Input Appendix(es):
APP: RANGES
STP:GEN

Software Release: 5E14 and later
Command Group: SFTMGT
Application: 5,3B
Type: Input

1. PURPOSE

Requests that the administrative module (AM) system-update message in progress be stopped. Terminates the process associated with a previous UPD:GEN input message.

2. FORMAT

   STP:GEN[:UCL];

3. EXPLANATION OF MESSAGE

   UCL = Execute unconditionally. If the process cannot be terminated using termination or kill signals, it will be terminated by a more extreme method. In this case, some system resources in use by the process may not be released automatically.

4. SYSTEM RESPONSE

   NG = No good. Process not initiated.
   PF = Printout follows. Followed by STP:GEN output message.

5. REFERENCES

   Input Message(s):

   STOP:GEN
   UPD:G-BACKOUT
   UPD:G-COMMIT
   UPD:G-ENTER
   UPD:G-PROCEED
   UPD:G-RESTORE

   Output Message(s):

   UPD:GEN-BACKOUT
   UPD:GEN-COMMIT
   UPD:GEN-ENTER
   UPD:GEN-PROCEED
   UPD:GEN-RESTORE
STP:GRC

Software Release: 5E14 and later
Command Group: RCV
Application: 5
Type: Input

1. PURPOSE

Requests that the execution of the current global recent change (GRC) job be suspended. This input message stops the processing GRC job gracefully. The EXC:GRC input message continues job execution.

2. FORMAT

STP:GRC;

3. EXPLANATION OF MESSAGE

No variables.

4. SYSTEM RESPONSE

PF = Printout follows. Followed by the GRC:STATUS output message indicating that the job was successfully halted.

NG = No good. The request was denied. A GRC:ERROR output message will provide the reason for the failure.

5. REFERENCES

Input Message(s):

STP:GRC
CLR:GRC
EXC:GRC
SCHED:GRC

Output Message(s):

GRC:ERROR
REPT:GRC
GRC:STATUS

Other Manual(s):

Where 'x' is the release-specific version of the document.
235-070-100 Administration and Engineering Guidelines
235-118-251 Recent Change Procedures
235-118-25x Recent Change Reference
1. PURPOSE

Requests that actions stop on the gated diode crosspoint (GDX) grid at the specified location.

2. FORMAT

STP:[a,]GRID=b-c-d;

3. EXPLANATION OF MESSAGE

a = Action to be stopped (default is the action currently executing on the GDX grid). Valid value(s):
   DGN = Diagnose.
   EX  = Exercise.
   RMV = Remove.
   RST = Restore.
   TST = Test.

b = Switching module number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

c = Line unit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

d = Grid number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

NG = No good. The request has been denied because of a conflict with current status.

PF = Printout follows. Followed by the STP:GRID output message.

5. REFERENCES

Input Message(s):

DGN:GRID
EX:GRID
RMV:GRID
RST:GRID
TST:GRID

Output Message(s):

STP:GRID
Input Appendix(es):

APP : RANGES
**STP:GRIDBD**

**Software Release:** 5E14 and later  
**Command Group:** SM  
**Application:** 5  
**Type:** Input

1. **PURPOSE**

Requests that currently running actions on a line unit model 2; (LU2) or line unit model 3; (LU3) grid board be stopped.

2. **FORMAT**

```plaintext
STP: [a,b,c,d,e];
```

3. **EXPLANATION OF MESSAGE**

   **a** = Action to be stopped (default is the action currently executing on the GRIDBD). Valid value(s):
   - DGN  = Diagnose.
   - EX  = Exercise.
   - RMV  = Remove.
   - RST  = Restore.
   - TST  = Test.

   **b** = Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

   **c** = Line unit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

   **d** = Grid number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

   **e** = Board number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. **SYSTEM RESPONSE**

   **NG** = No good. The request has been denied. The message form is valid, but the request conflicts with current status.

   **PF** = Printout follows. Followed by the STP:GRIDBD output message.

   **RL** = Retry later. The request cannot be executed now due to unavailable system resources.

5. **REFERENCES**

   Input Message(s):
   - DGN:GRIDBD
   - EX:GRIDBD
   - RMV:GRIDBD
RST:GRIDBD
TST:GRIDBD

Output Message(s):
STP:GRIDBD

Input Appendix(es):
APP:RANGES
STP:HDFI

Software Release: 5E14 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Requests that maintenance actions on the host switching module (HSM) digital facilities interface (HDFI) circuit be stopped.

2. FORMAT

STP: [a,]HDFI=b-c-d;

3. EXPLANATION OF MESSAGE

a = Action to be stopped (default is the action currently executing on the HDFI). Valid value(s):
  DGN = Diagnose.
  EX = Exercise.
  RMV = Remove.
  RST = Restore.

b = Switching module number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

c = Digital line and trunk unit (DLTU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

d = HDFI number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

Note: If the action being stopped is a conditional removal of an HDFI, there is a corresponding conditional removal of the T1 facility (T1FAC) in the remote switching module (RSM) being processed. Manually stop the T1FAC action in the RSM if desired.

4. SYSTEM RESPONSE

NG = No good. Request denied because of a conflict with current status.

PF = Printout follows. Followed by the STP:HDFI output message.

5. REFERENCES

Input Message(s):

  DGN:HDFI
  EX:HDFI
  RMV:HDFI
  RST:HDFI

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STP:FAC

Output Message(s):

STP:HDFI

Input Appendix(es):

APP: RANGES
**STP:IDCU**

**Software Release:** 5E14 and later  
**Command Group:** SM  
**Application:** 5  
**Type:** Input

1. **PURPOSE**

Requests that actions on an integrated digital carrier unit (IDCU) service group circuit be stopped.

2. **FORMAT**

   \[ \text{STP}: [a,] \text{IDCU}=b-c-d; \]

3. **EXPLANATION OF MESSAGE**

   - **a** = Action to be stopped (the default action is the action currently executing on the IDCU). Valid value(s):
     - **DGN** = Diagnose.
     - **EX** = Exercise.
     - **RMV** = Remove.
     - **RST** = Restore.

   - **b** = Switching module (SM) number.

   - **c** = IDCU number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

   - **d** = IDCU service group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. **SYSTEM RESPONSE**

   - **PF** = Printout follows. An STP:IDCU output message will follow.

   - **NG** = No good. The request has been denied. The message is valid but the request conflicts with current status.

   - **RL** = Retry later. The request cannot be executed now due to unavailable system resources.

5. **REFERENCES**

   Input Message(s):

   - **DGN:IDCU**
   - **EX:IDCU**
   - **OP:DMQ**
   - **OP:OOS**
   - **RMV:IDCU**
   - **RST:IDCU**
Output Message(s):

STP : IDCU

Input Appendix(es):

APP : RANGES

Other Manual(s):

235-105-110 System Maintenance Requirements and Tools
235-105-220 Corrective Maintenance

MCC Display Page(s):

186x (IDCU CIRCUIT)
STP:IDCUELI

Software Release: 5E14 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Requests that actions on an integrated digital carrier unit (IDCU) electrical line interface (ELI) circuit be stopped.

Note: The use of this input message during an ELI removal may require manual restorations of individual IDCU facilities (IFACs) associated with the ELI.

2. FORMAT

STP: [a,]IDCUELI=b-c-d;

3. EXPLANATION OF MESSAGE

a  = Action to be stopped (the default action is the action currently executing on the IDCU ELI). Valid value(s):
   RMV   = Remove.
   RST   = Restore.

b  = Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

c  = IDCU number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

d  = ELI number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

NG  = No good. The request has been denied. The message is valid but the request conflicts with current status.

PF  = Printout follows. Followed by the STP:IDCUELI output message.

RL  = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

Input Message(s):

   OP: OOS
   RMV: IDCUELI
   RST: IDCUELI

Output Message(s):
STP:IDCUEOC

Software Release: 5E14 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Request that actions on a remote terminal (RT) embedded operations channel (EOC) circuit be stopped. This message is applicable for TR303 RTs (that is, AT&T Series 5 RTs running Feature Package 303G) terminating on an integrated digital carrier unit (IDCU).

2. FORMAT

STP: [a,] IDCUEOC=b-c-d-e;

3. EXPLANATION OF MESSAGE

a = Action to be stopped (the default action is the action currently executing on the EOC). Valid values are:
   RMV = Remove.
   RST = Restore.

b = Switching module (SM) number. Refer to the APP: RANGES appendix in the Appendixes section of the Input Messages manual.

c = IDCU number. Refer to the APP: RANGES appendix in the Appendixes section of the Input Messages manual.

d = RT number. Refer to the APP: RANGES appendix in the Appendixes section of the Input Messages manual.

e = EOC number. Refer to the APP: RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

NG = No good. The request has been denied. The message is valid but the request conflicts with current status.

PF = Printout follows. Followed by the STP:IDCUEOC output message.

RL = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

Input Message(s):

   RMV: IDCUEOC
   RST: IDCUEOC
Output Message(s):

STP : IDCUEOC

Input Appendix(es):

APP : RANGES

Other Manual(s):

235-105-110  System Maintenance Requirements and Tools
235-105-220  Corrective Maintenance

MCC Display Page(s):

1880,x.yy (IDCU REMOTE TERMINAL)
1. PURPOSE
Requests that actions on an integrated digital carrier unit (IDCU) peripheral interface data bus (PIDB) or direct PIDB (DPIDB) pair (both IDCU service groups) be stopped.

2. FORMAT
STP:[a,]IDCUPIDB=b-c-d;

3. EXPLANATION OF MESSAGE
a = Action to be stopped (the default action is the action currently executing on the IDCU PIDB or DPIDB). Valid value(s):
   RMV = Remove.
   RST = Restore.

b = Switching module (SM) number. Refer to the APP: RANGES appendix in the Appendixes section of the Input Messages manual.

c = IDCU number. Refer to the APP: RANGES appendix in the Appendixes section of the Input Messages manual.

d = PIDB or DPIDB number. Refer to the APP: RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE
NG = No good. The request has been denied. The message is valid but the request conflicts with current status.

PF = Printout follows. Followed by the STP: IDCUPIDB output message.

RL = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES
Input Message(s):
   OP:OOS
   RMV:IDCUPIDB
   RST:IDCUPIDB

Output Message(s):
   STP:IDCUPIDB
Input Appendix(es):

APP : RANGES

Other Manual(s):
235-105-110  System Maintenance Requirements and Tools
235-105-220  Corrective Maintenance
235-105-331  Hardware Change Procedures
STP:IDCUTMC

Software Release: 5E14 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE
Requests that actions on a remote terminal (RT) timeslot Management channel (TMC) circuit be stopped. This message is applicable for TR303 RTs (such as, AT&T Series 5 RTs running Feature Package 303G) terminating on an integrated digital carrier unit (IDCU).

2. FORMAT

STP:[a,]IDCUTMC=b-c-d-e;

3. EXPLANATION OF MESSAGE

a = Action to be stopped (the default action is the action currently executing on the TMC). Valid values are:
RMV = Remove.
RST = Restore.

b = Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

c = IDCU number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

d = RT number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

e = TMC number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

NG = No good. The request has been denied. The message is valid but the request conflicts with current status.

PF = Printout follows. Followed by the STP:IDCUTMC output message.

RL = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

Input Message(s):

RMV:IDCUTMC
RST:IDCUTMC
Output Message(s):

STP : IDCUTMC

Input Appendix(es):

APP : RANGES

Other Manual(s):
235-105-110 System Maintenance Requirements and Tools
235-105-220 Corrective Maintenance

MCC Display Page(s):

1880,x,yy (IDCU REMOTE TERMINAL)
STP:IFAC

Software Release: 5E14 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Requests that action on an integrated digital carrier unit (IDCU) digital signal level one (DS1) facility (IFAC) circuit be stopped.

2. FORMAT

STP: [a,]IFAC=b-c-d;

3. EXPLANATION OF MESSAGE

a = Action to be stopped (the default action is the action currently executing on the IFAC). Valid value(s):
   RMV = Remove.
   RST = Restore.

b = Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

c = IDCU number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

d = IFAC number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

NG = No good. The request has been denied. The message is valid but the request conflicts with current status.

PF = Printout follows. Followed by the STP:IFAC output message.

RL = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

Input Message(s):

   OP:OOS
   RMV:IFAC
   RST:IFAC

Output Message(s):

   STP:IFAC
Input Appendix(es):

APP : RANGES

Other Manual(s):
235-105-110  System Maintenance Requirements and Tools
235-105-220  Corrective Maintenance

MCC Display Page(s):

187x (IDCU FACILITY)
188xyy (IDCU REMOTE TERMINAL)
STP:IPCFG

Software Release: 5E16(2) and later
Command Group: TRKLN
Application: 5
Type: Input

1. PURPOSE

Requests that the processing and output of the IP address and subnet mask information request, OP:IPCFG, be stopped. This request stops the output of segment blocks of an OP:IPCFG input message that have not yet been queued for printing and any further data collection and processing. This request does not stop the output of segment blocks already queued for printing at the time that this stop request is processed.

2. FORMAT

STP:IPCFG;

3. EXPLANATION OF MESSAGE

No variables.

4. SYSTEM RESPONSE

PF = Printout follows. The request has been accepted and the task is in the process of being stopped. The output message STP:IPCFG from the stopped task follows, or the output message STP:IPCFG as a general, non-specific task output message follows.

5. REFERENCES

Input Message(s):

OP:IPCFG

Output Message(s):

OP:IPCFG
STP:IPCFG
**STP:ISLUCC**

*Software Release:* 5E14 and later  
*Command Group:* SM  
*Application:* 5  
*Type:* Input

1. **PURPOSE**

Requests the actions be stopped on an integrated services line unit common controller (ISLUCC).

2. **FORMAT**

```
STP: [a,] ISLUCC=b-c-d;
```

3. **EXPLANATION OF MESSAGE**

   a  
   = Action to be stopped (default is the action currently executing on the ISLUCC). Valid value(s): 
   DGN  = Diagnose.  
   EX   = Exercise.  
   RMV  = Remove.  
   RST  = Restore.  

   b  
   = Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

   c  
   = Integrated services line unit (ISLU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

   d  
   = Common controller number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. **SYSTEM RESPONSE**

   NG  
   = No good. The message form is valid, but the request conflicts with the current status.

   PF  
   = Printout follows. Followed by the STP:ISLUCC output message.

5. **REFERENCES**

**Input Message(s):**

- DGN:ISLUCC  
- EX:ISLUCC  
- OP:DMQ  
- OP:OOS  
- RMV:ISLUCC  
- RST:ISLUCC

**Output Message(s):**

- STP:ISLUCC
Input Appendix(es):

APP : RANGES

MCC Display Page(s):

170x (ISLU NETWORK)
170xy (ISLU LINE GROUP)
STP:ISLUCD

Software Release: 5E14 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Requests the actions be stopped on an integrated services line unit common data (ISLUCD).

2. FORMAT

STP: [a,]ISLUCD=b-c-d;

3. EXPLANATION OF MESSAGE

a = Action to be stopped (default is the action currently executing on the ISLUCD). Valid value(s):
   DGN = Diagnose.
   EX  = Exercise.
   RMV = Remove.
   RST = Restore.

b = Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

c = Integrated services line unit (ISLU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

d = Common data number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

NG = No good. The message form is valid, but the request conflicts with the current status.

PF = Printout follows. Followed by the STP:ISLUCD output message.

5. REFERENCES

Input Message(s):
   DGN:ISLUCD
   EX:ISLUCD
   OP:DMQ
   OP:OOS
   RMV:ISLUCD
   RST:ISLUCD

Output Message(s):
   STP:ISLUCD
Input Appendix(es):

APP : RANGES

MCC Display Page(s):

170x (ISLU NETWORK)
170xy (ISLU LINE GROUP)
STP:ISLUHLSC

Software Release: 5E14 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Requests that the specified action on the integrated services line unit high level service circuit (ISLUHLSC) be stopped. The circuit will be placed in the out of service (OOS) state upon completion.

2. FORMAT

STP: [a,]ISLUHLSC=b-c-d-e;

3. EXPLANATION OF MESSAGE

a = Action to be stopped:
  DGN  = Diagnose.
  EX   = Exercise.
  RMV  = Remove.
  RST  = Restore.

Note: The default is the action currently executing in the ISLUHLSC.

b = Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

c = ISLU number. Refer to the APP:RANGES appendix in the Appendixes section of the Output Messages manual.

d = ISLU service group. Refer to the APP:RANGES appendix in the Appendixes section of the Output Messages manual.

e = High level service circuit. Refer to the APP:RANGES appendix in the Appendixes section of the Output Messages manual.

4. SYSTEM RESPONSE

NG  = No good. The request has been denied. The message is valid but the request conflicts with the current status.

PF  = Printout follows. Followed by the STP:ISLUHLSC output message.

RL  = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

Input Message(s):

DGN:ISLUHLSC
EX: ISLUHLSC
RMV: ISLUHLSC
RST: ISLUHLSC

Output Message(s):
STP: ISLUHLSC

Input Appendix(es):
APP: RANGES

MCC Display Page(s):
170x (ISLU NETWORK)
171x (ISLU-Z)
STP:ISLULBD

Software Release: 5E14 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE
Requests the actions be stopped on an integrated services line unit line board (ISLULBD).

2. FORMAT

STP:[a,]ISLULBD=b-c-d-e;

3. EXPLANATION OF MESSAGE

a = Action to be stopped (default is the action currently executing on the ISLULBD). Valid value(s): 
   DGN = Diagnose.
   EX = Exercise.
   RMV = Remove.
   RST = Restore.

b = Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

c = Integrated services line unit (ISLU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

d = Line group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

e = Line board number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

NG = No good. The message form is valid, but the request conflicts with the current status.
PF = Printout follows. Followed by the STP:ISLULBD output message.

5. REFERENCES

Input Message(s):
   DGN:ISLULBD
   EX:ISLULBD
   RMV:ISLULBD
   RST:ISLULBD

Output Message(s):
STP: ISLULBD

Input Appendix(es):

APP: RANGES
1. PURPOSE
Requests the actions be stopped on an integrated services line unit line card (ISLULC).

2. FORMAT
STP:[a,]ISLULC=b-c-d-e;

3. EXPLANATION OF MESSAGE
a = Action to be stopped (default is the action currently executing on the ISLULC). Valid value(s):
   DGN = Diagnose.
   EX = Exercise.
   RMV = Remove.
   RST = Restore.

b = Switching module (SM) number. Refer to the APP: RANGES appendix in the Appendixes section of the Input Messages manual.

c = Integrated services line unit (ISLU) number. Refer to the APP: RANGES appendix in the Appendixes section of the Input Messages manual.

d = Line group controller number. Refer to the APP: RANGES appendix in the Appendixes section of the Input Messages manual.

e = Line card number. Refer to the APP: RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE
NG = No good. The message form is valid, but the request conflicts with the current status.

PF = Printout follows. Followed by the STP:ISLULC output message.

5. REFERENCES
Input Message(s):
   DGN:ISLULC
   EX:ISLULC
   OP:DMQ
   OP:OOS
   RMV:ISLULC
   RST:ISLULC
Output Message(s):

STP: ISLULC

Input Appendix(es):

APP: RANGES

MCC Display Page(s):

170x (ISLU NETWORK)
170xy (ISLU LINE GROUP)
STP:ISLULCKT

Software Release: 5E14 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Requests the actions be stopped on an integrated services line unit line circuit (ISLULCKT).

2. FORMAT

STP:[a,]ISLULCKT=b-c-d-e-f;

3. EXPLANATION OF MESSAGE

a  = Action to be stopped (default is the action currently executing on the ISLULCKT). Valid value(s):
   DGN  = Diagnose.
   EX   = Exercise.
   RMV  = Remove.
   RST  = Restore.

b  = Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

c  = Integrated services line unit (ISLU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

d  = Line group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

e  = Line board number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

f  = Line circuit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

NG  = No good. The message form is valid, but the request conflicts with the current status.

PF  = Printout follows. Followed by the STP:ISLULCKT output message.

5. REFERENCES

Input Message(s):

DGN:ISLULCKT
EX:ISLULCKT
RMV:ISLULCKT
RST:ISLULCKT
Output Message(s):

STP: ISLULCKT

Input Appendix(es):

APP: RANGES
**STP:ISLULG**

**Software Release:** 5E14 and later  
**Command Group:** SM  
**Application:** 5  
**Type:** Input

1. **PURPOSE**

Requests the actions be stopped on an integrated services line unit line group (ISLULG).

2. **FORMAT**

STP: [a,b,c,d];

3. **EXPLANATION OF MESSAGE**

   a = Action to be stopped (default is the action currently executing on the ISLULG). Valid value(s):  
      DGN = Diagnose.  
      RMV = Remove.  
      RST = Restore.

   b = Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

   c = Integrated services line unit (ISLU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

   d = Line group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. **SYSTEM RESPONSE**

   NG = No good. The message form is valid, but the request conflicts with the current status.

   PF = Printout follows. Followed by the STP:ISLULG output message.

5. **REFERENCES**

   Input Message(s):
   - DGN:ISLULG
   - RMV:ISLULG
   - RST:ISLULG

   Output Message(s):
   - STP:ISLULG

   Input Appendix(es):
   - APP:RANGES
STP:ISLULGC

**Software Release:** 5E14 and later
**Command Group:** SM
**Application:** 5
**Type:** Input

1. **PURPOSE**

Requests the actions be stopped on an integrated services line unit line group controller (ISLULGC).

2. **FORMAT**

   \[
   \text{STP:} [a,] \text{ISLULGC}=b-c-d; 
   \]

3. **EXPLANATION OF MESSAGE**

   a  = Action to be stopped (default is the action currently executing on the ISLULGC). Valid value(s):
      
      *DGN*  = Diagnose.
      *EX*   = Exercise.
      *RMV*  = Remove.
      *RST*  = Restore.

   b  = Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

   c  = Integrated services line unit (ISLU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

   d  = Line group controller number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. **SYSTEM RESPONSE**

   *NG*  = No good. The message form is valid, but the request conflicts with the current status.
   
   *PF*  = Printout follows. Followed by the STP:ISLULGC output message.

5. **REFERENCES**

   **Input Message(s):**
   
   *DGN:ISLULGC*
   *EX:ISLULGC*
   *OP:DMQ*
   *OP:OOS*
   *RMV:ISLULGC*
   *RST:ISLULGC*

   **Output Message(s):**
   
   *STP:ISLULGC*
Input Appendix(es):

APP : RANGES

MCC Display Page(s):

170x (ISLU NETWORK)
170xy (ISLU LINE GROUP)
STP:ISLUMAN

Software Release: 5E14 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Requests that specified action on the integrated services line unit metallic access network (ISLUMAN) be stopped. Circuit will remain out of service (OOS) at completion.

2. FORMAT

STP: [a,] ISLUMAN=b-c-d-e;

3. EXPLANATION OF MESSAGE

a = Action to be stopped. Valid value(s):
  DGN = Diagnose.
  EX  = Exercise.
  RMV = Remove.
  RST = Restore.

Note: The default is the action currently executing on the ISLUMAN.

b = Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

c = ISLU number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

d = ISLU service group. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.


4. SYSTEM RESPONSE

NG = No good. The request has been denied. The message is valid but the request conflicts with the current status.

PF = Printout follows. Followed by the STP:ISLUMAN output message.

RL = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

Input Message(s):

DGN: ISLUMAN
EX: ISLUMAN
RMV: ISLUMAN
RST: ISLUMAN

Output Message(s):

STP: ISLUMAN

Input Appendix(es):

APP: RANGES

MCC Display Page(s):

170x (ISLU NETWORK)
171x (ISLU-Z)
STP:ISLUPIDB
Software Release: 5E14 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE
Requests that removes and restores on an integrated services line unit (ISLU) peripheral interface data bus (PIDB) pair (both service groups) be stopped.

Note: This message should only be used when it is necessary to stop the remove phase of an ISLUPIDB degrowth procedure or the restore phase of an ISLUPIDB growth procedure.

2. FORMAT
STP: [a,]ISLUPIDB=b-c-d;

3. EXPLANATION OF MESSAGE

   a = Action to be stopped. Valid value(s):
      RMV = Remove.
      RST = Restore.

      Note: The default is the action currently executing on the ISLU.

   b = Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

   c = ISLU number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

   d = PIDB pair number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

   NG = No good. The message form is valid, but the request conflicts with the current status.

   PF = Printout follows. Followed by the STP:ISLUPIDB output message.

5. REFERENCES

Input Message(s):

   OP:OOS
   RMV:ISLUPIDB
   RST:ISLUPIDB

Input Appendix(es):
STP:ISLURG

Software Release: 5E14 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Requests that the specified action on the integrated services line unit ringing generator (ISLURG) be stopped. The circuit will be placed in the out of service (OOS) state upon completion.

2. FORMAT

STP: [a,] ISLURG = b - c - d;

3. EXPLANATION OF MESSAGE

a = Action to be stopped. Valid value(s):
   DGN = Diagnose.
   EX = Exercise.
   RMV = Remove.
   RST = Restore.

Note: The default is the action currently executing on the ISLURG.

b = Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

c = ISLU number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

d = ISLU service group RG. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

NG = No good. The request has been denied. The message is valid but the request conflicts with the current status.

PF = Printout follows. Followed by an STP:ISLURG output message.

RL = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

Input Message(s):

   DGN:ISLURG
   EX:ISLURG
   RMV:ISLURG
   RST:ISLURG
Output Message(s):

STP: ISLURG

Input Appendix(es):

APP: RANGES

MCC Display Page(s):

170x (ISLU NETWORK)
171x (ISLU-Z)
STP:ISMNAIL

Software Release: 5E14 and later
Command Group: TRKLN
Application: 5
Type: Input

1. PURPOSE

Stops the output of the inter-SM (switching module) nailup (ISMNAIL) list or off-normal request, gracefully. The ISMNAIL list request is printed when an OP:LIST-ISMNAIL input message is processed and the ISMNAIL off-normal request is printed when an OP:OFFNORM-IS input message is processed.

2. FORMAT

STP:ISMNAIL;

3. EXPLANATION OF MESSAGE

No variables.

4. SYSTEM RESPONSE

PF = Printout follows. The request has been accepted. Either the list or off-normal request will be stopped with an indication stating such, or an STP:ISMNAIL output message will print detailing why the list or off-normal request was not stopped.

5. REFERENCES

Input Message(s):

OP:LIST-ISMNAIL
OP:OFFNORM-IS

Output Message(s):

OP:LIST-ISMNAIL
OP:OFFNORM-IS
STP:ISMNAIL
STP:ISTF

Software Release: 5E14 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE
Requests that the specified actions on the integrated services test function (ISTF) unit be stopped.

2. FORMAT
STP:[a,]ISTF=b-c;

3. EXPLANATION OF MESSAGE

a = Action to be stopped. Valid value(s):
DGN = Diagnose.
EX = Exercise.
RMV = Remove.
RST = Restore.

Note: The default is the action currently executing on the ISTF.

b = Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

c = ISTF unit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

NG = No good. The request has been denied because it conflicts with current equipment status. May also include:
- SM DOES NOT EXIST = The requested SM does not exist in the system.
- SM UNEQUIPPED = The SM specified in the request is unequipped.
- UNIT DOES NOT EXIST = The requested unit does not exist in the system.

PF = Printout follows. The request has been accepted. Followed by an STP:ISTF output message.

RL = Retry later. The request cannot be executed now due to unavailable system resources. The message may be entered again later.

5. REFERENCES

Input Message(s):
ABT:ISTF
DGN:ISTF
EX:ISTF
RMV: ISTF
RST: ISTF

Output Message(s):
STP: ISTF

Input Appendix(es):
APP: RANGES
STP:IWGFAC

Software Release: 5E15 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Requests the actions be stopped on an inter-working gateway facility (IWGFAC).

2. FORMAT

STP:IWGFAC=a-b-c;

3. EXPLANATION OF MESSAGE

a = Switch module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

b = Inter-working gateway (IWG) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

c = Inter-working gateway facility (IWGFAC) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

NG = No good. The message form is valid, but the request conflicts with the current status.

PF = Printout follows. Followed by the STP:IWGFAC output message.

RL = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

Input Message(s):

RST:IWGFAC
RMV:IWGFAC

Output Message(s):

STP:IWGFAC

Input Appendix(es):

APP:RANGES

MCC Display Page(s):
1340.y (IWG)

Other Manual(s):
235-105-110  System Maintenance Requirements and Tools
235-105-220  Corrective Maintenance
1. PURPOSE

Requests the actions be stopped on an inter-working gateway link interface (IWGLI).

2. FORMAT

STP:IWGLI=a-b-c-d;

3. EXPLANATION OF MESSAGE

a = Switch module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

b = Inter-working gateway (IWG) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

c = Data group (DG) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

d = Inter-working gateway link interface (IWGLI) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

NG = No good. The message form is valid, but the request conflicts with the current status.

PF = Printout follows. Followed by the STP:IWGLI output message.

RL = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

Input Message(s):

DGN:IWGLI

Output Message(s):

STP:IWGLI

Input Appendix(es):

APP: RANGES
MCC Display Page(s):

1340,y (IWG)

Other Manual(s):
235-105-110  System Maintenance Requirements and Tools
235-105-220  Corrective Maintenance
STP:IWUFAC

**Software Release:** 5E16(1) and later
**Command Group:** SM
**Application:** 5
**Type:** Input

1. **PURPOSE**
   Requests the actions be stopped on an inter-working unit facility (IWUFAC).

2. **FORMAT**

   \[ \text{STP:IWUFAC}=a-b-c; \]

3. **EXPLANATION OF MESSAGE**

   - **a** = Switch module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
   - **b** = Inter-working unit (IWU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
   - **c** = Inter-working unit facility (IWUFAC) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. **SYSTEM RESPONSE**

   - **NG** = No good. The message form is valid, but the request conflicts with the current status.
   - **PF** = Printout follows. Followed by the STP:IWUFAC output message.
   - **RL** = Retry later. The request cannot be executed now due to unavailable system resources.

5. **REFERENCES**

   **Input Message(s):**
   
   - RST:IWUFAC
   - RMV:IWUFAC

   **Output Message(s):**
   
   - STP:IWUFAC

   **Input Appendix(es):**
   
   - APP:RANGES

   **MCC Display Page(s):**
1340.y (IWU)

Other Manual(s):
235-105-110  System Maintenance Requirements and Tools
235-105-220  Corrective Maintenance
1. PURPOSE
Requests that actions on the local digital service function (LDSF) circuit be stopped.

2. FORMAT
STP: [a,] LDSF=b-c;

3. EXPLANATION OF MESSAGE
   a = Action to be stopped (default is the action currently executing on the LDSF). Valid value(s):
       DGN = Diagnose.
       EX = Exercise.
       RMV = Remove.
       RST = Restore.
   
   b = Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
   
   c = LDSF number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE
   NG = No good. The request has been denied because of a conflict with current status.
   PF = Printout follows. Followed by the STP:LDSF output message.

5. REFERENCES
Input Message(s):
   DGN:LDSF
   EX:LDSF
   RMV:LDSF
   RST:LDSF

Output Message(s):
   STP:LDSF

Input Appendix(es):
   APP:RANGES
STP:LDSU

Software Release: 5E14 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Requests that actions on the local digital service unit - model 2 (LDSU2) board be stopped.

2. FORMAT

STP: [a,]LDSU=b-c-d;

3. EXPLANATION OF MESSAGE

a = Action to be stopped (default is the action currently executing on the LDSU2). Valid value(s):
   DGN = Diagnose.
   EX  = Exercise.
   RMV = Remove.
   RST = Restore.

b = Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

c = Local digital service unit (DSU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

d = Service group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

NG = No good. The request has been denied because of a conflict with current status.

PF = Printout follows. Followed by the STP:LDSU output message.

5. REFERENCES

Input Message(s):
   DGN:LDSU
   EX:LDSU
   RMV:LDSU
   RST:LDSU

Output Message(s):
   STP:LDSU

Input Appendix(es):
**STP:LDSUCOM**

**Software Release:** 5E14 and later  
**Command Group:** SM  
**Application:** 5  
**Type:** Input

1. **PURPOSE**

Requests that actions on the local digital service unit common board (LDSUCOM) at the specified location be stopped.

2. **FORMAT**

```
STP: [a,]LDSUCOM=b-c-d;
```

3. **EXPLANATION OF MESSAGE**

   a  = Action to be stopped (default is the action currently executing on the LDSUCOM). Valid value(s):
      
      DGN  = Diagnose.
      EX   = Exercise.
      RMV  = Remove.
      RST  = Restore.

   b  = Switching module number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

   c  = Local DSU number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

   d  = Service group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. **SYSTEM RESPONSE**

   NG  = No good. The request has been denied because of a conflict with current status.

   PF  = Printout follows. Followed by the STP:LDSUCOM output message.

5. **REFERENCES**

   **Input Message(s):**
   
   DGN:LDSUCOM  
   EX:LDSUCOM  
   RMV:LDSUCOM  
   RST:LDSUCOM  

   **Output Message(s):**
   
   STP:LDSUCOM
Input Appendix(es):

APP : RANGES
STP:LI
Software Release: 5E14 and later
Command Group: CM
Application: 5
Type: Input

1. PURPOSE

Requests that a diagnostic or exercise on the link interface (LI) on the specified office network and timing complex (ONTC) be stopped.

Stop is differentiated from abort by the action of the request. A stop action is not immediate, but waits for a 'clean' point of termination (such as, the end of a phase), and will attempt to leave the hardware in a valid state. An abort action is immediate and the state of the hardware is not guaranteed.

Note: This message is only valid for offices with communication module model 1 (CM1) hardware.

2. FORMAT

STP: [a,]LI=b;

3. EXPLANATION OF MESSAGE

a = Action to be stopped (default is any action currently waiting or executing on the LI). Valid value(s):
   DGN = Diagnose.
   EX = Exercise.

b = Side of ONTC that the LI is on. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

IP = In progress. The stop has been initiated. A completion message will be printed for the original request when the stop has completed.

NG = No good. The request has been denied. The message syntax is valid, but the request could not be processed. Refer to the APP:CM-IM-REASON appendix in the Appendixes section of the Input Messages manual for a list of possible reasons for denying the request.

5. REFERENCES

Input Message(s):
   DGN:LI
   EX:LI
   OP:DMQ

Output Message(s):
   DGN:LI
   EX:LI
OP: DMQ—CM

Input Appendix(es):

APP: CM—IM—REASON
APP: RANGES
STP:LIB

Software Release: 5E14 and later
Command Group: ADMIN
Application: 5
Type: Input

1. PURPOSE
Requests that the previously started library program be stopped in the administrative module (AM) and/or switching modules (SMs) specified. If no AM or SM(s) is specified, the AM and all SMs currently running under the specified team will receive the message.

2. FORMAT

```
STP:LIB:TEAM=a[,AM][{,SM=b[-b][-b][-b][-b]|c&&d}];
```

3. EXPLANATION OF MESSAGE

| AM | Send the message to the library program running in the AM under this team. |
| a  | The team number (1-15) to which this message applies. This number is specified in the LOAD:LIB message, and is used so that more than one person may test at the same time, using different team numbers. |
| b  | SM(s) to which this message should be directed. The team specified must have a library program running in the SM(s) listed. There can be up to 5 SM numbers listed. A range could be used instead, as indicated. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual. |
| c  | Lower limit of a range of SM numbers. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual. |
| d  | Upper limit of a range of SM numbers. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual. |

Note: If neither the AM nor any SMs are specified, the STP:LIB message is sent to the AM and all SMs with clients loaded under the same team as that specified.

4. SYSTEM RESPONSE

| NG | No good. Either the team number or SM number(s) is illegal. SMs that have not initialized cannot be sent messages. |
| PF | Printout follows. Message has been sent to the SMs/AM or team specified. |

5. REFERENCES

Output Message(s):

```
STP:LIB
```
Input Appendix(es):

APP : RANGES
STP:LIST
Software Release: 5E14 and later
Command Group: TRKLN
Application: 5
Type: Input

1. PURPOSE
Requests a graceful stop of the currently printing port list. Port lists are printed when an OP:LIST input message is processed.

2. FORMAT
STP:LIST;

3. EXPLANATION OF MESSAGE
No variables.

4. SYSTEM RESPONSE
PF = Printout follows. The request has been accepted. Followed by the STP:LIST output message.
RL = Retry later. The request has been denied, most probably due to system load.

5. REFERENCES
Input Message(s):
OP:LIST

Output Message(s):
OP:LIST-DATALIN
OP:LIST-LINES
OP:LIST-OSPSPOR
OP:LIST-TRUNK
STP:LIST
STP:LISTOTO

Software Release: 5E14 and later
Command Group: TRKLN
Application: 5
Type: Input

1. PURPOSE

Requests that active printing tasks initiated by the OP:LISTOTO input message be stopped. These requests are processed in first-in-first-out order (the first printing task requested is the first one stopped).

2. FORMAT

STP:LISTOTO;

3. EXPLANATION OF MESSAGE

No variables.

4. SYSTEM RESPONSE

NG = No good. May also include:
- OP LISTOTO NOT IP = The request has been denied; no printing tasks currently in progress (IP).

PF = Printout follows. The message has been accepted and the oldest OP:LISTOTO printing task will be stopped. Followed by the OP:LISTOTO output message.

5. REFERENCES

Input Message(s):

OP:LISTOTO

Output Message(s):

OP:LISTOTO

Other Manual(s):
235-105-200 Precutover and Cutover Procedures
STP:LIT

Software Release: 5E14 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Requests a graceful termination of a line insulation testing (LIT) session.

2. FORMAT

```
STP:LIT[:OPT=a];
```

3. EXPLANATION OF MESSAGE

```
a = Type of LIT session to be terminated. Valid value(s):
  Q = Automatic LIT scheduled through RCV or requested manually by using the
      EXC:LIT input message.
  S = Manually requested (demand) LIT initiated only by using the EXC:LIT input
      message.
```

4. SYSTEM RESPONSE

```
NG = No good. The message was not recognized. May also include:
  - AUTOMATIC LIT NOT ACTIVE = No ALIT session is in progress.
  - DEMAND LIT NOT ACTIVE = No DLIT session is in progress.

PF = Printout follows. May also include:
  - STOP ACTION INITIATED = Followed by an STP:LIT-COMPL output message.

RL = Retry later. May also include:
  - AM IN MIN MODE = The message was denied because the administrative module is in
    minimum (min) mode.
  - RESOURCE SHORTAGE = Request denied due to insufficient resources.
  - SYSTEM PROBLEM = Request denied due to a system problem other than a resource shortage.
```

5. REFERENCES

Input Message(s):

```
EXC:LIT
OP:LIT
OP:LIT-SM
```

Output Message(s):

```
EXC:LIT
```
STP:LUCHAN

Software Release: 5E14 and later
Command Group: SM
Application: 5,5EXP
Type: Input

1. PURPOSE

Requests that actions on the line unit channel (LUCHAN) at the specified location be stopped.

2. FORMAT

STP: [a,]LUCHAN=b-c-d-e-f;

3. EXPLANATION OF MESSAGE

a = Action to be stopped (default is the action currently executing on the LUCHAN). Valid value(s):
    DGN = Diagnose.
    EX  = Exercise.
    RMV = Remove.
    RST = Restore.

b = Switching module number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

c = Line unit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

d = Service group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

e = Channel board number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

f = Channel number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

NG = No good. The request has been denied because of a conflict with current status.

PF = Printout follows. Followed by the STP:LUCHAN output message.

5. REFERENCES

Input Message(s):

    DGN:LUCHAN
    EX:LUCHAN
    RMV:LUCHAN
    RST:LUCHAN
Output Message(s):

STP : LUCHAN

Input Appendix(es):

APP : RANGES
STP:LUCHBD

Software Release: 5E14 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Requests that actions on the line unit channel board (LUCHBD) at the specified location be stopped.

2. FORMAT

    STP: [a,] LUCHBD=b-c-d-e;

3. EXPLANATION OF MESSAGE

   a = Action to be stopped (default is the action currently executing on the LUCHBD). Valid value(s):
      DGN = Diagnose.
      RMV = Remove.
      RST = Restore.

   b = Switching module number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

   c = Line unit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

   d = Service group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

   e = Channel board number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

   NG = No good. The request has been denied because of a conflict with current status.

   PF = Printout follows. Followed by the STP:LUCHBD output message.

5. REFERENCES

   Input Message(s):
   
   DGN: LUCHBD
   RMV: LUCHBD
   RST: LUCHBD

   Output Message(s):
   
   STP: LUCHBD
Input Appendix(es):

APP: RANGES
STP:LUCOMC

Software Release: 5E14 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Requests that actions on the line unit common control (LUCOMC) at the specified location be stopped.

2. FORMAT

STP:[a,]LUCOMC=b-c-d;

3. EXPLANATION OF MESSAGE

a = Action to be stopped (default is the action currently executing on the LUCOMC). Valid value(s):
   DGN = Diagnose.
   EX = Exercise.
   RMV = Remove.
   RST = Restore.

b = Switching module number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

c = Line unit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

d = Service group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

NG = No good. The request has been denied because of a conflict with current status.

PF = Printout follows. Followed by the STP:LUCOMC output message.

5. REFERENCES

Input Message(s):
   DGN:LUCOMC
   EX:LUCOMC
   RMV:LUCOMC
   RST:LUCOMC

Output Message(s):
   STP:LUCOMC

Input Appendix(es):
STP:LUHLSC

Software Release: 5E14 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Requests that actions on the line unit high level service circuit (LUHLSC) at the specified location be stopped.

2. FORMAT

STP: [a,b,c,d,e];

3. EXPLANATION OF MESSAGE

a = Action to be stopped (default is the action currently executing on the LUHLSC). Valid value(s):
DGN = Diagnose.
EX = Exercise.
RMV = Remove.
RST = Restore.

b = Switching module number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

c = Line unit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

d = Service group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

e = High level service circuit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

NG = No good. The request has been denied because of a conflict with current status.
PF = Printout follows. Followed by the STP:LUHLSC output message.

5. REFERENCES

Input Message(s):

   DGN:LUHLSC
   EX:LUHLSC
   RMV:LUHLSC
   RST:LUHLSC

Output Message(s):
STP: LUHLSC

Input Appendix(es):

APP: RANGES
STP:MA

**Software Release:** 5E14 and later
**Command Group:** SM
**Application:** 5
**Type:** Input

1. **PURPOSE**

Requests that actions on the metallic access (MA) board at the specified location be stopped.

2. **FORMAT**

   \[ \text{STP:}[a,]\text{MA}=b-c-d-e; \]

3. **EXPLANATION OF MESSAGE**

   - **a** = Action to be stopped (default is the action currently executing on the MA board). Valid value(s):
     - DGN = Diagnose.
     - EX = Exercise.
     - RMV = Remove.
     - RST = Restore.

     - **b** = Switching module number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

     - **c** = Metallic service unit (MSU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

     - **d** = Service group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

     - **e** = Board number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. **SYSTEM RESPONSE**

   - **NG** = No good. The request has been denied because of a conflict with current status.

   - **PF** = Printout follows. Followed by the STP:MA output message.

5. **REFERENCES**

   **Input Message(s):**
   - DGN:MA
   - EX:MA
   - RMV:MA
   - RST:MA

   **Output Message(s):**
STP: MA

Input Appendix(es):

APP: RANGES
STP:MAB

Software Release: 5E14 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE
Requests that actions on the metallic access bus (MAB) at the specified location be stopped.

2. FORMAT
STP: [a,]MAB=b-c-d-e;

3. EXPLANATION OF MESSAGE

a = Action to be stopped (default is the action currently executing on the MAB). Valid value(s):
   DGN = Diagnose.
   EX  = Exercise.
   RMV = Remove.
   RST = Restore.

b = Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

c = Unit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

d = Service group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

e = Board number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE
   NG = No good. The request has been denied. The message form is valid, but the request conflicts with current status.
   PF = Printout follows. Followed by the STP:MAB output message.
   RL = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

Input Message(s):
   DGN:MAB
   EX:MAB
   RMV:MAB
   RST:MAB

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Output Message(s):

STP : MAB

Input Appendix(es):

APP : RANGES
**STP:MCTSI**

**Software Release:** 5E14 and later  
**Command Group:** SM  
**Application:** 5  
**Type:** Input

1. **PURPOSE**

Requests that actions on the module controller/time slot interchange (MCTSI) at the specified location be stopped.

2. **FORMAT**

   \[
   \text{STP:}[a,]\text{MCTSI}=b-c;
   \]

3. **EXPLANATION OF MESSAGE**

   a = Action to be stopped (default is the action currently executing on the MCTSI). Valid value(s):
   
   - **DGN** = Diagnose.
   - **EX** = Exercise.
   - **RMV** = Remove.
   - **RST** = Restore.

   b = Switching module number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

   c = Module control unit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. **SYSTEM RESPONSE**

   - **NG** = No good. The request has been denied because of a conflict with current status.
   - **PF** = Printout follows. Followed by the STP:MCTSI output message.

5. **REFERENCES**

Input Message(s):

- **DGN:MCTSI**
- **EX:MCTSI**
- **RMV:MCTSI**
- **RST:MCTSI**

Output Message(s):

- **STP:MCTSI**

Input Appendix(es):

- **APP:RANGES**
STP:MEMSIZE

Software Release: 5E14 and later
Command Group: MAINT
Application: 5
Type: Input

1. PURPOSE

Requests termination of the OP:MEMSIZE input message.

2. FORMAT

STP:MEMSIZE;

3. EXPLANATION OF MESSAGE

No parameters.

4. SYSTEM RESPONSE

OK   = Job is stopped or no job was running.

5. REFERENCES

Input Message(s):

   OP:MEMSIZE

Output Message(s):

   OP:MEMSIZE

Other Manual(s):

Where 'x' is the release-specific version of the document.

235-070-100   Switch Administration and Engineering Guidelines
235-118-251   Recent Change Procedures
235-118-25x   Recent Change Reference
235-600-400   Audits
1. PURPOSE

Requests that a diagnostic or exercise on the message interface (MI) on the specified office network and timing complex (ONTC) be stopped.

Stop is differentiated from abort by the action of the request. A stop action is not immediate, but waits for a 'clean' point of termination (such as, the end of a phase), and will attempt to leave the hardware in a sane state. An abort action is immediate and the state of the hardware is not guaranteed.

2. FORMAT

STP: [a,]MI=b;

3. EXPLANATION OF MESSAGE

a = Action to be stopped (default is any action currently waiting or executing on the MI). Valid value(s):
   DGN = Diagnose.
   EX = Exercise.

b = Side of ONTC that the MI is on. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

IP = In progress. The stop has been initiated. A completion message will be printed for the original request when the stop has completed.

NG = No good. The request has been denied. The message syntax is valid, but the request could not be processed. Refer to the APP:CM-IM-REASON appendix in the Appendixes section of the Input Messages manual for a list of possible reasons for denying the request.

5. REFERENCES

Input Message(s):
   DGN:MI
   EX:MI
   OP:DMQ

Input Appendix(es):
   APP:CM-IM-REASON
   APP:RANGES

Output Message(s):
**STP:MICU**

**Software Release:** 5E14 and later  
**Command Group:** CM  
**Application:** 5  
**Type:** Input

1. **PURPOSE**

Requests that a diagnostic or exercise on the message interface and clock unit (MICU) subunit of the office network and timing complex (ONTC) be stopped.

2. **FORMAT**

```
STP: [a,]MICU=b;
```

3. **EXPLANATION OF MESSAGE**

   a  = Action to be stopped (default is the action currently executing on the MICU). Valid value(s):
       DGN       = Diagnose.
       EX        = Exercise.

   b  = Side of the ONTC that the MICU is on. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. **SYSTEM RESPONSE**

   NG  = No good. The message was correct but the request conflicts with current status.
   OK  = Good. The action will be stopped.

5. **REFERENCES**

   Input Message(s):
   
   OP:DMQ

   Output Message(s):
   
   OP:DMQ
   OP:DMQ-CM
   OP:DMQ-SM

   Input Appendix(es):
   
   APP:RANGES
STP:MMP

Software Release: 5E14 and later
Command Group: CM
Application: 5
Type: Input

1. PURPOSE

Requests that actions on the specified module message processor (MMP) be stopped.

Stop is differentiated from abort by the action of the request. A stop action is not immediate, but waits for a 'clean' point of termination (such as, the end of a phase), and will attempt to leave the hardware in a sane state. An abort action is immediate and the state of the hardware is not guaranteed.

2. FORMAT

STP:a,MMP=b-c;

3. EXPLANATION OF MESSAGE

a = Action to be stopped (default is any action currently waiting or executing on the MMP). Valid value(s):
   DGN = Diagnose. (Not valid for CM3)
   EX = Exercise. (Not valid for CM3)
   RST = Restore.

b = Message switch number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

c = MMP logical identification number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

IP = In progress. The stop has been initiated. A completion message will be printed for the original request when the stop has completed.

NG = No good. The request has been denied. The message syntax is valid, but the request could not be processed. Refer to the APP:CM-IM-REASON appendix in the Appendixes section of the Input Messages manual for a list of possible reasons for denying the request.

5. REFERENCES

Input Message(s):

DGN:MMP
EX:MMP
OP:DMQ
RST:MMP
Output Message(s):

DGN : MMP
EX : MMP
OP : DMQ-CM
RST : MMP

Input Appendix(es):

APP : CM–IM–REASON
APP : RANGES
STP:MSCU

Software Release: 5E14 and later
Command Group: CM
Application: 5
Type: Input

1. PURPOSE

Requests that specific actions on the specified message switch control unit (MSCU) be stopped.

Stop is differentiated from abort by the action of the request. A stop action is not immediate, but waits for a 'clean' point of termination (such as, the end of a diagnostic segment), and will attempt to leave the hardware in a sane state. An abort action is immediate and the state of the hardware is not guaranteed.

2. FORMAT

STP: [a,]MSCU=b;

3. EXPLANATION OF MESSAGE

a = Action to be stopped. Valid value(s):
   DGN = Diagnose. (Not valid for CM3)
   EX = Exercise. (Not valid for CM3)
   RMV = Remove.
   RST = Restore.

   Note: The default is all actions currently waiting or executing on the MSCU.

b = Message switch side number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

IP = In progress. The stop has been initiated. A completion message will be printed for the original request if the stop completes successfully. If no completion message is printed, determine the current status of the original request using the OP:DMQ-CM-SM input message. Consider using the abort (ABT) message, ABT:MSCU, as a final resort, if the original request is still present.

NG = No good. The request has been denied. The message syntax is valid, but the request could not be processed. Refer to the APP:CM-IM-REASON appendix in the Appendixes section of the Input Messages manual for a list of possible reasons for denying the request.

5. REFERENCES

Input Message(s):

ABT:MSCU
DGN:MSCU
EX:MSCU
OP:DMQ-CM-SM
1. PURPOSE

Requests that specific actions on the specified message switch (MSGS) complex be stopped.

2. FORMAT

\texttt{STP: [a,]MSGS=b;}

3. EXPLANATION OF MESSAGE

\texttt{a} = Action to be stopped. Valid value(s):

- \texttt{DGN} = Diagnose.
- \texttt{RMV} = Remove.
- \texttt{RST} = Restore.

\textit{NOTE:} The default is all actions currently waiting or executing on the MSGS.

\texttt{b} = Message switch side number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

\texttt{IP} = In progress. The stop has been initiated. A completion message will be printed for the original request if the stop completes successfully. If no completion message is printed, determine the current status of the original request using the OP:DMQ-CM-SM input message. Consider using the abort (ABT) message, ABT:MSGS, as a final resort, if the original request is still present.

\texttt{NG} = No good. The request has been denied. The message syntax is valid, but the request could not be processed. Refer to the APP:CM-IM-REASON appendix in the Appendixes section of the Input Messages manual for a list of possible reasons for denying the request.

5. REFERENCES

Input Message(s):

- \texttt{ABT:MSGS}
- \texttt{DGN:MSGS}
- \texttt{OP:DMQ-CM-SM}
- \texttt{RMV:MSGS}
- \texttt{RST:MSGS}

Input Appendix(es):

- \texttt{APP:CM-IM-REASON}
- \texttt{APP:RANGES}
Other Manual(s):
235-105-110  System Maintenance Requirements and Tools
235-105-220  Corrective Maintenance
235-105-250  System Recovery Procedures
STP:MSUCOM

Software Release: 5E14 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Requests that actions on the metallic service unit common (MSUCOM) board at the specified location be stopped.

2. FORMAT

STP: [a,]MSUCOM=b-c-d;

3. EXPLANATION OF MESSAGE

a = Action to be stopped (default is the action currently executing on the MSUCOM board). Valid value(s):
  DGN = Diagnose.
  EX = Exercise.
  RMV = Remove.
  RST = Restore.

b = Switching module number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

c = Metallic service unit (MSU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

d = Service group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

NG = No good. The request has been denied because of a conflict with current status.

PF = Printout follows. Followed by the STP:MSUCOM output message.

5. REFERENCES

Input Message(s):
  DGN:MSUCOM
  EX:MSUCOM
  RMV:MSUCOM
  RST:MSUCOM

Output Message(s):
  STP:MSUCOM
  RMV:MSUCOM
STP:MTB

Software Release: 5E14 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Requests that actions on the metallic access test bus (MTB) at the specified location be stopped.

2. FORMAT

STP: [a,]MTB=b-c-d-e-f;

3. EXPLANATION OF MESSAGE

a = Action to be stopped (default is the action currently executing on the MTB). Valid value(s):
   DGN = Diagnose.
   EX  = Exercise.
   RMV = Remove.
   RST = Restore.

b = Switching module number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

c = Metallic service unit (MSU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

d = Service group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

e = Board number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

f = Metallic access test bus number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

NG = No good. The request has been denied because of a conflict with current status.

PF = Printout follows. Followed by the STP:MTB output message.

5. REFERENCES

Input Message(s):

DGN:MTB
EX:MTB
RMV:MTB
RST:MTB
Output Message(s):

STP: MTB

Input Appendix(es):

APP: RANGES

MCC Display Page(s):

1135/1145 (MSU MA STATUS)
1. PURPOSE

Requests that actions on the metallic test interconnect bus (MTIB) at the specified location be stopped.

2. FORMAT

STP: [a,]MTIB=b;

3. EXPLANATION OF MESSAGE

a = Action to be stopped (default is the action currently executing on the MTIB). Valid value(s):
   DGN = Diagnose.
   EX  = Exercise.
   RMV = Remove.
   RST = Restore.

b = MTIB number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

NG = No good. The request has been denied. The message form is valid, but the request conflicts with current status.

PF = Printout follows. Followed by the STP:MTIB output message.

RL = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

Input Message(s):
   DGN:MTIB
   EX:MTIB
   RMV:MTIB
   RST:MTIB

Output Message(s):
   STP:MTIB

Input Appendix(es):
   APP: RANGES
STP:MTIBAX

Software Release: 5E14 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE
Requests that actions on the metallic test interconnect bus access (MTIBAX) at the specified location be stopped.

2. FORMAT
STP:[a,]MTIBAX=b-c-d-e;

3. EXPLANATION OF MESSAGE

a = Action to be stopped (default is the action currently executing on the MTIBAX). Valid value(s):
   DGN = Diagnose.
   EX  = Exercise.
   RMV = Remove.
   RST = Restore.

b = Switching module number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

c = Unit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

d = Service group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

e = Board number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

NG = No good. The request has been denied. The message form is valid, but the request conflicts with current status.

PF = Printout follows. Followed by the STP:MTIBAX output message.

RL = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

Input Message(s):
   DGN:MTIBAX
   EX:MTIBAX
   RMV:MTIBAX
   RST:MTIBAX
Output Message(s):

STP: MTIBAX

Input Appendix(es):

APP: RANGES
1. PURPOSE

Requests that a diagnostic or exercise on the network clock (NC) on the specified office network and timing complex (ONTC) be stopped.

Stop is differentiated from abort by the action of the request. A stop action is not immediate, but waits for a 'clean' point of termination (such as, the end of a phase), and will attempt to leave the hardware in a sane state. An abort action is immediate and the state of the hardware is not guaranteed.

2. FORMAT

STP:[a,]NC=b;

3. EXPLANATION OF MESSAGE

a

= Action to be stopped (default is any action currently waiting or executing on the NC). Valid value(s):

DGN = Diagnose.
EX = Exercise.

b

= Side of ONTC that the NC is on. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

IP

= In progress. The stop has been initiated. A completion message will be printed for the original request when the stop has completed.

NG

= No good. The request has been denied. The message syntax is valid, but the request could not be processed. Refer to the APP:CM-IM-REASON appendix in the Appendixes section of the Input Messages manual for a list of possible reasons for denying the request.

5. REFERENCES

Input Message(s):

DGN:NC
EX:NC
OP:DMQ

Output Message(s):

DGN:NC
OP:DMQ-CM
Input Appendix(es):

APP: CM–IM–REASON
APP: RANGES
STP:NIPMP

**Software Release:** 5E14 and later  
**Command Group:** SM  
**Application:** 5  
**Type:** Input

1. **PURPOSE**

Requests that a non-interfering pump for the specified switching module (SM) be canceled.

2. **FORMAT**

```
STP:NIPMP,SM=a;
```

3. **EXPLANATION OF MESSAGE**

- **a** = SM number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. **SYSTEM RESPONSE**

- **NG** = No good. Request not initiated due to bad syntax or invalid SM specified.
- **PF** = Printout follows. Request accepted. Followed by the REPT:NIPMP output message.

5. **REFERENCES**

**Input Message(s):**

- ST:NIPMP

**Output Message(s):**

- REPT:NIPMP

**Input Appendix(es):**

- APP:RANGES
1. PURPOSE

Requests that an action be stopped on a specific network link interface (NLI).

Stop is differentiated from abort by the action of the request. A stop action is not immediate, but waits for a 'clean' point of termination (such as, the end of a phase), and attempts to leave the hardware in a correct state. An abort action is immediate and the state of the hardware is not guaranteed.

2. FORMAT

STP: [a,] NLI=b-c-d;

3. EXPLANATION OF MESSAGE

a = Action being stopped (default is any action currently waiting or executing on the NLI). Valid value(s):
   DGN = Diagnose.
   EX  = Exercise.
   RST = Restore.

   NOTE: A remove or unconditional restore cannot be stopped once it is accepted.

b = Switching module (SM) number. Refer to the APP: RANGES appendix in the Appendixes section of the Input Messages manual.

c = NLI number. Refer to the APP: RANGES appendix in the Appendixes section of the Input Messages manual.

d = Office network and timing complex (ONTC) side number. Refer to the APP: RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

IP = In progress. The stop has been initiated. A completion message is printed for the original request when the stop has completed.

NG = No good. The request has been denied. The message syntax is valid, but the request could not be processed. Refer to the APP: CM-IM-REASON appendix in the Appendixes section of the Input Messages manual for a list of possible reasons for denying the request.

5. REFERENCES

Input Message(s):

   ABT: NLI
   DGN: NLI
EX:NLI
OP:DMQ-CM-SM
RST:NLI

Output Message(s):

DGN:NLI
EX:NLI
OP:DMQ-CM
OP:DMQ-SM
RST:NLI

Input Appendix(es):

APP:CM–IM–REASON
APP:RANGES

Other Manual(s):
235-105-110 System Maintenance Requirements and Tools
235-105-220 Corrective Maintenance
235-105-250 System Recovery Procedures

MCC Display Page(s):

1190 (MCTSI)
1200 (DLI/NLI)
STP:NMOP

Software Release: 5E14 and later
Command Group: NMOC
Application: 5
Type: Input

1. PURPOSE

Requests that further output from a previously requested network management OP input message be stopped. This message can stop: OP:CGAP, OP:DOC, OP:SILC, OP:SSTR, OP:TGC, OP:TR, OP:NMNODES, OP:NMSCH input messages, or the OP:M5 input message with the PKG=TGFLAG, or the PKG=TGMEAS options.

2. FORMAT

STP:NMOP;

3. EXPLANATION OF MESSAGE

No variables.

4. SYSTEM RESPONSE

NG = No good. May also include:
   - NO REPORT TO STOP = The request could not be processed because there is no report to stop.

OK = Good. Stop request initiated. Message will stop printing.

RL = Retry later. May also include:
   - RESOURCE SHORTAGE = The necessary resources are not available.

5. REFERENCES

Input Message(s):

OP:CGAP
OP:DOC
OP:M5
OP:NMNODES
OP:NMSCH
OP:SILC
OP:SSTR
OP:TGC
OP:TR

Other Manual(s):
235-190-120 Local and Toll System Features

MCC Display Page(s):
130 (NM EXCEPTION)
STP:OC3

Software Release: 5E16(1) and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Requests that the currently executing maintenance action on an optical carrier - level 3 (OC3) be stopped.

2. FORMAT

STP: [a,]OC3=b-c-d-e-f;

3. EXPLANATION OF MESSAGE

a = Action being stopped (default is the currently executing action). Valid value(s):
   RMV = Remove.
   RST = Restore.

b = Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

c = Optical interface unit (OIU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

d = Protection group (PG) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

e = OC3 number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

f = Side number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

NG = No good. The message form is valid, but the request conflicts with current status.

PF = Printout follows. Followed by the STP:OC3 output message.

RL = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

Input Message(s):

ABT:OC3
RMV:OC3
RST:OC3
Output Message(s):

STP: OC3

Input Appendix(es):

APP: RANGES

Other Manual(s):

235-105-110  System Maintenance Requirements and Tools
235-105-220  Corrective Maintenance

MCC Display Page(s):

1491        OIU OC3 STATUS
STP:OC3C

Software Release: 5E16(2) and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Requests that the currently executing maintenance action on an optical carrier - level 3 concatenated (OC3C) facility be stopped.

2. FORMAT

STP: [a,]OC3C=b-c-d-e-f;

3. EXPLANATION OF MESSAGE

a = Action being stopped (default is the currently executing action). Valid value(s):
RMV = Remove.
RST = Restore.

b = Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

c = Optical interface unit (OIU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

d = Protection group (PG) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

e = OC3C number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

f = Side number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

NG = No good. The message form is valid, but the request conflicts with current status.
PF = Printout follows. Followed by the STP:OC3C output message.
RL = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

Input Message(s):

  ABT:OC3C
  RMV:OC3C
  RST:OC3C
STP:ODDEVOL

**Software Release:** 5E14 and later  
**Command Group:** ODD  
**Application:** 5  
**Type:** Input

**WARNING:** INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Requests that the office dependent data (ODD) evolution or double logging process be stopped. All files containing recent changes (RCs) or customer-originated recent changes (CORCs) that were saved during the ODD evolution or double logging will be removed.

**WARNING:** This message should be used only when backing out of a software release retrofit or large terminal growth.

2. FORMAT

STP:ODDEVOL;

3. EXPLANATION OF MESSAGE

No variables.

4. SYSTEM RESPONSE

PF = Printout follows. Followed by an STP:ODDEVOL output message.

5. REFERENCES

Input Message(s):

BKUP:ODD

Output Message(s):

STP:ODDEVOL

Other Manual(s):

Where ‘x’ is the release-specific version of the document.  
235-105-24x  *Software Release Retrofit*  
235-105-44x  *Large Terminal Growth*
STP:OFI

Software Release: 5E16(1) and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Requests that the currently executing maintenance action on an optical facility interface (OFI) be stopped.

2. FORMAT

STP:[a,]OFI=b-c-d-e;

3. EXPLANATION OF MESSAGE

a = Action being stopped (default is the currently executing action). Valid value(s):
   DGN = Diagnose.
   RMV = Remove.
   RST = Restore.

b = Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

c = Optical interface unit (OIU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

d = Protection group (PG) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

e = Side number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

NG = No good. The message form is valid, but the request conflicts with the current status.
PF = Printout follows. Followed by the STP:OFI output message.
RL = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

Input Message(s):
   ABT:OFI
   DGN:OFI
   RMV:OFI
   RST:OFI
Output Message(s):

STP: OFI

Input Appendix(es):

APP: RANGES

MCC Display Page(s):
1490 OIU STATUS
STP:OFR

Software Release: 5E14 and later
Command Group: RCV
Application: 5
Type: Input

1. PURPOSE
Requests that any office records print message be stopped.

2. FORMAT

STP:OFR:REQID=a;

3. EXPLANATION OF MESSAGE

a = Request identification number of print request, as given in the OP:OFR-CAT or OP:OFR-FORM output messages.

4. SYSTEM RESPONSE

PF = Printout follows.

5. REFERENCES

Input Message(s):

ABT:OFR
IN:OFR-PARM
OP:OFR-CAT
OP:OFR-FORM
OP:OFR-STATUS
STP:ONTC
Software Release: 5E14 and later
Command Group: CM
Application: 5
Type: Input

1. PURPOSE
Requests that an action on the specified office network and timing complex (ONTC) be stopped.

Stop is differentiated from abort by the action of the request. A stop action is not immediate, but waits for a 'clean' point of termination (for example, the end of a phase), and will attempt to leave the hardware in a sane state. An abort action is immediate and the state of the hardware is not guaranteed.

2. FORMAT
STP: [a,]ONTC=b;

3. EXPLANATION OF MESSAGE

a = Action to be stopped (default is any action currently waiting or executing on the ONTC). Valid value(s):
   DGN = Diagnose.
   RST = Restore.

b = Side of the ONTC. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE
IP = In progress. The stop has been initiated. A completion message will be printed for the original request when the stop has completed.
NG = No good. The request has been denied. The message syntax is valid, but the request could not be processed. Refer to the APP:CM-IM-REASON appendix in the Appendixes section of the Input Messages manual for a list of possible reasons for denying the request.

5. REFERENCES
Input Message(s):
   DGN: ONTC
   OP: DMQ
   RST: ONTC

Output Message(s):
   DGN: ONTC
   OP: DMQ-CM
   RST: ONTC
Input Appendix(es):

APP: CM–IM–REASON
APP: RANGES
STP:ONTCCOM

Software Release: 5E14 and later
Command Group: CM
Application: 5
Type: Input

1. PURPOSE

Requests that an action on the specified office network and timing complex common unit (ONTCCOM) be stopped.

Stop is differentiated from abort by the action of the request. A stop action is not immediate, but waits for a 'clean' point of termination (such as, the end of a phase), and will attempt to leave the hardware in a sane state. An abort action is immediate and the state of the hardware is not guaranteed.

2. FORMAT

STP: [a,]ONTCCOM=b;

3. EXPLANATION OF MESSAGE

a = Action to be stopped. The default is any action currently waiting or executing on the ONTCCOM.
   Valid value(s):
   DGN = Diagnose.
   RST = Restore.

b = ONTC common side. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

IP = In progress. The stop has been initiated. A completion message will be printed for the original request when the stop has completed.

NG = No good. The request has been denied. The message syntax is valid, but the request could not be processed. Refer to the APP:CM-IM-REASON appendix in the Appendixes section of the Input Messages manual for a list of possible reasons for denying the request.

5. REFERENCES

Input Message(s):
   DGN:ONTCCOM
   OP:DMQ
   RST:ONTCCOM

Output Message(s):
   DGN:ONTCCOM
   OP:DMQ-CM
   RST:ONTCCOM
Input Appendix(es):

APP:CM-IM-REASON
STP:OP-ALM-ALL

Software Release: 5E14 and later
Command Group: ALARM
Application: 5
Type: Input

1. PURPOSE

Requests that the reporting of all active alarms in the office in response to the OP:ALM-ALL input message be stopped. This request will not stop the reports dealing with office building, power, and miscellaneous alarms, common network interface (CNI) alarms, external sanity monitor (ESM) alarms, miscellaneous frame fuse alarms, time-multiplexed switch (TMS) alarms, message switch (MSGS) alarms, or office network and timing complex (ONTC) alarms. These outputs are collected and queued to the receive-only printer (ROP) too quickly to stop, even though the printouts haven’t printed yet.

2. FORMAT

STP:OP:ALM,ALL;

3. EXPLANATION OF MESSAGE

No variables.

4. SYSTEM RESPONSE

OK = Good. The request has been accepted.

NG = No good. May also include:
   - OP ALM ALL NOT RUNNING = The request is being denied because there is no OP:ALM-ALL request currently in progress.

5. REFERENCES

Input Message(s):

CLR:OP-ALM-ALL
OP:ALM
OP:CFGSTAT
OP:CGA
OP:MSUSP
OP:RT-ALM-ALL

Output Message(s):

OP:ALM-ALL
OP:ALM-RBPSC
OP:ALM-RIBMSC
OP:ALM-RISLUSC
OP:CFGSTAT-CM
OP:CGA
OP:MSUSP
OP:RT-ALARM
STP:OP-MON

Software Release: 5E14 and later
Command Group: SFTUTIL
Application: 5
Type: Input

1. PURPOSE

Requests that any action in progress due to an OP:MON-CTL, OP:MON-PID or OP:MON-DSP input message be stopped.

2. FORMAT

STP:OP,MON,{AM|SM=a|CMP=b-c};

3. EXPLANATION OF MESSAGE

a  = Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.


c  = Communications module processor (CMP) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

5. REFERENCES

Input Message(s):

OP : MON-CTL
OP : MON-DSP
OP : MON-PID

Output Message(s):

OP : MON-CTL
OP : MON-DSP
OP : MON-PID
STP : OP-MON

Input Appendix(es):

APP : RANGES
STP:OPUMP-SM

Software Release: 5E14 and later
Command Group: SFTMGT
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Requests that offline pump requests for the specified switching modules (SMs) including peripheral offline pumps be cancelled.

If an offline pump has been started using the ST:OPUMP message or automatically in the retrofit procedure, this input message aborts the request for the specified SM(s).

If an offline pump has been performed, but some of the duplexed peripheral units failed to offline pump, this message can be used to stop a re-pump of a duplexed peripheral unit.

WARNING: This message is used to abort the offline pump of an SM or duplexed peripheral units.

2. FORMAT

STP:OPUMP, SM=a[&&b][,LSM][,HSM][,RSM];

3. EXPLANATION OF MESSAGE

HSM = Stop offline pump of the HSMs within the indicated range.
LSM = Stop offline pump of the LSMs within the indicated range.
RSM = Stop offline pump of the RSMs within the indicated range.
a = SM number, or the lower limit of a range of SMs. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
b = Upper limit of the range of SM numbers. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

NG = No good. Process not initiated due to bad syntax or invalid SM specified.
OK = Message good. Valid value(s):
   - PUMPING SMS WILL REPORT = Printout will follow from only those SMs specified that were in a pumping state.

5. REFERENCES

Input Message(s):
ST:OPUMP-SM

Output Message(s):

REPT:SM-HASHSUM
REPT:SM-OFFLINE

Input Appendix(es):

APP:RANGES
1. PURPOSE

Requests that the offline pump be stopped.

2. FORMAT

STP:OPUMP,CMP=a,MATE;

3. EXPLANATION OF MESSAGE

MATE = Non-active CMP.

a = CMP number.

4. SYSTEM RESPONSE

IP = In progress. The stop has been initiated. A completion message will be printed for the original request if the stop completes successfully. If no completion message is printed, determine the current status of the original request using the OP:DMQ-CM-SM input message, and consider using the abort message, ABT:CMP, as a final resort if the original request is still present.

NG = No good. The request has been denied. The message syntax is valid, but the request could not be processed. Refer to the APP:CM-IM-REASON appendix in the Appendixes section of the Input Messages manual for a list of possible reasons for denying the request.

5. REFERENCES

Input Message(s):

ST:OPUMP-CMP

Input Appendix(es):

APP:CM-IM-REASON

Output Message(s):

ST:OPUMP-CMP

Other Manual(s):
235-105-110  System Maintenance Requirements and Tools
235-105-220  Corrective Maintenance
235-105-250  System Recovery Procedures
**STP:PAG**

- **Software Release:** 5E16(1) and later
- **Command Group:** SM
- **Application:** 5
- **Type:** Input

1. **PURPOSE**

Requests the actions be stopped on a network interface.

2. **FORMAT**

   \[ \text{STP:PAG=a-b,~NETINTF=c;} \]

3. **EXPLANATION OF MESSAGE**

   - **a** = Switch module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
   - **b** = Packet access gateway (PAG) component number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
   - **c** = Network interface number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. **SYSTEM RESPONSE**

   - **NG** = No good. The message form is valid, but the request conflicts with the current status.
   - **PF** = Printout follows. Followed by the STP:PAG output message.
   - **RL** = Retry later. The request cannot be executed now due to unavailable system resources.

5. **REFERENCES**

   **Output Message(s):**

   - STP:PAG

   **Input Appendix(es):**

   - APP:RANGES

   **Other Manual(s):**

   - 235-105-110  *System Maintenance Requirements and Tools*
   - 235-105-220  *Corrective Maintenance*

   **MCC Display Page(s):**

   - 1342,y PAG

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*Page 1*
1. PURPOSE

Stop currently printing packet data serving node (PDSN) status list. PDSN status lists are printed when an OP:PCF input message is processed.

2. FORMAT

STP:PCF;

3. EXPLANATION OF MESSAGE

No variables.

4. SYSTEM RESPONSE

PF = Printout follows. Followed by the STP:PCF output message.

5. REFERENCES

Input Message(s):

OP:PCF

Output Message(s):

OP:PCF
STP:PCF
**STP:PCTDX**

**Software Release:** 5E14 and later  
**Command Group:** SM  
**Application:** 5  
**Type:** Input

1. **PURPOSE**

Requests the actions be stopped on a peripheral control and timing data exchanger (PCTDX)

2. **FORMAT**

   STP:PCTDX=a-b-c;

3. **EXPLANATION OF MESSAGE**

   a  =  Switch Module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

   b  =  Peripheral control and timing data exchanger unit (PDXU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

   c  =  Peripheral control and timing data exchanger (PCTDX) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. **SYSTEM RESPONSE**

   NG  =  No good. The request has been denied. The message form is valid, but the request conflicts with the current status.

   PF  =  Printout follows. Followed by the STP:PCTDX output message.

   RL  =  Retry later. The request cannot be executed now due to unavailable system resources.

5. **REFERENCES**

   Input Message(s):
   
   DGN:PCTDX  
   RMV:PCTDX  
   RST:PCTDX

   Output Message(s):
   
   STP:PCTDX

   Input Appendix(es):
   
   APP:RANGES
Other Manual(s):

235-105-110  System Maintenance Requirements and Tools
235-105-220  Corrective Maintenance

MCC Display Page(s):

1330.y (PDXU)
STP:PCTF

Software Release: 5E14 and later
Command Group: TRKLN
Application: 5
Type: Input

1. PURPOSE

To request a graceful stop of the currently printing per call test failure (PCTF) summary. PCTF summary lists are printed when an OP:PCTF input message is processed and automatically on a periodic basis. The STP:PCTF request will only stop a manually initiated PCTF summary; automatically initiated summaries are not affected.

2. FORMAT

STP:PCTF;

3. EXPLANATION OF MESSAGE

No variables.

4. SYSTEM RESPONSE

PF = Printout follows. The request has been accepted. Followed by the STP:PCTF output message.

RL = Retry later. The request has been denied, most probably due to system load.

5. REFERENCES

Input Message(s):

OP:PCTF

Output Message(s):

OP:PCTF
STP:PCTF

Other Manual(s):
235-105-220 Corrective Maintenance
1. PURPOSE

Requests the Operating System for Distributed Switching (OSDS) resource monitoring utility to stop collecting and reporting usage of OSDS message, process, stack, and timer control blocks.

2. FORMAT

STP:PERF,{AM|CMP=a-b|SM=c};

3. EXPLANATION OF MESSAGE

AM = Operational kernel process in the administrative module (AM).

a = Message switch side. Refer to the APP:RANGES appendix in the Appendices section of the Input Messages manual.

b = Communications module processor (CMP) number. Refer to the APP:RANGES appendix in the Appendices section of the Input Messages manual.

c = Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendices section of the Input Messages manual.

4. SYSTEM RESPONSE

NG = No good. The message syntax is valid, but the request conflicts with current system or equipment status. May also include:
- CMP NOT EQUIPPED = Requested CMP is not equipped.
- INTERNAL ERROR = An internal error has occurred while processing a CMP request.

OK = Request was successful. OSDS resource monitoring in the requested destination will be halted. May also include:
- JOB ALREADY INACTIVE = OSDS resource monitoring was already disabled.

RL = Retry later. The request cannot be initiated now because:
- CMP SOFT SWITCH INPG = A CMP soft switch is in progress.
- CMP UNAVAILABLE = Requested CMP is out of service, initializing, or unavailable.

5. REFERENCES

Input Message(s):

OP:PERF
Output Message(s):

OP : PERF

Input Appendix(es):

APP : RANGES
STP:PLTLK

**Software Release:** 5E15 and later  
**Command Group:** SM  
**Application:** 5  
**Type:** Input

1. **PURPOSE**

Stops the currently executing action on a PCT (Peripheral Control and Timing) line and trunk unit link.

2. **FORMAT**

```
STP: [a,]PLTLK=b-c-d-e;
```

3. **EXPLANATION OF MESSAGE**

- **a** = Action to be stopped (default is the action currently executing on the PCT link). Valid value(s):  
  - DGN = Diagnose.  
  - RMV = Remove.  
  - RST = Restore.

- **b** = Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

- **c** = PLTU (PCT Line and Trunk Unit) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

- **d** = PCT Facility Interface number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

- **e** = PCT Facility Interface side number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

- **UCL** = Remove unconditionally.

4. **SYSTEM RESPONSE**

- **NG** = No good. Valid values are:  
  - REASON FOR NG = The message form is valid, but the request conflicts with current status.

- **PF** = Printout follows. A STP PLTLK output message follows.

- **RL** = Retry later. The request cannot be executed now due to unavailable system resource.

5. **REFERENCES**

**Input Message(s):**

- ABT:PLTLK
- DGN:PLTLK
RST: PLTLK
RMV: PLTLK
SW: PLTLK

Output Message(s):

STP: PLTLK

Input Appendix(es):

APP: RANGES

Other Manual(s):

235-105-110   System Maintenance Requirements and Tools
235-105-220   Corrective Maintenance

MCC Display Page(s):

1430 (PLTU Status page)
1. PURPOSE

Requests that a specific integrated services digital network (ISDN) channel protocol monitoring (PM) session or all protocol monitoring sessions be stopped. If XLATE is requested, the American standard code for information interchange (ASCII) translation of the hexadecimal data currently collected for the specified session(s) will be sent to the ASCII translation file (ATF) atf.xxx. If DUMP is requested for a PM session that was initiated with the XLATE input message, the ASCII translation of the hexadecimal data currently collected for the specified session(s) will be sent to the ATF. Otherwise, if DUMP is requested, the hexadecimal data currently collected for the specified session(s) will be displayed.

2. FORMAT

STP:PM{,SES=a|ALL}{,DUMP}{,PRINT}{,XLATE};

3. EXPLANATION OF MESSAGE

Note: Refer to the Acronym section of the Input Messages manual for the full expansion of acronyms shown in the format.

ALL = Stop all protocol monitoring sessions.

DUMP = Dump the recorded data before the session is terminated. If the PM session was initiated with the XLATE option, dumping the data will have the same result as issuing the STP:PM input message with the XLATE option. Otherwise, the hexadecimal data will be displayed.

PRINT = Print the EXC PM STOPPED output on the receive-only printer (ROP).

NOTE: If the request is initiated from the Master Control Center (MCC) or a supplemental trunk and line workstation (STLWS), the output is automatically printed on the ROP. Any other device requires this option for printing output on the ROP.

NOTE: If the output from this PM session is being translated because the session was initiated with the XLATE option, or because the STP:PM input message was given with the XLATE option, the PRINT option will have no impact. Translated data will never go to the ROP.

XLATE = Translate the hexadecimal data messages of the recording session into ASCII and store the translated output in a file on the moving head disk (MHD) of the administrative module (AM). Translation capability is a "secured feature". If the feature is not activated, the information will be reported in hex format. Translation is not available for all protocols. Translation is supported for LapB, LapD, Q.931 (Custom only), X.25, and X.75. Protocols. If the translation of the protocol is not supported, the information will be reported in hex format. The file name will be formatted atf.xxx where xxx corresponds to the session number of the protocol monitoring session. The protocol translator will store the ATF in a predetermined location. The location is presently /unixa/users/pmtran/atf.xxx. The full path name of the ATF will appear in the ROP output.

NOTE: If the data collection phase of the session has terminated prior to the execution of the STP:PM input message, translation is no longer an option.

NOTE: Translated data will never go to the ROP.
a = The protocol monitoring session (SES) specified in the EXC PM STARTED output message.

4. SYSTEM RESPONSE

NG = No good. The message was not recognized, or was not acceptable.

PF = Printout follows. The request has been accepted and is in progress. Followed by the STP:PM output message.

RL = Retry later. The system is busy.

5. REFERENCES

Input Message(s):

EXC:PM
OP:PM

Output Message(s):

EXC:PM
OP:PM
STP:PM

Other Manual(s):

235-105-110  System Maintenance Requirements and Tools
235-190-130  Local Area Services Features
235-900-301  ISDN Basic Rate Interface Specification
STP:PM-B

Software Release: 5E16(1) and later
Command Group: TRKLN
Application: 5
Type: Input

1. PURPOSE

Requests that a specific integrated services digital network (ISDN) channel protocol monitoring (PM) session or all protocol monitoring sessions be stopped. After the introduction of PCF on PHE2 feature, it is also used to stop a PCF PM session. If SES=ALL is specified, all the PM sessions will be stopped. If XLATE is requested, the American standard code for information interchange (ASCII) translation of the hexadecimal data currently collected for the specified session(s) will be sent to the ASCII translation file (ATF) atf.xxx. If DUMP is requested for a PM session that was initiated with the XLATE input message, the ASCII translation of the hexadecimal data currently collected for the specified session(s) will be sent to the ATF. Otherwise, if DUMP is requested, the hexadecimal data currently collected for the specified session(s) will be displayed.

2. FORMAT

STP:PM{,SES=a|ALL}{,DUMP}{,PRINT}{,XLATE};

3. EXPLANATION OF MESSAGE

Refer to the Acronym section of the Input Messages manual for the full expansion of acronyms shown in the format.

ALL = Stop all protocol monitoring sessions.

DUMP = Dump the recorded data before the session is terminated. If the PM session was initiated with the XLATE option, dumping the data will have the same result as issuing the STP:PM input message with the XLATE option. Otherwise, the hexadecimal data will be displayed.

PRINT = Print the EXC PM STOPPED output on the ROP.

If the request is initiated from the Master Control Center (MCC) or a supplemental trunk and line workstation (STLWS), the output is automatically printed on the ROP. Any other device requires this option for printing output on the ROP.

If the output from this PM session is being translated because the session was initiated with the XLATE option, or because the STP:PM input message was given with the XLATE option, the PRINT option will have no impact. Translated data will never go to the ROP.

XLATE = Translate the hexadecimal data messages of the recording session into ASCII and store the translated output in a file on the moving head disk (MHD) of the administrative module (AM). Translation capability is a "secured feature". If the feature is not activated, the information will be reported in hex format. Translation is not available for all protocols. Translation is supported for LAPB, LAPD, Q.931 (Custom only), X.25, X.75, and RLP protocols. If the translation of the protocol is not supported, the information will be reported in hex format. The file name will be formatted atf.xxx where xxx corresponds to the session number of the protocol monitoring session. The protocol translator will store the ATF in a predetermined location. The location is presently /unixa/users/pmtran/atf.xxx. The full path name of the ATF will appear in the ROP output.

If the data collection phase of the session has terminated prior to the execution of the STP:PM input message, translation is no longer an option.

Translated data will never go to the ROP.
= The protocol monitoring session (SES) specified in the EXC PM STARTED output message.

4. SYSTEM RESPONSE

NG = No good. The message was not recognized, or was not acceptable.

PF = Printout follows. The request has been accepted and is in progress. Followed by the STP:PM output message.

RL = Retry later. The system is busy.

5. REFERENCES

Input Message(s):

EXC:PM
OP:PM

Output Message(s):

EXC:PM
OP:PM
STP:PM

Other Manual(s):
235-105-110 System Maintenance Requirements and Tools
235-190-104 ISDN Feature Descriptions
235-190-130 Local Area Signaling Services
235-900-341 National ISDN Basic Rate Interface Specification
1. PURPOSE

Requests that a specific CCS protocol monitoring (PM) session or all CCS protocol monitoring sessions be stopped. If DISCARD is specified, any data collected for the session(s) will be discarded (i.e. not reported). If the data is to be reported, the default format of the data will be the format that was specified on the initiating EXC:PMCCS command for that session. That is, if the EXC:PMCCS command initiating this session defaulted to XLATE, then the STP:PMCCS output will also be translated as a default. Similarly, if the EXC:PMCCS command initiating this session was specified to provide a HEXDUMP, then the STP:PMCCS output will also provide a HEXDUMP as a default. Two options are provided to override the STP:PMCCS default output format. Specifying XLATE on the STP:PMCCS will provide translation of the hexadecimal data in an ASCII translation file (ATF) atf.xxx. If HEXDUMP is requested for the STP:PMCCS command, the hexadecimal data currently collected for the specified session(s) will be displayed on the receive-only printer (ROP).

Note: The STP:PMCCS command stops all subsequent sessions related to the session specified. That is, if the STP:PMCCS command is issued to stop a session that was initiated with the REPEAT option, the session will not REPEAT.

2. FORMAT

\texttt{STP:PMCCS\{,SES=a|ALL\}[,XLATE|HEXDUMP|DISCARD];}

3. EXPLANATION OF MESSAGE

Note: Refer to the Acronym section of the Input Messages manual for the full expansion of acronyms shown in the format. The default behavior for the STP:PMCCS command is to display the data as was requested in the EXC:PMCCS command which initiated the request.

\texttt{ALL} = Stop all CCS protocol monitoring sessions.

\texttt{XLATE} = Translate the hexadecimal data messages of the recording session into ASCII and store the translated output in a file on the moving head disk (MHD) of the administrative module (AM). Overrides EXC:PMCCS specification. If the translation of the protocol is not supported, the information will be reported in hexadecimal format. The file name will be formatted atf.xxx where xxx corresponds to the session number of the protocol monitoring session. The protocol translator will store the ATF in a predetermined location. The location is presently /unixa/users/pmtran/atf.xxx. The full path name of the ATF will appear in the ROP output.

\texttt{HEXDUMP} = Report the data in hexadecimal format on the ROP. Overrides EXC:PMCCS specification.

\texttt{DISCARD} = Do not report any data collected. This option can be used to stop sessions that are in a TRANSIENT STATE.

\texttt{a} = The CCS protocol monitoring session (SES) specified in the EXC PMCCS STARTED output message.

4. SYSTEM RESPONSE
NG  = No good. The message was not recognized, or was not acceptable.
PF  = Printout follows. The request has been accepted and is in progress. Followed by the STP:PMCCS output message.
RL  = Retry later. The system is busy.

5. REFERENCES

Input Message(s):

EXC:PMCCS
OP:PMCCS

Output Message(s):

EXC:PMCCS
OP:PMCCS
STP:PMCCS

Other Manual(s):
235-105-110  System Maintenance Requirements and Tools
STP:PMU

Software Release: 5E14 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE
Requests that actions on the pulse metering unit (PMU) at the specified location be stopped.

2. FORMAT
STP: [a, ]PMU=b-c-d;

3. EXPLANATION OF MESSAGE

a = Action to be stopped (default is the action currently executing on the PMU). Valid value(s):
   DGN = Diagnose.
   EX  = Exercise.
   RMV = Remove.
   RST = Restore.

b = Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

c = Unit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

d = Circuit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

NG = No good. The request has been denied. The message form is valid, but the request conflicts with current status.

PF = Printout follows. Followed by the STP:PMU output message.

RL = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

Input Message(s):
   DGN:PMU
   EX:PMU
   RMV:PMU
   RST:PMU

Output Message(s):
STP: PMU

Input Appendix(es):

APP : RANGES
1. PURPOSE

Requests that actions on the specified pump peripheral controller (PPC) be stopped.

Stop is differentiated from abort by the action of the request. A stop action is not immediate, but waits for a 'clean' point of termination (such as, the end of a phase), and will attempt to leave the hardware in a sane state. An abort action is immediate and the state of the hardware is not guaranteed.

2. FORMAT

\texttt{STP:a,PPC=b;}

3. EXPLANATION OF MESSAGE

\begin{itemize}
\item \texttt{a} = Action to be stopped (default is any action currently waiting or executing on the PPC). Valid value(s):
\begin{itemize}
\item \texttt{DGN} = Diagnose. (Not valid for CM3)
\item \texttt{EX} = Exercise. (Not valid for CM3)
\item \texttt{RST} = Restore.
\end{itemize}
\item \texttt{b} = PPC number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
\end{itemize}

4. SYSTEM RESPONSE

\begin{itemize}
\item \texttt{IP} = In progress. The stop has been initiated. A completion message will be printed for the original request when the stop has completed.
\item \texttt{NG} = No good. The request has been denied. The message syntax is invalid, but the request could not be processed. Refer to the APP:CM-IM-REASON appendix in the Appendixes section of the Input Messages manual for a list of possible reasons for denying the request.
\end{itemize}

5. REFERENCES

\begin{itemize}
\item \texttt{Input Message(s):}
\begin{itemize}
\item \texttt{DGN:PPC}
\item \texttt{EX:PPC}
\item \texttt{OP:DMQ}
\item \texttt{RST:PPC}
\end{itemize}
\item \texttt{Output Message(s):}
\begin{itemize}
\item \texttt{DGN:PPC}
\end{itemize}
\end{itemize}
EX: PPC
OP: DMQ–CM
RST: PPC

Input Appendix(es):

APP: CM–IM–REASON
APP: RANGES
STP:PPPLK

Software Release: 5E16(2) and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Requests that the currently executing maintenance action on an optical interface unit (OIU) point to point protocol link (PPPLK) be stopped.

2. FORMAT

STP: [a,]PPPLK=b-c-d-e-f;

3. EXPLANATION OF MESSAGE

a = Action being stopped (default is the currently executing action). Valid value(s):
   RMV = Remove.
   RST = Restore.

b = Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

c = OIU number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

d = Protection group (PG) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

e = Optical carrier - level 3 concatenated (OC3C) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

f = Synchronous transport signal - level 3 concatenated (STS3C) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

NG = No good. The message form is valid, but the request conflicts with current status.

PF = Printout follows. Followed by the STP:PPPLK output message.

RL = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

Input Message(s):

ABT:PPPLK
RMV:PPPLK
RST:PPPLK
Output Message(s):

STP : PPPLK

Input Appendix(es):

APP : RANGES

Other Manual(s):
235-105-110   System Maintenance Requirements and Tools
235-105-220   Corrective Maintenance

MCC Display Page(s):
1494   OIU PKT STATUS
**1. PURPOSE**

Requests that actions on the protocol circuit (PROTO) at the specified location be stopped.

**2. FORMAT**

\[ \text{STP:}\{a,\}\text{PROTO}=b-c-d; \]

**3. EXPLANATION OF MESSAGE**

- **a**: Action to be stopped (default is the action currently executing on the PROTO). Valid value(s):
  - DGN = Diagnose.
  - EX = Exercise.
  - RMV = Remove.
  - RST = Restore.

- **b**: Switching module number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

- **c**: Unit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

- **d**: Service group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

**4. SYSTEM RESPONSE**

- **NG**: No good. The request has been denied. The message form is valid, but the request conflicts with current status.

- **PF**: Printout follows. Followed by the STP:PROTO output message.

- **RL**: Retry later. The request cannot be executed now due to unavailable system resources.

**5. REFERENCES**

Input Message(s):

- DGN:PROTO
- EX:PROTO
- RMV:PROTO
- RST:PROTO

Output Message(s):
STP:PROTO

Input Appendix(es):

APP: RANGES
STP:PSUCOM-A

Software Release: 5E14 - 5E15
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Requests that actions on a packet switch unit (PSU) common controller (COM) be stopped.

Note: Execution of this message may require further action to put the unit into a sane state. Refer to the References section of this message.

2. FORMAT

STP: [a,] PSUCOM=c-d-e[-f];

3. EXPLANATION OF MESSAGE

a = Action to be stopped. Valid value(s):
   DGN = Diagnose.
   EX = Exercise.
   RMV = Remove.
   RST = Restore.

Note: The default is the action currently executing on the PSU.

c = Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

d = PSU number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

e = Service group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

f = Protocol handler number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

NG = No good. The message form is valid, but the request conflicts with current status.

PF = Printout follows. Followed by the STP:PSU output message.

5. REFERENCES

Input Message(s):
DGN: PSU
EX: PSU
OP: DMQ
OP: OOS
RMV: PSU
RST: PSU COM
RST: PSU PH

Output Message(s):

STP: PSU

Input Appendix(es):

APP: RANGES

MCC Display Page(s):

PSU SHELF
PSU NETWORK
1. PURPOSE

Requests that actions on a packet switch unit (PSU) common controller (COM) be stopped.

Note: Execution of this message may require further action to put the unit into a sane state. Refer to the References section of this message.

2. FORMAT

STP:\{a,\}PSUCOM=c-d-e[-f];

3. EXPLANATION OF MESSAGE

a  = Action to be stopped. Valid value(s):
    DGN  = Diagnose.
    EX  = Exercise.
    RMV  = Remove.
    RST  = Restore.

Note: The default is the action currently executing on the PSU.

c  = Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

d  = PSU number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

e  = Service group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

f  = Protocol handler number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

NG  = No good. The message form is valid, but the request conflicts with current status.

PF  = Printout follows. Followed by the STP:PSU output message.

5. REFERENCES

Input Message(s):
DGN: PSU
EX: PSU
OP: DMQ
OP: OOS
RMV: PSU
RST: PSUCOM
RST: PSUPH

Output Message(s):
  STP: PSU

Input Appendix(es):
  APP: RANGES

MCC Display Page(s):
  PSU SHELF
  PSU NETWORK
STP:PSUPH-A

**Software Release:** 5E14 - 5E15  
**Command Group:** SM  
**Application:** 5  
**Type:** Input

1. **PURPOSE**

Requests that actions on a packet switch unit (PSU) protocol handler (PH) be stopped.

Note: Execution of this message may require further action to put the unit into a sane state. Refer to the References section of this message.

2. **FORMAT**

   STP: [a,] PSUPH = c-d-e [-f];

3. **EXPLANATION OF MESSAGE**

   a = Action to be stopped. Valid value(s):
   - DGN = Diagnose.
   - EX = Exercise.
   - RMV = Remove.
   - RST = Restore.

   Note: The default is the action currently executing on the PSU.

   c = Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

   d = PSU number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

   e = Shelf number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

   f = Protocol handler number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. **SYSTEM RESPONSE**

   NG = No good. The message form is valid, but the request conflicts with current status.

   PF = Printout follows. Followed by the STP:PSU output message.

5. **REFERENCES**

Input Message(s):
DGN: PSU
EX: PSU
OP: DMQ
OP: OOS
RMV: PSU
RST: PSUCOM
RST: PSUPH

Output Message(s):
STP: PSU

Input Appendix(es):
APP: RANGES

MCC Display Page(s):
PSU SHELF
PSU NETWORK
**STP:PSUPH-B**

**Software Release:** 5E16(1) and later  
**Command Group:** SM  
**Application:** 5  
**Type:** Input  

1. PURPOSE

Requests that actions on a packet switch unit (PSU) protocol handler (PH) be stopped.

Note: Execution of this message may require further action to put the unit into a sane state. Refer to the References section of this message.

2. FORMAT

STP:[a,]PSUPH=c-d-e[-f];

3. EXPLANATION OF MESSAGE

a  
= Action to be stopped. Valid value(s):
  DGN  = Diagnose.  
  EX  = Exercise.  
  RMV  = Remove.  
  RST  = Restore.

Note: The default is the action currently executing on the PSU.

c  
= Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

d  
= PSU number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

e  
= Shelf number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

f  
= Protocol handler number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

NG  
= No good. The message form is valid, but the request conflicts with current status.

PF  
= Printout follows. Followed by the STP:PSU output message.

5. REFERENCES

Input Message(s):
DGN: PSU
EX: PSU
OP: DMQ
OP: OOS
RMV: PSU
RST: PSUCOM
RST: PSUPH

Output Message(s):

STP: PSU

Input Appendix(es):

APP: RANGES

MCC Display Page(s):

PSU SHELF
PSU NETWORK
STP:PSUPIDB

Software Release: 5E14 and later  
Command Group: SM  
Application: 5  
Type: Input

1. PURPOSE

Requests that actions on a packet switch unit (PSU) shelf peripheral interface data bus (PIDB) be stopped.

2. FORMAT

STP: [a,]PSUPIDB=b-c-d-e;

3. EXPLANATION OF MESSAGE

a = Action to be stopped (the default action is the action currently executing on the PSU PIDB). Valid value(s):
   RMV = Remove.
   RST = Restore.

b = Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

c = PSU number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

d = Shelf number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

e = PIDB number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

NG = No good. The request has been denied. The message is valid but the request conflicts with current status.

PF = Printout follows. Followed by the STP:PSUPIDB output message.

RL = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

Input Message(s):

   OP:OOS  
   RMV:PSUPIDB  
   RST:PSUPIDB
Output Message(s):

STP: PSUP IDB

Input Appendix(es):

APP: RANGES
**STP:QGP**

Software Release: 5E14 and later  
Command Group: CM  
Application: 5  
Type: Input  

1. **PURPOSE**

Requests that actions on a quad-link packet switch (QLPS) gateway processor (QGP) be stopped (STP).

2. **FORMAT**

\[ \text{STP:}[a,]QGP=b-c; \]

3. **EXPLANATION OF MESSAGE**

- **a** = Action to be stopped. This input message will stop all requests with the specified action either waiting or executing for the QGP; if no action is given, all requests for the QGP are stopped. Valid value(s):  
  - DGN = Diagnose. (Not valid for CM3)  
  - EX = Exercise. (Not valid for CM3)  
  - RST = Restore.  
  - blank = Any or all the above actions currently waiting or executing on the QGP.

- **b** = Message switch (MSGS) side number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

- **c** = QGP number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. **SYSTEM RESPONSE**

- **NG** = No good. The request has been denied. The message syntax is valid but the request could not be processed. Refer to the APP:CM-IM-REASON appendix in the Appendixes section of the Input Messages manual for a list of possible reasons for denying the request.

- **PF** = Printout follows. Followed by the STP:QGP output message.

5. **REFERENCES**

Input Message(s):

- DGN:QGP  
- EX:QGP  
- OP:DMQ-CM-SM  
- RST:QGP

Output Message(s):

- DGN:QGP
STP:QLPS

Software Release: 5E14 and later
Command Group: CM
Application: 5
Type: Input

1. PURPOSE

Requests that actions on a quad-link packet switch (QLPS) be stopped (STP).

2. FORMAT

STP: [a,]QLPS=b-c;

3. EXPLANATION OF MESSAGE

a = Action to be stopped. This input message will stop all requests with the specified action either waiting or executing for the QLPS; if no action is given, all requests for the QLPS are stopped. Valid value(s):
   DGN = Diagnose.
   EX = Exercise.
   RST = Restore.
   blank = Any or all of the above actions currently waiting or executing on the QLPS.

b = Office network and timing complex (ONTC) side number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

c = QLPS network number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

NG = No good. The request has been denied. The message syntax is valid but the request could not be processed. Refer to the APP:CM-IM-REASON appendix in the Appendixes section of the Output Messages manual for a list of possible reasons for denying the request.

PF = Printout follows. Followed by the STP:QLPS output message.

5. REFERENCES

Input Message(s):
   DGN:QLPS
   EX:QLPS
   OP:DMQ-CM-SM
   RST:QLPS
   STP:QLPS

Output Message(s):
   DGN:QLPS
EX: QLPS
OP: DMQ-CM
RST: QLPS
STP: QLPS

Input Appendix(es):

APP: CM-IM-REASON
APP: RANGES
1. PURPOSE

Requests that the specified actions on the recorded announcement function (RAF) unit be stopped.

2. FORMAT

STP: [a,] RAF=b-c;

3. EXPLANATION OF MESSAGE

a = Action to be stopped (default is the action currently executing on the RAF). Valid value(s):
   DGN = Diagnose.
   EX  = Exercise.
   RMV = Remove.
   RST = Restore.

b = Switching module (SM) number.

c = RAF unit number. Refer to the APP: RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

NG = No good. The request has been denied because it conflicts with current equipment status. May also include:
   - SM DOES NOT EXIST = The requested SM does not exist in the system.
   - SM UNEQUIPPED = The SM specified in the request is unequipped.
   - UNIT DOES NOT EXIST = The requested unit does not exist in the system.

PF = Printout follows. The request has been accepted. Followed by an STP: RAF output message.

RL = Retry later. The request cannot be executed now due to unavailable system resources. The message may be entered again later.

5. REFERENCES

Input Message(s):

ABT: RAF
DGN: RAF
EX: RAF
RMV: RAF
RST: RAF
Output Message(s):

STP : RAF

Input Appendix(es):

APP : RANGES
STP:RAU

Software Release: 5E14 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE
Requests that maintenance actions on the remote switching module (RSM) alarm (RAU) circuit be stopped.

2. FORMAT

STP: [a, ]RAU=b;

3. EXPLANATION OF MESSAGE

a = Action to be stopped (default is the action currently executing on the RAU). Valid value(s):
   DGN = Diagnose.
   EX  = Exercise.
   RMV = Remove.
   RST = Restore.

b = Switching module number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

NG = No good. Request denied because of a conflict with current status.

PF = Printout follows. Followed by the STP:RAU output message.

5. REFERENCES

Input Message(s):
   DGN:RAU
   EX:RAU
   RMV:RAU
   RST:RAU

Output Message(s):
   STP:RAU

Input Appendix(es):
   APP:RANGES
**STP:RCHIST**

**Software Release:** 5E14 and later  
**Command Group:** RCV  
**Application:** 5  
**Type:** Input

1. **PURPOSE**

Requests that a previously entered REPT:RCHIST input message be stopped.

2. **FORMAT**

```
STP:RCHIST[,CLERK=a];
```

3. **EXPLANATION OF MESSAGE**

\*a\*  
= Clerk name, consisting of no more than eight American standard code for information interchange (ASCII) characters excluding blanks and special characters.

4. **SYSTEM RESPONSE**

**PF**  
= Printout follows. The request was accepted. Followed by an STP:RCHIST output message.

5. **REFERENCES**

**Input Message(s):**

```
OP:RCHIST  
REPT:RCHIST
```

**Output Message(s):**

```
OP:RCHIST  
REPT:RCHIST  
STP:RCHIST
```

**Other Manual(s):**

Where ‘x’ is the release-specific version of the document.  
235-105-24  
Software Release Retrofit
STP:RCL

Software Release: 5E14 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Requests that maintenance actions on an inter-remote switching module (RSM) communication link (RCL) be stopped.

2. FORMAT

STP: [a,] RCL = b-c-d-e;

3. EXPLANATION OF MESSAGE

a = Action being stopped (default is the action currently executing on the RCL). Valid value(s):
   RMV = Remove.
   RST = Restore.

b = Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

c = Digital line and trunk unit (DLTU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

d = Inter-RSM communication link digital facilities interface (CDFI) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

e = Facility (FAC) number. The FAC number is the T1 facility number on a CDFI. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

NG = No good. The message syntax is valid, but the request conflicts with current system or equipment status. May also include:
   - NOT STARTED UNIT IN GROWTH STATE
   - SM DOES NOT EXIST
   - SM UNEQUIPPED
   - UNIT DOES NOT EXIST

PF = Printout follows. Followed by the STP:RCL output message.

RL = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

Input Message(s):
   RMV: RCL
RST: RCL

Output Message(s):

STP: RCL

Input Appendix(es):

APP: RANGES

Other Manual(s):
235-105-220  Corrective Maintenance
STP:RCLK

Software Release: 5E14 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Requests that maintenance actions on the remote clock (RCLK) circuit be stopped. The unit is left out-of-service.

2. FORMAT

STP: [a,]RCLK=b-c;

3. EXPLANATION OF MESSAGE

a = Action to be stopped (default is the action currently executing on the RCLK):
   DGN = Diagnose.
   EX  = Exercise.
   RMV = Remove.
   RST = Restore.

b = Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

c = RCLK side. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

NG = No good. May also include:
   - NOT STARTED UNIT IN GROWTH STATE
   - SM DOES NOT EXIST
   - SM UNEQUIPPED
   - UNIT DOES NOT EXIST

PF = Printout follows. Followed by the STP:RCLK output message.

RL = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

Input Message(s):
   DGN:RCLK
   EX:RCLK
   RMV:RCLK
   RST:RCLK

Output Message(s):
STP: RCLK

Input Appendix(es):
APP: RANGES

MCC Display Page(s):
(RSM RCU)
STP:RCRLS

Software Release: 5E14 and later
Command Group: RCV
Application: 5
Type: Input

1. PURPOSE
Requests that a previously entered EXC:RCRLS input message be stopped.

2. FORMAT

STP:RCRLS[,CLERK=a];

3. EXPLANATION OF MESSAGE

Upon completion of this input message, all recent changes applied before this input message was entered remain applied.

a = Clerk name, consisting of no more than eight (8) ASCII characters excluding blanks and special characters.

4. SYSTEM RESPONSE

PF = Printout follows. The request was accepted. Followed by an STP:RCRLS output message.

5. REFERENCES

Input Message(s):

EXC:RCRLS
OP:RCHIST

Output Message(s):

EXC:RCRLS
OP:RCHIST
STP:RCHIST
STP:RCRLS

Other Manual(s):

Where 'x' is the release-specific version of the document.
235-105-24x Software Release Retrofit
STP:RCRMV

Software Release: 5E14 and later
Command Group: RCV
Application: 5
Type: Input

1. PURPOSE

Requests that a previously entered EXC:RCRMV input message for a delayed release clerkfile be stopped.

2. FORMAT

STP:RCRMV[,CLERK=a];

3. EXPLANATION OF MESSAGE

Upon successful completion of this message, no recent changes are removed from the clerkfile being processed by the EXC:RCRMV input message.

a = Clerk name, consisting of no more that eight (8) ASCII characters excluding blanks and special characters.

4. SYSTEM RESPONSE

PF = Printout follows. The request was accepted. Followed by an STP:RCRMV output message.

5. REFERENCES

Input Message(s):

EXC:RCRMV
OP:RCHIST

Output Message(s):

EXC:RCRMV
OP:RCHIST
STP:RCHIST
STP:RCRMV

Other Manual(s):

Where 'x' is the release-specific version of the document.
235-105-24x Software Release Retrofit
**1. PURPOSE**

Requests that a given active remote digital test access (RDTA) session be stopped.

The active RDTA session will be terminated based on the session number returned in the EXC RDTA output message after the connection was setup. The session number must either be known by the user attempting maintenance or it can be found by exercising the OP:RDTA input message to receive information on all sessions (SES=ALL option). This session number input verifies the user's knowledge of the session's status to the switch when changes are made affecting the session.

**2. FORMAT**

```
STP:RDTA,SES=a;
```

**3. EXPLANATION OF MESSAGE**

- **a** = Session number of the active RDTA connection to be stopped.

**4. SYSTEM RESPONSE**

- **PF** = Printout follows. The request has been accepted. Followed by the STP:RDTA output message.
- **RL** = Retry later. May also include:
  - **FAILED TO CREATE PROCESS** = A system error has occurred. Refer to the TECHNICAL ASSISTANCE portion of the INTRODUCTION section of the Input Messages manual.
  - **TOO MANY PROCESSES ACTIVE** = The request has been denied, probably due to system load.

**5. REFERENCES**

**Input Message(s):**

- OP:RDTA
- EXC:RDTA
- UPD:RDTA
- VFY:RDTA

**Output Message(s):**

- EXC:RDTA
- OP:RDTA
- STP:RDTA
- UPD:RDTA
- VFY:RDTA
STP:REX-CM-SM
Software Release: 5E14 and later
Command Group: MAINT
Application: 5
Type: Input

1. PURPOSE
Requests that either one or all valid test types of routine exercise (REX) of the hardware be stopped in the communication module (CM) and all switching modules (SMs) or in the CM or in a range of SMs.

2. FORMAT
STP:REX[,CM|,SM=a[&b]][,c];

3. EXPLANATION OF MESSAGE
a = Number of the SM or lower limit of a range of SM numbers. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
b = Upper limit of a range of SM numbers. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
c = REX test type to be stopped (default is to stop all valid test types). Valid value(s):
  DGN = Stop diagnostic exercise
  ELS = Stop electronic loop segregation tests. This is not a valid test type for the CM.
  FAB = Stop fabric exerciser tests of grids. This is not a valid test type for the CM.

NOTE: If neither CM nor SM is specified, the default is to stop exercise hardware in the CM and all SMs.

4. SYSTEM RESPONSE
NG = No good. The request was not a valid entry.
PF = Printout follows. Request is valid and output message will follow.
RL = Retry later. SM is in an abnormal state. The request cannot be executed now.

5. REFERENCES
Input Message(s):
  EXC:REX-CM-SM
Output Message(s):
  EXC:REX
Input Appendix(es):
**STP:RLI**

*Software Release:* 5E14 and later  
*Command Group:* SM  
*Application:* 5  
*Type:* Input

1. **PURPOSE**

Requests that maintenance actions be stopped on the remote switching module (RSM) remote link interface (RLI) circuit.

2. **FORMAT**

```
STP:[a,]RLI=b-c;
```

3. **EXPLANATION OF MESSAGE**

- **a** = Action to be stopped (default is the action currently executing on the RLI). Valid value(s):
  - **DGN** = Diagnose.
  - **EX** = Exercise.
  - **RMV** = Remove.
  - **RST** = Restore.

- **b** = Switching module number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

- **c** = RLI number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. **SYSTEM RESPONSE**

- **NG** = No good. Request denied because of a conflict with current status.

- **PF** = Printout follows. Followed by the STP:RLI output message.

5. **REFERENCES**

**Input Message(s):**

- DGN:RLI
- EX:RLI
- RMV:RLI
- RST:RLI

**Output Message(s):**

- STP:RLI

**Input Appendix(es):**

- APP:RANGES
**STP:RMV-RT**

*Software Release:* 5E14 and later  
*Command Group:* SM  
*Application:* 5  
*Type:* Input

### 1. PURPOSE

Requests that the actions on a remote terminal (RT) for the specified unit circuit be stopped. This message is applicable for TR303 RTs terminating on an integrated digital carrier unit (IDCU) or a digital networking unit -synchronous optical network (DNU-S).

### 2. FORMAT

```
STP:RMV RT,a;
```

### 3. EXPLANATION OF MESSAGE

- `a` = Unit to be stopped. Valid value(s):
  - `EOC=b–c`
  - `TMC=b–d`

- `b` = Site identification number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

- `c` = EOC number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

- `d` = TMC number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

### 4. SYSTEM RESPONSE

- `NG` = No good. The request has been denied because of a conflict with current status.

- `PF` = Printout follows. Followed by the corresponding output message.

- `RL` = Retry later. The request cannot be executed now due to unavailable system resources.

### 5. REFERENCES

- **Input Message(s):**
  - RMV:RT–EOC
  - RMV:RT–TMC
  - RST:RT–EOC
  - RST:RT–TMC

- **Output Message(s):**
  - STP:RT–EOC
STP : RT-TMC

Input Appendix(es):

APP : RANGES

Other Manual(s):
235-105-110  System Maintenance Requirements and Tools
235-105-220  Corrective Maintenance

MCC Display Page(s):
1660,xxxx    TR303 REMOVTÉ TERMINAL
188xyy       IDCU REMOVTÉ TERMINAL
STP:RPCU

**Software Release:** 5E14 and later  
**Command Group:** TRKLN  
**Application:** AEWNC  
**Type:** Input

1. **PURPOSE**

Requests that the printing of alarmed radio port controller units (RPCUs) by an OP:RPCU input message be stopped.

2. **FORMAT**

   STP:RPCU,ALARM;

3. **EXPLANATION OF MESSAGE**

   No variables.

4. **SYSTEM RESPONSE**

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>NG</td>
<td>The input message is not valid.</td>
</tr>
<tr>
<td>PF</td>
<td>Printout follows. The request has been accepted. Followed by the STP:RPCU output message.</td>
</tr>
<tr>
<td>RL</td>
<td>Retry later. May also include:</td>
</tr>
<tr>
<td></td>
<td>- FAILED TO CREATE PROCESS A system error has occurred in executing the STP:RPCU input message.</td>
</tr>
</tbody>
</table>

5. **REFERENCES**

   **Input Message(s):**
   
   OP:RPCU

   **Output Message(s):**
   
   STP:RPCU  
   OP:RPCU

   **Other Manual(s):**
   
   230-701-100  *Air Extension*<sup>SM</sup> *Reference Manual*  
   230-701-120  *Air Extension*<sup>SM</sup> *User's Guide*
STP:RRCLK

Software Release: 5E14 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Requests that maintenance actions be stopped on a remote integrated services line unit (RISLU) remote clock circuit pack (RRCLK).

2. FORMAT

STP: [a, ]RRCLK=b-c-d;

3. EXPLANATION OF MESSAGE

a  = Action to be stopped. Valid value(s):
  DGN  = Diagnose.
  EX   = Exercise.
  RMV  = Remove.
  RST  = Restore.
  SW   = Switch.

  NOTE: The default is the action currently executing on the RRCLK.

b  = Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

c  = RISLU number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

d  = RRCLK number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

NG  = No good. May also include:
  CONFLICT WITH UNIT STATE
  SM DOES NOT EXIST
  SM UNEQUIPPED
  UNIT DOES NOT EXIST

PF  = Printout follows. Followed by the STP:RRCLK output message.

RL  = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

Input Message(s):
DGN: RRCLK
EX: RRCLK
RMV: RRCLK
RST: RRCLK
SW: RRCLK

Output Message(s):
STP: RRCLK

Input Appendix(es):
APP: RANGES
STP:RST-RT

Software Release: 5E14 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Requests that the actions on a remote terminal (RT) for the specified unit circuit be stopped. This message is applicable for TR303 RTs terminating on an integrated digital carrier unit (IDCU) or a digital networking unit - synchronous optical network (DNU-S).

2. FORMAT

STP:RST RT,a;

3. EXPLANATION OF MESSAGE

a  = Unit to be stopped. Valid value(s):
   EOC=b–c
   TMC=b–d

b  = Site identification number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

c  = EOC number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

d  = TMC number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

NG  = No good. The request has been denied because of a conflict with current status.

PF  = Printout follows. Followed by the corresponding output message.

RL  = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

Input Message(s):
RMV:RT–EOC
RMV:RT–TMC
RST:RT–EOC
RST:RT–TMC

Output Message(s):
STP:RT–EOC
STP:RST-TRK-A

Software Release: 5E15 only
Command Group: TRKLN
Application: 5
Type: Input

1. PURPOSE

Requests that a RST:TRK request be stopped and the trunk(s) be put back into an appropriate out-of-service status. The same identifier used in the original RST:TRK input command must be used with this command.

2. FORMAT

STP:RST,TRK,{a|PID=b-c}[,UCL]

3. EXPLANATION OF MESSAGE

Note: Refer to the Acronym section of the Input Messages manual for the full expansion of acronyms shown in the format.

UCL = Execute the removal unconditionally. All stable calls will be disconnected (traffic release).

a = Equipment number or identifier. Valid value(s): .nf DEN=d-e-f-g ILEN=d-h-i-j INEN=d-k-i-j NEN=d-k-l-a1-m-n-b1-o PLTEN=d-c2-d2-e2-f2 PRIGRP=p PSUEN=d-q-r-s-t TEN=d-u-v-w-x TG=y TKGMN=y-z .fi

b = Task process number associated with the task.

c = A uniqueness qualifier to further identify the task.

Note: The PID and UNIQ values can be obtained from the OP:JOBSTATUS input message.

d = SM number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

e = Digital line and trunk unit (DLTU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

f = Digital facility interface (DFI) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

g = Channel number or ALL. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

h = Integrated digital carrier unit (IDCU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

i = Remote terminal (RT) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

j = RT line number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

k = DNU-S number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
l = Data group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

m = Synchronous transport signal (STS) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

n = Virtual tributary 1.5 (VT1.5) group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

o = Digital signal level 0 (DS0) number or ALL. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

p = Primary rate interface (PRI) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

q = PSU unit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

r = PSU shelf number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

s = PSU channel group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

t = Line group number or ALL. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

u = Trunk unit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

v = Service group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

w = Channel board number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

x = Circuit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

y = Trunk group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

z = Trunk member number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

a¹ = Signalling terminating equipment (STE) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

b¹ = VT1.5 member number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

c¹ = Peripheral control and timing line and trunk unit (PLTU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

d¹ = PCT facility interface (PCTFI) number. Refer to the APP:RANGES appendix in the Appendixes
section of the Input Messages manual.

e\textsuperscript{1} = Tributary number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

f\textsuperscript{1} = Channel number or ALL. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

NA = Not available. May also include:
- FEATURE NOT LOADED = The special feature is not turned on.

PF = The request has been accepted and the STP:RST output message follows.

5. REFERENCES

Input Message(s):

RST:TRK
OP:JOBSTATUS

Output Message(s):

STP:RST
RMV:TRK
RST:TRK
OP:JOBSTATUS

Input Appendix(es):

APP:RANGES
STP:RST-TRK-B

Software Release: 5E16(1) and later
Command Group: TRKLN
Application: 5
Type: Input

1. PURPOSE

Requests that a RST:TRK request be stopped and the trunk(s) be put back into an appropriate out-of-service status. The same identifier used in the original RST:TRK input message must be used with this one.

2. FORMAT

STP:RST,TRK,{a|PID=b-c}[,UCL]

3. EXPLANATION OF MESSAGE

Refer to the Acronym section of the Input Messages manual for the full expansion of acronyms shown in the format.

UCL = Equipment number or identifier. Valid value(s):

- ATMPP=d-q-i^{1-j}^{1}
- DEN=d-e-f-g
- ILEN=d-h-i-j
- INEN=d-k-i-j
- NEN=d-k-l-ai^{1-m-n-b}^{b-o}
- OIUEN=d-k^{1-1}-m^{1-n}^{1}-n-b^{1}^{1-f}
- PLTEN=d-c^{1-d^{1}-e^{1-f}^{1}}
- PRIGRP=p
- PSUEN=d-q-r-s-t
- TEN=d-u-v-w-x
- TG=y
- TKGMN=y-z
- VTRK=d-g^{1-h}^{1}

b = Task process number associated with the task.

c = A uniqueness qualifier to further identify the task. The PID and UNIQ values can be obtained from the OP:JOBSTATUS input message.

d = SM number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

e = Digital line and trunk unit (DLTU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

f = Digital facility interface (DFI) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

g = Channel number or ALL. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
h = Integrated digital carrier unit (IDCU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

i = Remote terminal (RT) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

j = RT line number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

k = Digital network unit - synchronous optical network (SONET) (DNU-S) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

l = Data group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

m = Synchronous transport signal (STS) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

n = Virtual tributary 1.5 group (VTGRP) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

o = Digital signal level 0 (DS0) number or ALL. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

p = Primary rate interface (PRI) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

q = PSU unit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

r = PSU shelf number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

s = PSU channel group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

t = Line group number or ALL. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

u = Trunk unit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

v = Service group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

w = Channel board number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

x = Circuit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

y = Trunk group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

z = Trunk member number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
a¹ = SONET terminating equipment (STE) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

b¹ = Virtual tributary 1.5 member (VTMEM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

c¹ = Peripheral control and timing line and trunk unit (PLTU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

d¹ = PCT facility interface (PCTFI) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

e¹ = Tributary number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

f¹ = Channel number or ALL. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

g¹ = Virtual trunk facility number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

h¹ = Virtual trunk channel number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

i¹ = Link number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

j¹ = Virtual connection identifier (VCID) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

k¹ = Office interface unit (OIU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

l¹ = Protection group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

m¹ = OC-3 STE number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

n¹ = STS level 1 (STS-1) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

NA = Not available. May also include:
- FEATURE NOT LOADED = The special feature is not turned on.

PF = Printout follows. The request has been accepted and the STP:RST output message follows.

5. REFERENCES

Input Message(s):
RST: TRK
OP: JOBSTATUS

Output Message(s):

STP: RST
RMV: TRK
RST: TRK
OP: JOBSTATUS

Input Appendix(es):

APP: RANGES
STP:RTFAC

Software Release: 5E14 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Requests that actions on a remote terminal (RT) facility (FAC) circuit be stopped. This message is applicable for TR303 RTs (that is, AT&T Series 5 RTs running Feature Package 303G) terminating on a digital networking unit - synchronous optical network (DNU-S). This is an alternative way to address a DS1SFAC facility.

2. FORMAT

STP: [a,] RTFAC=b-c;

3. EXPLANATION OF MESSAGE

a = Action to be stopped (the default action is the action currently executing on the RT FAC). Valid values are:
   RMV = Remove.
   RST = Restore.

b = Site identification number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

c = RT FAC number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

NG = No good. The request has been denied. The message is valid but the request conflicts with current status.

PF = Printout follows. Followed by the STP:RTFAC output message.

RL = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

Input Message(s):
   RMV:RTFAC
   RST:RTFAC

Output Message(s):
   STP:RTFAC

Input Appendix(es):
APP : RANGES

Other Manual(s):
235-105-110  System Maintenance Requirements and Tools
235-105-220  Corrective Maintenance

MCC Display Page(s):

1511.x.yy (DNUS STS MAINTENANCE)
1512.x.yy (DNUS STS DS1 APPLICATION)
1660.xxxx (TR303 REMOTE TERMINAL)
1. PURPOSE
Requests that currently running actions be stopped gracefully on the revertive pulsing transceiver (RVPT) at the specified location.

2. FORMAT

STP: [e, ]RVPT=a-b-c-d;

3. EXPLANATION OF MESSAGE

a = Switching module number. Refer to the APP: RANGES appendix in the Appendixes section of the Input Messages manual.
b = Unit number. Refer to the APP: RANGES appendix in the Appendixes section of the Input Messages manual.
c = Service group. Refer to the APP: RANGES appendix in the Appendixes section of the Input Messages manual.
d = Circuit number. Refer to the APP: RANGES appendix in the Appendixes section of the Input Messages manual.
e = The action to be stopped. Valid value(s):
   DGN = Diagnose.
   EX  = Exercise.
   RMV = Remove.
   RST = Restore.

4. SYSTEM RESPONSE

NG = No good. The request has been denied. The message form is valid, but the request conflicts with current status.
PF = Printout follows. Followed by the STP: RVPT output message.
RL = Repeat later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

Input Message(s):

DGN: RVPT
EX: RVPT
RMV: RVPT
RST: RVPT
Output Message(s):

   STP : RVPT

Input Appendix(es):

   APP : RANGES
STP:S7RPT

Software Release: 5E15 and later
Command Group: CCS
Application: 5
Type: Input

1. PURPOSE
Terminates an observation scope for all selected blocking, reset, unblocking, continuity, circuit query, and circuit validation CCSMTCE messages.

It turns off all selected blocking, reset, unblocking, continuity, circuit query, and circuit validation messages for trunks assigned to the specified origination point code (OPC), destination point code (DPC), and optional circuit identification code (CIC).

This input message has no affect if the ALW:S7RPT input message has not been entered.

2. FORMAT

STP:S7RPT,OPC=a,DPC=b[,CIC=c];

3. EXPLANATION OF MESSAGE

a = OPC identification.
b = DPC identification.
c = CIC identification.

4. SYSTEM RESPONSE

NG = No good. May also include:
- FEATURE NOT AVAILABLE = The input message cannot be used in this office. The office should be upgraded.
- S7RPT NOT ALLOWED = The ALW:S7RPT input message must be issued for STP:S7RPT input message to have any affect.
- HARDWARE NOT OPERATIONAL = The office does not have SS7 trunks.
- PARAMETER COMBINATION ERROR = The input message parameter combination is wrong.
- OBSERVATION SCOPE NOT ACTIVE = No observation scopes are active.

PF = Printout follows. Followed by the EXC:S7RPT output message.

5. REFERENCES

Input Message(s):

ALW:S7RPT
INH:S7RPT
EXC:S7RPT
OP:S7RPT
Output Message(s):

STP:S7RPT
STP:S7XCHK

Software Release: 5E15 and later
Command Group: MAINT
Application: 5
Type: Input

1. PURPOSE

Request that the active PCI7GR cross check request be stopped. Both demand PCI7GR cross check, initiated by an EXC:S7XCHK request, and periodic automatic cross check administered by RC/V View 8.15 (CCS OFFICE PARAMETERS) can be stopped by this input message.

2. FORMAT

STP:S7XCHK[,TYPE=a];

3. EXPLANATION OF MESSAGE

a  = Demand PCI7GR cross check. Valid value(s):

PCI7GR

4. SYSTEM RESPONSE

NG  = No good. The request has been denied. Valid value(s):
  - PCI7GR CROSS CHECK NOT RUNNING = Can not stop since no PCI7GR cross check is currently running.

OK  = The message has been accepted.

5. REFERENCES

Input Message(s):

ALW:S7XCHK
EXC:S7XCHK
INH:S7XCHK
OP:S7XCHK

Output Message(s):

EXC:S7XCHK

Input Appendix(es):

APP:RANGES

RC/V View(s):
8.15 CCS OFFICE PARAMETERS
STP:SAS

Software Release: 5E14 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Requests that the specified actions on the service announcement system (SAS) unit be stopped.

2. FORMAT

STP:[a,]SAS=b-c;

3. EXPLANATION OF MESSAGE

a = Action to be stopped (default is the action currently executing on the SAS). Valid value(s):
   DGN = Diagnose.
   EX = Exercise.
   RMV = Remove.
   RST = Restore.

b = Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

c = SAS unit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

NG = No good. The request has been denied because it conflicts with current equipment status. May also include:
   - SM DOES NOT EXIST = The requested SM does not exist in the system.
   - SM UNEQUIPPED = The SM specified in the request is unequipped.
   - UNIT DOES NOT EXIST = The requested unit does not exist in the system.

PF = Printout follows. The request has been accepted. Followed by the STP:SAS output message.

RL = Retry later. The request cannot be executed now due to unavailable system resources. The message may be entered again later.

5. REFERENCES

Input Message(s):

DGN:SAS
EX:SAS
RMV:SAS
RST:SAS
Output Message(s):

\texttt{STP: SAS}

Input Appendix(es):

\texttt{APP: RANGES}
STP:SCAN

Software Release: 5E14 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE
Requests that actions on the scan scan point board (SCAN) at the specified location be stopped.

2. FORMAT
STP: [a,] SCAN=b-c-d-e;

3. EXPLANATION OF MESSAGE

a = Action to be stopped (default is the action currently executing on the scan point board). Valid value(s):
  DGN = Diagnose.
  EX  = Exercise.
  RMV = Remove.
  RST = Restore.

b = Switching module number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

c = Metallic service unit (MSU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

d = Service group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

e = Board number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

NG = No good. The request has been denied because of a conflict with current status.

PF = Printout follows. Followed by the STP:SCAN output message.

5. REFERENCES

Input Message(s):
  DGN: SCAN
  EX: SCAN
  RMV: SCAN
  RST: SCAN

Output Message(s):
STP: SCAN

Input Appendix(es):

APP: RANGES
**STP:SDFI**

**Software Release:** 5E14 and later  
**Command Group:** SM  
**Application:** 5  
**Type:** Input

1. **PURPOSE**

Requests that actions on a specified SLC®96 digital facility interface (SDFI) be stopped.

2. **FORMAT**

`STP: [a,] SDFI=b-c-d;`

3. **EXPLANATION OF MESSAGE**

   a = Action to be stopped (default is the action currently executing on the SDFI). Valid value(s):
      
      - DGN = Diagnose.
      - EX  = Exercise.
      - RMV = Remove.
      - RST = Restore.

   b = Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

   c = Digital carrier line unit (DCLU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

   d = SDFI number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. **SYSTEM RESPONSE**

   - **NG** = No good. The request has been denied. The message form is valid, but the request conflicts with current status.
   - **PF** = Printout follows. The request was accepted. Followed by an STP:SDFI output message.

5. **REFERENCES**

**Input Message(s):**

- DGN:SDFI
- EX:SDFI
- RMV:SDFI
- RST:SDFI

**Output Message(s):**

- STP:SDFI
Input Appendix(es):

APP : RANGES
STP:SFI

Software Release: 5E14 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE
Requests that maintenance actions be stopped on a digital networking unit - synchronous optical network (DNU-S) synchronous transport signal electrical interface (STSX-1) facility interface (SFI).

2. FORMAT

STP: [a,]SFI=b-c-d-e;

3. EXPLANATION OF MESSAGE

a = Action to be stopped (default is the action currently executing on the SFI). Valid value(s):
   DGN = Diagnose.
   RMV = Remove.
   RST = Restore.

b = Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

c = DNU-S number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

d = Data group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

e = STSX-1 facility interface number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

NG = No good. The message form is valid, but the request conflicts with the current status.

PF = Printout follows. Followed by the STP:SFI output message.

RL = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

Input Message(s):
   DGN:SFI
   RMV:SFI
   RST:SFI

Output Message(s):
STP:SLIM

Software Release: 5E14 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE
Requests that actions on the subscriber line instrument measurement (SLIM) board at a specified location be stopped.

2. FORMAT

STP: [a,] SLIM=b-c-d-e;

3. EXPLANATION OF MESSAGE

a = Action to be stopped. Default is the action currently executing on the SLIM board. Valid value(s):
DGN = Diagnose.
EX = Exercise.
RMV = Remove.
RST = Restore.

b = Switching module number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

c = Metallic service unit (MSU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

d = Service group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

e = Board number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

NG = No good. The request has been denied because of a conflict with current status.

PF = Printout follows. The STP:SLIM output message will follow.

5. REFERENCES

Input Message(s):

DGN:SLIM
EX:SLIM
RMV:SLIM
RST:SLIM

Output Message(s):
STP: SLIM

Input Appendix(es):

APP: RANGES
STP:SS7

Software Release: 5E14 and later
Command Group: TRKLN
Application: 5
Type: Input

1. PURPOSE

Requests that the processing and output of the signaling system 7 (SS7) trunk data request or task, OP:SS7, be stopped. This request stops the output of segment blocks of an OP:SS7 request that have not yet been queued for printing and any further data collection and processing. This request does not stop the output of segment blocks already queued for printing at the time that this stop request is processed.

2. FORMAT

STP:SS7;

3. EXPLANATION OF MESSAGE

None.

4. SYSTEM RESPONSE

PF = Printout follows. The request has been accepted and the task is in the process of being stopped. The output message STP:SS7 from the stopped task follows, or the output message STP:SS7 as a general, non-specific task output message follows.

5. REFERENCES

Input Message(s):

OP:SS7

Output Message(s):

STP:SS7
OP:SS7

Other Manual(s):
235-190-120 Common Channel Signaling Service Features
STP:ST-SCTP

Software Release: 5E16(2) and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Requests that the processing and output of the stream control transmission protocol (SCTP) status be stopped. This request stops the output of segment blocks of an OP:ST-SCTP request that have not yet been queued for printing and any further data collection and processing. This request does not stop the output of segment blocks already queued for printing at the time that this stop request is processed.

Format 1 will stop the output of an OP:ST-SCTP request where NEAREPT=a, DETAIL was requested.

Format 2 will stop the output of an OP:ST-SCTP request where ASSOC ALL was requested.

2. FORMAT

[1] STP:STATUS,SCTP,NEAREPT;


3. EXPLANATION OF MESSAGE

No variables.

4. SYSTEM RESPONSE

PF = Printout follows. The request has been accepted and the task is in the process of being stopped. The STP:ST-SCTP output message follows.

5. REFERENCES

Input Message(s):

OP:ST-SCTP

Output Message(s):

OP:ST-SCTP
STP:ST-SCTP
STP:STS1

Software Release: 5E16(1) and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Requests that the currently executing maintenance action on a synchronous transport signal - level 1 (STS1) be stopped.

2. FORMAT

STP: [a,]STS1=b-c-d-e-f;

3. EXPLANATION OF MESSAGE

a = Action being stopped (default is the currently executing action). Valid value(s):
   RMV = Remove.
   RST = Restore.

b = Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

c = Optical interface unit (OIU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

d = Protection group (PG) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

e = Optical carrier - level 3 (OC3) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

f = STS1 number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

NG = No good. The message form is valid, but the request conflicts with current status.

PF = Printout follows. Followed by the STP:STS1 output message.

RL = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

Input Message(s):

ABT:STS1
RMV:STS1
RST:STS1

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Output Message(s):

STP:STS1

Input Appendix(es):

APP: RANGES

Other Manual(s):
235-105-110 System Maintenance Requirements and Tools
235-105-220 Corrective Maintenance

MCC Display Page(s):
1492 OIU STS1 STATUS
STP:STS3C

Software Release: 5E16(2) and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Requests that the currently executing maintenance action on a synchronous transport signal - level 3 concatenated (STS3C) facility be stopped.

2. FORMAT

STP: [a,]STS3C=b-c-d-e-f;

3. EXPLANATION OF MESSAGE

<table>
<thead>
<tr>
<th>a</th>
<th>Action being stopped (default is the currently executing action). Valid value(s):</th>
</tr>
</thead>
<tbody>
<tr>
<td>RMV</td>
<td>Remove.</td>
</tr>
<tr>
<td>RST</td>
<td>Restore.</td>
</tr>
</tbody>
</table>

| b  | Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual. |
| c  | Optical interface unit (OIU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual. |
| d  | Protection group (PG) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual. |
| e  | Optical carrier - level 3 concatenated (OC3C) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual. |
| f  | STS3C number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual. |

4. SYSTEM RESPONSE

NG  = No good. The message form is valid, but the request conflicts with current status.
PF = Printout follows. Followed by the STP:STS3C output message.
RL = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

Input Message(s):

ABT:STS3C
RMV:STS3C
RST:STS3C
Output Message(s):

STP : ST3S3C

Input Appendix(es):

APP : RANGES

Other Manual(s):
235-105-110  System Maintenance Requirements and Tools
235-105-220  Corrective Maintenance

MCC Display Page(s):
1491  OIU OC3C STATUS
STP:STSFAC-B

Software Release: 5E14 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE
Requests that maintenance actions be stopped on a digital networking unit - synchronous optical network (DNU-S) synchronous transport signal facility (STSFAC).

2. FORMAT
STP:[a,]STSFAC=b-c-d-e-f;

3. EXPLANATION OF MESSAGE
a = Action to be stopped (default is the action currently executing on the STSFAC). Valid value(s):
   RMV = Remove.
   RST = Restore.

b = Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

c = Digital Networking Unit - SONET (DNU-S) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

d = Data group (DG) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

e = SONET Termination Equipment (STE) facility number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

f = Synchronous Transport Signal (STS) facility number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE
NG = No good. The message form is valid, but the request conflicts with the current status.
PF = Printout follows. Followed by the STP:STSFAC output message.
RL = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES
Input Message(s):
RMV:STSFAC
RST:STSFAC
Output Message(s):

    STP : STSFAC

Input Appendix(es):

    APP : RANGES

MCC Display Page(s):

    1511 (DNUS STS MAINTENANCE)
STP:TAC

Software Release: 5E14 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE
Requests that actions on the trunk and access (TAC) circuit at the specified location be stopped.

2. FORMAT
STP: [a,] TAC=b-c-d;

3. EXPLANATION OF MESSAGE

a = Action to be stopped (default is the action currently executing on the TAC circuit). Valid value(s):
   DGN = Diagnose.
   EX  = Exercise.
   RMV = Remove.
   RST = Restore.

b = Switching module number. Refer to the APP: RANGES appendix in the Appendixes section of the Input Messages manual.

c = Trunk unit number. Refer to the APP: RANGES appendix in the Appendixes section of the Input Messages manual.

d = Service group number. Refer to the APP: RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

NG = No good. The request has been denied because of a conflict with current status.

PF = Printout follows. Followed by the STP:TAC output message.

5. REFERENCES

Input Message(s):
   DGN:TAC
   EX:TAC
   RMV:TAC
   RST:TAC

Output Message(s):
   STP:TAC

Input Appendix(es):
APP : RANGES
1. PURPOSE
Requests that actions on the analog trunk specified by the trunk equipment number (TEN) be stopped.

2. FORMAT
STP: [a,] TEN=b-c-d-e-f;

3. EXPLANATION OF MESSAGE
a = Action to be stopped (default is the action currently executing on the TEN). Valid value(s):
DGN = Diagnose.
EX = Exercise.
RMV = Remove.
RST = Restore.

b = Switching module number. Refer to the APP: RANGES appendix in the Appendixes section of the Input Messages manual.

c = Trunk unit number. Refer to the APP: RANGES appendix in the Appendixes section of the Input Messages manual.

d = Service group number. Refer to the APP: RANGES appendix in the Appendixes section of the Input Messages manual.

e = Channel board number. Refer to the APP: RANGES appendix in the Appendixes section of the Input Messages manual.

f = Channel number. Refer to the APP: RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE
NG = No good. The request has been denied because of a conflict with current status.

PF = Printout follows. Followed by the STP:TEN output message.

5. REFERENCES
Input Message(s):
DGN:TEN
EX:TEN
RMV:TEN
RST:TEN
Output Message(s):

STP : TEN

Input Appendix(es):

APP : RANGES
STP:TMS

Software Release: 5E14 and later
Command Group: CM
Application: 5
Type: Input

1. PURPOSE

Requests that a diagnostic or exercise on the time-multiplexed switch (TMS) on the specified office network and timing complex (ONTC) be stopped.

Stop is differentiated from abort by the action of the request. A stop action is not immediate, but waits for a 'clean' point of termination (such as, the end of a phase), and will attempt to leave the hardware in a sane state. An about action is immediate and the state of the hardware is not guaranteed.

2. FORMAT

STP: [a,] TMS=b;

3. EXPLANATION OF MESSAGE

a

= Action to be stopped (default is any action currently waiting or executing on the TMS). Valid value(s):
   DGN = Diagnose.
   EX  = Exercise.

b

= Side of ONTC that the TMS is on. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

IP

= In progress. The stop has been initiated. A completion message will be printed for the original request when the stop has completed.

NG

= No good. The request has been denied. The message syntax is valid, but the request could not be processed. Refer to the APP:CM-IM-REASON appendix in the Appendixes section of the Input Messages manual for a list of possible reasons for denying the request.

5. REFERENCES

Input Message(s):
   DGN:TMS
   EX:TMS
   OP:DMQ

Output Message(s):
   DGN:TMS
   EX:TMS
   OP:DMQ-CM
Input Appendix(es):

APP: CM-IM-REASON
APP: RANGES
1. PURPOSE

Stops a diagnostic, remove, or restore, on the time multiplexed switch (TMS) fabric pair (TMSFP) for the specified office network and timing complex (ONTC). This command also has the option of stopping any running or pending child requests of the parent TMSFP.

Stop is differentiated from abort by the action of the request. A stop action is not immediate, but waits for a graceful point of termination (for example, the end of a phase), and will attempt to leave the hardware in a sane state. An abort action is immediate and the state of the hardware is not guaranteed.

2. FORMAT

\[ \text{STP:} [a,] \text{TMSFP=}b-c[,\text{ALL}]; \]

3. EXPLANATION OF MESSAGE

- **ALL** = Stop the TSMFP request and/or any child (for example, QLPS, NLI, DLI) requests that may exist on the deferred maintenance queues (DMQ).
- **a** = Action to be stopped. The default is any action currently waiting or executing on the TMSFP. Valid value(s):
  - **DGN** = Diagnose.
  - **RMV** = Remove.
  - **RST** = Restore.
- **b** = ONTC side that the TMSFP is on.
- **c** = TMS fabric pair number.

4. SYSTEM RESPONSE

- **IP** = In progress. The stop has been initiated. A completion message will be printed for the original request when the stop has completed.
- **NG** = No good. The request has been denied. The message syntax is valid, but the request could not be processed. Refer to the APP:CM-IM-REASON appendix in the Appendixes section of the Input Messages manual for a list of possible reasons for denying the request.
- **RL** = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

Input Message(s):

- **ABT:TMSFP**
- **DGN:TMSFP**
OP: DMQ–CM–SM
RMV: TMSFP
RST: TMSFP

Output Message(s):
DGN: TMSFP
OP: DMQ–CM
RMV: TMSFP
RST: TMSFP

Input Appendix(es):
APP: CM–IM–REASON
STP:TMUX

Software Release: 5E14 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Requests that maintenance actions be stopped on a digital networking unit - synchronous optical network (DNU-S) transmission multiplexer (TMUX).

2. FORMAT

STP:\[a,] TMUX=b-c-d-e;

3. EXPLANATION OF MESSAGE

a = Action to be stopped (default is the action currently executing on the TMUX). Valid value(s):
   DGN = Diagnose.
   RMV = Remove.
   RST = Restore.

b = Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

c = DNU-S number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

d = Data group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

e = TMUX number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

NG = No good. The message form is valid, but the request conflicts with the current status.

PF = Printout follows. Followed by the STP:TMUX output message.

RL = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

Input Message(s):

DGN:TMUX
RMV:TMUX
RST:TMUX
Output Message(s):

STP : TMUX

Input Appendix(es):

APP : RANGES

MCC Display Page(s):

1510 (DNUS STATUS)
STP:TRIB

Software Release: 5E15 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Requests that maintenance actions be stopped on a PCT (Peripheral Control and Timing) line and trunk unit link tributary (TRIB).

2. FORMAT

STP: [a,]TRIB=b-c-d-e;

3. EXPLANATION OF MESSAGE

a = Action to be stopped (default is the action currently executing on the TRIB). Valid value(s):
   RMV = Remove.
   RST = Restore.

b = Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

c = PLTU (PCT Line and Trunk Unit) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

d = PCT Facility Interface number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

e = PCT Tributary number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

NG = No good. Valid values are:
   - REASON FOR NG = The message form is valid, but the request conflicts with current status.

PF = Printout follows. A STP TRIB output message follows.

RL = Retry later. The request cannot be executed now due to unavailable system resource.

5. REFERENCES

Input Message(s):
RST:TRIB
RMV:TRIB
ABT:TRIB
Output Message(s):

    STP: TRIB

Input Appendix(es):

    APP: RANGES

Other Manual(s):

235-105-110   System Maintenance Requirements and Tools
235-105-220   Corrective Maintenance

MCC Display Page(s):

    1430 (PLTU Status page)
    1431 (PLTU Tributary Status Page)
STP:TST-DSL

Software Release: 5E14 and later
Command Group: TRKLN
Application: 5
Type: Input

1. PURPOSE

Stops pending or currently running test(s) of a integrated service digital network (ISDN) digital subscriber line (DSL). The test to be stopped was previously requested by the TST:DSL input message or from the trunk and line work station (TLWS). This message stops all tests on the DSL specified.

Unless otherwise stated: all references to integrated services line unit (ISLU), include all configurations of the ISLU and the integrated services line unit, version 2 (ISLU2). This includes both the remote integrated services line unit (RISLU) and remote integrated services line unit version 2 (RISLU2). All references to access interface unit (AIU), include the remote access interface unit (RAIU). Reference to line unit (LU) includes all supported ISDN compatible LUs.

For integrated digital carrier unit (IDCU) or digital network unit - synchronous optical network (SONET) (DNU-S) remote digital terminal (RDT) DSLs, a corrupt cyclic redundancy check (CRC) test cannot be stopped (see the TST:DSL input message).

In general, the DSL test to be stopped is identified using the office equipment number (OEN) or an associated subscriber directory number (DN).

Format 1 stops ALL test requests in the system.

Format 2 stops test requests on any LU DSL using the subscriber DN.

Format 3 stops test requests on ISLU DSLs using the line card equipment number (LCEN).

Format 4 stops test requests on ISLU2 DSLs using the line circuit equipment number (LCKEN).

Format 5 stops test requests on AIU DSLs using the AIU equipment number (AIUEN).

Format 6 stops test requests on IDCU, DSLs using the IDCU line equipment number (ILEN).

Format 7 stops test requests on DNU-S, DSLs using the integrated digital loop carrier (IDLC) networking line equipment number (INEN).

2. FORMAT

[1] STP:TST:DSL;
[7] STP:TST:DSL,INEN=b-f-g-k;
3. EXPLANATION OF MESSAGE

a = subscriber directory number.

b = Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

c = ISDN line unit. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

d = Line group controller number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

e = IDCU number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

f = DNU-S number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

g = Remote digital terminal number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

h = Line board/pack number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

i = Line card number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

j = Line circuit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

k = RDT channel unit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

PF = Printout follows. A TST:DSL output message will follow when the test has been stopped.

5. REFERENCES

Input Message(s):

OP:CONV
TST:DSL

Output Message(s):

TST:DSL

Input Appendix(es):

APP:RANGES
STP:TST-ELS

Software Release: 5E14 and later
Command Group: TRKLN
Application: 5
Type: Input

1. PURPOSE

Requests that a currently-running (manually-requested) electronic loop segregation (ELS) test be stopped. The test to be stopped has been previously requested by the TST:LINE-ELS input message.

Only one manually-requested ELS test per switching module (SM) is allowed. Therefore, any test of the line identifier type specified (DN, MLHG, and so forth) running in the SM will be stopped. Formats 1 through 6 are used to request that an ELS test related to an individual line of the type indicated be stopped. Format 7 is used to request that all ELS tests related to the specified SM be stopped.

2. FORMAT

[1] STP:TST,ELS,DN=a[-n];
[3] STP:TST,ELS,LEN=d-e-f-g[-h][-i]];
[4] STP:TST,ELS,LCEN=d-k-l-m;
[6] STP:TST,ELS,LCKEN=d-o-p-q[-r];

3. EXPLANATION OF MESSAGE

Note: Refer to the Acronym section of the Input Messages manual for the full expansion of acronyms shown in the format.

a = Directory number (DN) of the line being tested. The directory number will include NPA for non-unique NXX DN.

b = Hunt group number of the line being tested (or any line in the same SM as the line being tested). Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

c = Member number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

d = SM number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

e = Line unit number of the line being tested (or any line in the same SM as the line being tested). Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

f = Grid number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
g = Grid pack number (LU1, LU2, or LU3). Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

Note: If ALL is specified for variable ‘g’ then variable ‘h’ and ‘i’ should be omitted.

h = Switch number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

Note: If ALL is specified for variable ‘h’ then variable ‘i’ should be omitted.

i = Level number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

Note: If ALL is specified for variable ‘i’ then the 4 lines on the specified switch will be stopped.

k = Integrated services line unit (ISLU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

l = Line group controller number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

m = Line card number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

n = Member number of the MLHG or line time slot bridging (LTSB) line. For MLHG the DN specified should be the main DN for the group and the member number should indicate a specific member in the group. For LTSB a member number of 1 indicates the lead line and a member number of 2 indicates the associate line. If no member is specified, for 1-DN LTSB, the lead line will be stopped. If no member number is specified, for 2-DN LTSB, the line associated with the DN entered will be stopped.

o = Integrated services line unit-2 (ISLU2) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

p = Line group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

q = Line board number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

Note: If ALL is specified for variable ‘q’ then variable ‘r’ should be omitted.

r = Line circuit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

Note: If ALL is specified for variable ‘r’ then all the lines on the line board will be stopped.

s = Access interface unit (AIU) equipment number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
t = AIU pack number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

u = AIU circuit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

NG = No good. The request has been denied. The message form is valid but the request conflicts with current status.

PF = Printout follows. The request has been received. Followed by the STP:TST-ELS output message.

5. REFERENCES

Input Message(s):

TST:LINE-ELS

Output Message(s):

STP:TST-ELS

Input Appendix(es):

APP:RANGES
STP:TST-LEN
Software Release: 5E14 and later
Command Group: TRKLN
Application: 5
Type: Input

1. PURPOSE
Requests that actions on the line unit path exerciser (LUPEX) be stopped at the specified location.

2. FORMAT
STP:TST,LEN=a-b-c-d-e-f;

3. EXPLANATION OF MESSAGE

a  = Switching module number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

b  = Line unit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

c  = Grid number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

d  = Grid board number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

e  = Grid board switch number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

f  = Grid board switch level number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

NG  = No good. The request has been denied because of a conflict with current status.

PF  = Printout follows. Followed by the STP:TST-LEN output message.

RL  = Retry later. The request has been denied due to unavailable system resources.

5. REFERENCES

Input Message(s):
ABT:TST-LEN
TST:LEN

Output Message(s):
ABT:TST-LEN
STP: TST-LEN
TST: LEN

Input Appendix(es):
APP: RANGES

Other Manual(s):
235-105-220  Corrective Maintenance
1. PURPOSE
Requests that a modem pool (MP) test started by the TST:MP input message be stopped.
The test will be stopped immediately.

2. FORMAT

[1]  STP:TST:MP,MPM=a-b;

3. EXPLANATION OF MESSAGE
An MPG is a multi-line hunt group (MLHG). An MLHG can be identified by both its number and its directory number (DN). An MPM is identified by the group number and member number.

a  = Modem pool group (MPG) number involved in this test.
b  = Modem pool member (MPM) number of first MPM involved in this test.
c  = Directory number (DN) of multi-line hunt group (MLHG) for this test.

4. SYSTEM RESPONSE

NG  = No good. The request has been denied.
PF  = Printout follows. The request has been accepted and the test will be stopped. Followed by the STP:TST-MP output message.
RL  = Retry later. The request cannot be accepted now because of system load.

5. REFERENCES

Input Message(s):

TST:MP

Output Message(s):

TST:MP

Other Manual(s):

235-105-220  Corrective Maintenance
STP:TST-PATH-A

Software Release: 5E15 only
Command Group: TRKLN
Application: 5
Type: Input

1. PURPOSE

Stops pending or currently running test(s) of a digital loop-back (LPBK) test on inter-working gateway (IWG) or the end to end test call. The test to be stopped was previously requested by the TST:PATH input message.

Format 1 stops ALL test requests in the system or on any SM. The SM parameter can only be used to stop tests which had requested with the IWG parameter on the original test path request.

Format 2 stops test requests for IWG test call. If user specified any path equipment number (PEN) identifiers in test path request, then the same identifiers can be specified here to stop the test.

Format 3 stops test requests for bearer independent connection control (BICC) test call. If user specified any IWG, PEN or overload control 3 (OC3) identifiers in test path request, then the same identifiers can be specified to stop the test.

2. FORMAT

[1] STP:TST,PATH[,SM=a];

[2] STP:TST,PATH,IWG=a-b[,PEN=c[-d[-e]]];

[3] STP:TST,PATH,{BG=h|BGMN=h-i},OPDN=g[,IWG=a-b][,PEN=c[-d[-e]]][,OC3=f];

3. EXPLANATION OF MESSAGE

a = Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

b = Inter-working gateway (IWG) unit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

c = Relative link number (0-4). Each relative link (rlink) is a coaxial cable connected to a synchronous transport signal number 1 (STS-1e) card in the IWG. Each rlink is equivalent to an host facility on the IWG (also equivalent to IWGFAC#-1).

d = Relative tributary number (0-27). Each rlink has 28 relative tributary numbers (rtrib). The rtrib is a logical entity on the rlink, which is equivalent to a DS1 in the DNUS. Each rtrib is a physical device chip inside of IWG which capable of handling 24 channels.

e = Digital signal 0 (DS0) value (0-24). DS0 is logical channels inside the rtrib. The total logical DS0 channels (total rtrib * total DS0) on a rlink is equivalent to the total time slots (TS) on 5E.

f = Optical carrier 3 (OC3) link number (0-1).

g = Out pulse digits.
h = BICC group number.
i = BICC group member or normalized circuit identification code (CIC).

4. SYSTEM RESPONSE

PF = Printout follows. Followed by the TST:PATH output message.

5. REFERENCES

Input Message(s):

OP:BICC
OP:JOBSTATUS
TST:PATH

Output Message(s):

OP:BICC
OP:JOBSTATUS
TST:PATH

Input Appendix(es):

APP:RANGES
STP:TST-PATH-B

Software Release: 5E16(1) only
Command Group: TRKLN
Application: 5
Type: Input

1. PURPOSE

Stops pending or currently running test(s) of a digital loop-back (LPBK) test on inter-working gateway (IWG) or the end to end test call. The test to be stopped was previously requested by the TST:PATH input message.

Format 1 stops ALL test requests in the system or on any SM. The SM parameter can only be used to stop tests which had requested with the IWG parameter on the original test path request.

Format 2 stops test requests for IWG test call. If user specified any path equipment number (PEN) identifiers in test path request, then the same identifiers can be specified here to stop the test.

Format 3 stops test requests for bearer independent connection control (BICC) test call. If user specified any IWG, PEN or overload control 3 (OC3) identifiers in test path request, then the same identifiers can be specified to stop the test.

2. FORMAT

[1] STP:TST,PATH[,SM=a];
[2] STP:TST,PATH,IWG=a-b[,PEN=c[-d[-e]]];
[3] STP:TST,PATH,{BG=h|BGMN=h-i},OPDN=g[,IWG=a-b][,PEN=c[-d[-e]]][,OC3=f];

3. EXPLANATION OF MESSAGE

a = Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

b = Inter-working gateway (IWG) unit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

c = Relative link number (0-4). Each relative link (rlink) is a coaxial cable connected to a synchronous transport signal number 1 (STS-1e) card in the IWG. Each rlink is equivalent to an Host Facility on the IWG (also equivalent to IWGFAC#-1).

d = Relative tributary number (0-27). Each rlink has 28 relative tributary numbers (rtrib). The rtrib is logical entity on the rlink, which is equivalent to a DS1 in the DNUS. Each rtrib is a physical device chip inside of IWG which capable of handling 24 channels.

e = Digital signal 0 (DS0) value (0-24). DS0 is logical channels inside the rtrib. The total logical DS0 channels (total rtrib * total DS0) on a rlink is equivalent to the total time slots (TS) on 5E.

f = Overload control 3 (OC3) link number (0-1).

g = Out pulse digits.

h = BICC group number.

i = BICC group member or normalized circuit identification code (CIC).
4. SYSTEM RESPONSE

PF = Printout follows. Followed by the TST:PATH output message.

5. REFERENCES

Input Message(s):

OP:BICC
OP:JOBSTATUS
TST:PATH

Output Message(s):

OP:BICC
OP:JOBSTATUS
TST:PATH

Input Appendix(es):

APP:RANGES
**STP:TST-PATH-C**

**Software Release:** 5E16(2) and later  
**Command Group:** TRKLN  
**Application:** 5  
**Type:** Input

### 1. PURPOSE

Stops currently executing or pending test(s) initiated by a previously received TST:PATH input message. For descriptions of the various TST:PATH test types, see the TST:PATH input message manual page.

Format 1 stops ALL test requests in the system.

Format 2 stops the test request identified by the specified REQNO. The REQNO is assigned to the test request when the input message acknowledgment ("PF") is provided.

Format 3 stops all test requests which were requested for the specified switching module (SM) using either the optical interface unit (OIU) or the optical interface unit protection group (OIUPG) parameter in the original test request.

Format 4 stops test requests for packet test calls looped back internally in the packet OIU protection group.

Format 5 stops test requests for packet test calls connecting over the packet network to a test line in the far office.

Format 6 stops test requests for ATM packet pipe trunk test calls. The ability to stop all tests running on a specific ATM link is also provided.

Format 7 stops test requests for signaling ATM adaption layer (SAAL) high speed link (HSL) test calls.

If an identifier is specified in a STP:TST-PATH input message, generally that same identifier must have also been specified in the original TST:PATH request for it to be stopped by a stop request. By omitting an optional identifier in the STP:TST-PATH input message, no consideration is given to the use of that identifier in the original TST:PATH request in deciding whether or not to stop a running test.

### 2. FORMAT

1. \[ \text{STP:TST,PATH;} \]
2. \[ \text{STP:TST,PATH:REQNO=a[&&b];} \]
3. \[ \text{STP:TST,PATH:SM=c;} \]
4. \[ \text{STP:TST,PATH:[DELAY,]OIUPG=c-d-e,PCTTS=f-g;} \]
5. \[ \text{STP:TST,PATH:[\{DELAY\|OG105\},]\{PKTG=h\|PKTGMN=h-i\}}\]
6. \[ \text{STP:TST,PATH:[\{ATMENH\|ATMLBK\},]\{ATMPF=c-k-l{-m\|ALL}\|TKGMN=n-o[&&p]\|TG=n\},} \]

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3. EXPLANATION OF MESSAGE

a = Request number to be stopped, or the lower limit of a range of request numbers to be stopped (0-254).
b = Upper limit of a range of request numbers to be stopped (0-254).
c = SM number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
d = OIU number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
e = OIUPG number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
f = Peripheral control and timing (PCT) link number, relative to the OIU (0-2).
g = PCT time slot (PCTTS) number (0-767).
h = Packet group (PKTG) number (7000-7999).
i = Packet group member number (PKTGMN) (0-65535).
j = Outpulsed directory number (OPDN) of the appropriate test line type at far-end office.
k = Packet switching unit (PSU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
l = ATM link unit number (1-10).
m = Virtual connection identifier (VCID) number (0-1023). VCID is a virtual connection identifier that identifies a PVC on a given PSU ATM link. If "ALL" is specified instead of a specific VCID number, all test requests which are currently running or pending on each VCID of the matching SM-PSU-LINKs specified in TST:PATH input message will be stopped.
n = Trunk group number.
o = Trunk member number or the lower end of a range of trunk member numbers.
p = Upper end of a range of trunk member numbers.
q = Number of times to repeat (RPT) the test being run (1-32).
r = Duration (DUR) of the test to be run, in seconds.
s = Camp-on time for the test being run (10-3600).
t = PSU shelf number (0-5).
u = PSU channel number (0-15).
v = PSU channel member number (0-127).

4. SYSTEM RESPONSE

PF = Printout follows. Followed by one or more TST:PATH output messages for stopped tests, or a STP:TST-PATH output message indicating the outcome of the request.

5. REFERENCES

Input Message(s):

OP:JOBSTATUS
TST:PATH

Output Message(s):

OP:JOBSTATUS
TST:PATH
STP:TST-PATH

Input Appendix(es):

APP:RANGES
STP:TST-TRK

Software Release: 5E14 and later
Command Group: TRKLN
Application: 5
Type: Input

1. PURPOSE

Requests that the testing of trunks initiated by the TST:TRK input message be stopped. This message is entered to stop the tests on the remaining members of the trunk group and/or range specified in the TST:TRK input message.

2. FORMAT

STP:TST,TRK;

3. EXPLANATION OF MESSAGE

No variables.

4. SYSTEM RESPONSE

NG = No good. The request has been denied.

PF = Printout follows. The request has been accepted and the test has been stopped. Followed by an STP:TST-TRUNK output message.

RL = Retry later. The request cannot be executed now because of system load. Repeat request later.

5. REFERENCES

Input Message(s):

TST: TRK

Output Message(s):

STP:TST-TRUNK
STP:TST:WLINE

Software Release: 5E14 and later
Command Group: TRKLN
Application: AEWNC
Type: Input

1. PURPOSE
Requests that the test of continuity of analog lines terminated on the W-card of WNC be stopped.

2. FORMAT
STP:TST:WLINE

3. EXPLANATION OF MESSAGE
No variables.

4. SYSTEM RESPONSE
NA = NO TEST FOUND.
P2 = Printout follows. The request has been accepted and is followed by an STP:TST:WLINE output message.

5. REFERENCES
Input Message(s):
   TST:WLINE

Output Message(s):
   TST:WLINE

Other Manual(s):
230-701-100  Air Extension\textsuperscript{SM} Reference Guide
235-701-120  Air Extension\textsuperscript{SM} User Guide
**STP:TTFCOM**

**Software Release:** 5E14 and later  
**Command Group:** SM  
**Application:** 5  
**Type:** Input

1. **PURPOSE**

Requests that actions on the transmission test facility common (TTFCOM) board at the specified location be stopped.

2. **FORMAT**

   STP:\[a,]TTFCOM=b-c-d-e;

3. **EXPLANATION OF MESSAGE**

   **a** = Action to be stopped (default is the action currently executing on the TTFCOM board). Valid value(s):
   - **DGN** = Diagnose.
   - **EX** = Exercise.
   - **RMV** = Remove.
   - **RST** = Restore.

   **b** = Switching module number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

   **c** = Global digital service unit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

   **d** = Service group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

   **e** = Board number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. **SYSTEM RESPONSE**

   **NG** = No good. The request has been denied because of a conflict with current status.

   **PF** = Printout follows. Followed by the STP:TTFCOM output message.

5. **REFERENCES**

   Input Message(s):
   - DGN:TTFCOM
   - EX:TTFCOM
   - RMV:TTFCOM
   - RST:TTFCOM
Output Message(s):

\texttt{STP: TTFCOM}

Input Appendix(es):

\texttt{APP: RANGES}
STP: TUCHBD

Software Release: 5E14 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Requests that actions on the trunk unit channel board (TUCHBD) at the specified location be stopped.

2. FORMAT

STP: [a,] TUCHBD=b-c-d-e;

3. EXPLANATION OF MESSAGE

a = Action to be stopped (default is the action currently executing on the TUCHBD). Valid value(s):
   DGN = Diagnose.
   EX = Exercise.
   RMV = Remove.
   RST = Restore.

b = Switching module number. Refer to the APP: RANGES appendix in the Appendixes section of the Input Messages manual.

c = Trunk unit number. Refer to the APP: RANGES appendix in the Appendixes section of the Input Messages manual.

d = Service group number. Refer to the APP: RANGES appendix in the Appendixes section of the Input Messages manual.

e = Channel board number. Refer to the APP: RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

NG = No good. The request has been denied because of a conflict with current status.

PF = Printout follows. Followed by the STP: TUCHBD output message.

5. REFERENCES

Input Message(s):

   DGN: TUCHBD
   RMV: TUCHBD
   RST: TUCHBD

Output Message(s):
STP : TUCHBD

Input Appendix(es):

APP : RANGES
1. PURPOSE

Requests that actions on the universal conference (UCONF) circuit at the specified location be stopped.

2. FORMAT

STP: [a,] UCONF=b-c-d-e;

3. EXPLANATION OF MESSAGE

a = Action to be stopped (default is the action currently executing on the UCONF circuit). Valid value(s):
   DGN = Diagnose.
   EX = Exercise.
   RMV = Remove.
   RST = Restore.

b = Switching module number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

c = Global digital service unit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

d = Service group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

e = Digital service circuit unit board number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

NG = No good. The request has been denied because of a conflict with current status.

PF = Printout follows. Followed by the STP:UCONF output message.

5. REFERENCES

Input Message(s):
   DGN:UCONF
   EX:UCONF
   RMV:UCONF
   RST:UCONF
Output Message(s):

STP : UCONF

Input Appendix(es):

APP : RANGES
STP:UMBIL

Software Release: 5E14 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Requests that actions on a host umbilical (UMBIL) circuit be stopped. This message is applicable for host umbilicals terminating on a digital line and trunk unit (DLTU) or on a digital networking unit - synchronous optical network (DNU-S). This is an alternative way to address a remove of a host facility (HFAC) or a DS1 facility.

2. FORMAT

STP:[a,]UMBIL=b-c-d;

3. EXPLANATION OF MESSAGE

a = Action to be stopped (the default action is the action currently executing on the UMBIL). Valid values are:
   RMV = Remove.
   RST = Restore.

b = Host Switch Module (HSM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

c = Remote Switch Module (RSM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

d = UMBIL number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

NG = No good. The request has been denied. The message is valid but the request conflicts with current status.

PF = Printout follows. Followed by the STP:UMBIL output message.

RL = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

Input Message(s):
   RMV:UMBIL
   RST:UMBIL
   ABT:UMBIL

Output Message(s):
STP: UMBIL

Input Appendix(es):
APP: RANGES

Other Manual(s):
235-105-110 System Maintenance Requirements and Tools
235-105-220 Corrective Maintenance

MCC Display Page(s):
1740,xxx,yyy (HOST UMBILICALS (1 - 10))
1741,xxx,yyy (HOST UMBILICALS (11 - 20))
STP:UTD

Software Release: 5E14 and later  
Command Group: SM  
Application: 5  
Type: Input

1. PURPOSE
Requests that actions on the universal tone decoder (UTD) board at the specified location be stopped.

2. FORMAT
STP: [a,] UTD=b-c-d-e;

3. EXPLANATION OF MESSAGE

a = Action to be stopped (default is the action currently executing on the UTD). Valid value(s):
   DGN = Diagnose.
   EX  = Exercise.
   RMV = Remove.
   RST = Restore.

b = Switching module number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

c = Local digital service unit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

d = Service group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

e = Digital service unit board position number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

NG = No good. The request has been denied because of a conflict with current status.

PF = Printout follows. Followed by the STP:UTD output message.

5. REFERENCES

Input Message(s):
   DGN: UTD
   EX: UTD
   RMV: UTD
   RST: UTD

Output Message(s):
STP:UTG

Software Release: 5E14 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Requests that actions on the universal tone generator (UTG) board at the specified location be stopped.

2. FORMAT

STP: [a,] UTG=b-c-d-e;

3. EXPLANATION OF MESSAGE

a = Action to be stopped (default is the action currently executing on the UTG board). Valid value(s):
DGN = Diagnose.
EX = Exercise.
RMV = Remove.
RST = Restore.

b = Switching module number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

c = Local digital service unit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

d = Service group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

e = Digital service circuit unit board position number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

NG = No good. The request has been denied because of a conflict with current status.

PF = Printout follows. Followed by the STP:UTG output message.

5. REFERENCES

Input Message(s):

DGN:UTG
EX:UTG
RMV:UTG
RST:UTG

Output Message(s):
STP: UTG

Input Appendix(es):

APP: RANGES
STP:VT15

Software Release: 5E16(1) and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE
Requests that the currently executing maintenance action on a virtual tributary - level 1.5 (VT15) be stopped.

2. FORMAT
STP:[a,]VT15=b-c-d-e-f-g-h;

3. EXPLANATION OF MESSAGE

a = Action being stopped (default is the currently executing action). Valid value(s):
   RMV = Remove.
   RST = Restore.

b = Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

c = Optical interface unit (OIU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

d = Protection group (PG) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

e = Optical carrier - level 3 (OC3) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

f = Synchronous transport signal - level 1 (STS1) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

g = VT15 group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

h = VT15 member number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

NG = No good. The message form is valid, but the request conflicts with current status.

PF = Printout follows. Followed by the STP:VT15 output message.

RL = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES
Input Message(s):

ABT: VT15
RMV: VT15
RST: VT15

Output Message(s):

STP: VT15

Input Appendix(es):

APP: RANGES

Other Manual(s):

235-105-110  System Maintenance Requirements and Tools
235-105-220  Corrective Maintenance

MCC Display Page(s):

1492  OIU STS1 STATUS
STP:VT1FAC-B
Software Release: 5E14 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE
Requests that maintenance actions be stopped on a digital networking unit - synchronous optical network (DNU-S) virtual tributary level 1 facility (VT1FAC).

2. FORMAT
STP: [a,]VT1FAC=b-c-d-e-f-g-h;

3. EXPLANATION OF MESSAGE
a = Action to be stopped (default is the action currently executing on the VT1FAC). Valid value(s):
   RMV = Remove.
   RST = Restore.

b = Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

c = Digital Networking Unit - SONET (DNU-S) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

d = Data group (DG) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

e = SONET Termination Equipment (STE) facility number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

f = Synchronous Transport Signal (STS) facility number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

g = Virtual tributary group (VTG) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

h = Virtual tributary member (VTM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE
NG = No good. The message form is valid, but the request conflicts with the current status.
PF = Printout follows. Followed by the STP:VT1FAC output message.
RL = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES
Input Message(s):

RMV:VT1FAC
RST:VT1FAC

Output Message(s):

STP:VT1FAC

Input Appendix(es):

APP:RANGES

MCC Display Page(s):

1511 (DNUS STS MAINTENANCE)
STP:WSTST

Software Release: 5E14 and later
Command Group: TRKLN
Application: 5
Type: Input

1. PURPOSE

Requests to stop the action of a test at the trunk and line work station (TLWS) test position (TP) started by a digital, metallic, supervision, or transmission test request.

2. FORMAT

STP:WSTST,TP=a;

3. EXPLANATION OF MESSAGE

a = TLWS TP number.

4. SYSTEM RESPONSE

NG = No good. Refer to the APP:TLWS appendix in the Appendixes section of the Output Messages manual for an explanation of TLWS error responses.

OK = Good. The test was stopped.

5. REFERENCES

Input Message(s):
RLS:WSTST
TST:WSDGTL
TST:WSMEAS
TST:WSMET
TST:WSSEND
TST:WSSUPV

Output Appendix(es):
APP:TLWS

Other Manual(s):
235-100-125 System Description
235-105-110 System Maintenance Requirements and Tools
235-105-220 Corrective Maintenance

MCC Display Page(s):
160 (TRUNK & LINE MAINT)
76. SW
SW:AIUCOM

Software Release: 5E14 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Requests that the active major/active minor states of the access interface unit common data and control controller be switched (interchanged).

Note: Both controllers must be in service before this message will be honored.

2. FORMAT

SW:AIUCOM=a-b;

3. EXPLANATION OF MESSAGE

a = Switching module (SM) number.

b = AIU number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

NG = No good. The message form is valid, but the request conflicts with the current status.

PF = Printout follows. Followed by the SW:AIUCOM output message.

RL = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

Output Message(s):

SW:AIUCOM

Input Appendix(es):

APP:RANGES

MCC Display Page(s):

1320.y.x (AIU SUMMARY)
1. PURPOSE

Requests that the active/standby state of the administrative service module (ASM) be switched (interchanged) when high availability ASM (HA-ASM) exists in an office.

On a conditional request, the input request is only performed if the ASMs are in an active/standby configuration and no conflicting operations are in progress.

For the unconditional request, the input request is performed if the ASMs are in an active/standby configuration. If a conflicting operation is in progress, the UCL option will over-ride the operation.

The command is rejected if the mate ASM is in an out of service state.

The SW ASM output command will indicate if the request was started or blocked. Once the switch over is started, ASM state changes are reported using the REPT:ASM input message.

2. FORMAT

SW:ASM[,UCL];

3. EXPLANATION OF MESSAGE

No variables.

4. SYSTEM RESPONSE

NG = No good.

RL = Retry later.

PF = Printout follows. The command has been accepted. Followed by the SW:ASM output message indicating if the request can be started.

5. REFERENCES

Output Message(s):

REPT:ASM
SW:ASM

Other Manual(s):
235-200-145 ASM User's Guide
SW:CLOCK

Software Release: 5E14 and later
Command Group: CCS
Application: 5
Type: Input

1. PURPOSE

Requests that the mate network clock node be switched to the master network clock node.

If the STATUS data field is not used, the mate clock node will become the master clock node and will broadcast the change to all member nodes in the CCS network. This message can only be entered at the mate clock node. The status of the clock information can be verified by including the STATUS data field. The status information is the master/mate clock node point codes or a message if the data is not assigned. If the point codes are displayed and the master has been determined, it will be determined with an asterisk (**).

2. FORMAT

SW:CLOCK[:STATUS];

3. EXPLANATION OF MESSAGE

STATUS = Verify the status of clock information. The status information is the master/mate clock node point codes or a message if the data is not assigned. If the point codes are displayed and the master has been determined, it will be marked with an asterisk (**).

Note: Default will switch the network clock node to the master network clock node.

4. SYSTEM RESPONSE

MASTER/MATE POINT CODES: UNASSIGNED = If the master and mate clock nodes are not assigned, the following message will be output.

NETWORK CLOCK DATA DOES NOT EXIST = If the STATUS data field is not used, certain checks of the current status of the office are made. For the switch to be performed, neither the master nor mate point codes can equal "000000000". This condition would occur if the "clkdata" disk file does not exist or if it contains all zeroes for the point codes. If this condition is detected, the following message will be output.

CLOCK MESSAGES ARE NOT ENABLED = Additionally, for the switch to be performed, IMS messages must be allowed to be transmitted. They are not allowed if the office has not successfully completed an initialization of level 1 or higher. If this condition is detected, the following message will be output.

CURRENT NODE MUST BE THE MATE CLOCK = The last remaining check to be made is that the office is the mate clock. If the office is not currently the mate clock, the following message will be output.

5. REFERENCES

Output Message(s):

SW:CLOCK-COMPL
Other Manual(s):
235-190-120  Common Channel Signaling Service Features
**SW:CMP**

**Software Release:** 5E14 and later  
**Command Group:** CM  
**Application:** 5  
**Type:** Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. **PURPOSE**

Requests activation of the standby of the communication module processor (CMP). The CMPs must be active standby to allow a switch.

This input message also stimulates the communication link normalization program (CLNORM) to analyze the resulting CMP and foundation peripheral controller (FPC) configuration and, under certain circumstances, modify it.

CLNORM modifies the configuration under the following circumstances. When message switch (MSGS) sides have an unequal number of communication links, CLNORM will attempt to keep the active CMP and active FPC configured to the MSGS side that carries the largest number of communication links. This is to reduce an administrative module (AM) performance degradation condition known as "message hairpinning". To ensure that CLNORM does not switch CMPs and FPCs back to the previous configuration, all MSGS hardware should be in service and communication links normalized before this input message is entered.

When MSGS sides have an equal number of communication links (the normal case), CLNORM will attempt to keep the active CMP and the active FPC on opposite MSGS sides. CLNORM keeps these units on separate sides so as to more evenly distribute message traffic between MSGS sides. In this case, issuing the SW:CMP input message will internally produce a switch of the FPC. Likewise, a switch of the FPC will indirectly produce a switch of the CMP.

During periods of repair or installation, this activity by CLNORM is inhibited by entering the INH:CLNORM,FPC and/or the INH:CLNORM,CMP input message.

**WARNING:** The use of this input message with the unconditional option could result in the loss of transient calls. Use with extreme caution!

2. **FORMAT**

```
SW:CMP=a-b[,UCL];
```

3. **EXPLANATION OF MESSAGE**

**UCL** = Switch the CMP unconditionally without performing a memory update.

**a** = Message switch side number.

**b** = CMP number.

4. **SYSTEM RESPONSE**

**NG** = No good. The request has been denied. The message syntax was valid, but the request could not be processed. Refer to the APP:CM-IM-REASON appendix in the Appendixes section of the Input Messages manual for a list of possible reasons for denying the request.
PF = Printout follows. The output message SW:CMP follows.

RL = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

Input Message(s):

INH:CLNORM
OP:CFGSTAT
RST:CMP
STP:CMP

Input Appendix(es):

APP:CM–IM–REASON

Output Message(s):

OP:CFGSTAT–CM
REPT:CMP–SW
RST:CMP
SW:CMP

Other Manual(s):
235-105-110 System Maintenance Requirements and Tools
235-105-220 Corrective Maintenance
235-105-250 System Recovery Procedures

MCC Display Page(s):

1241, 1251 (MSGS COMMUNITIES)
1240, 1250 (MSGS STATUS for CM3)
SW:CU

Software Release: 5E14 and later
Command Group: AM
Application: 5,3B
Type: Input

1. PURPOSE

Requests a graceful switch of the active/standby status of the administrative module (AM) control units (CUs). The CU switch is attempted only if the offline CU major status is standby.

2. FORMAT

SW:CU;

3. EXPLANATION OF MESSAGE

No variables.

4. SYSTEM RESPONSE

NG = No good. The CU's were not switched because the offline CU is not in an acceptable state.

PF = Printout follows. Followed by a SW:CU output message.

5. REFERENCES

Input Message(s):

OP : OOS

Output Message(s):

OP : OOS
SW : CU

MCC Display Page(s):

(COMMON PROCESSOR DISPLAY)
SW:DLN

Software Release: 5E14 and later
Command Group: CCS
Application: 5,CNI
Type: Input

1. PURPOSE

Switches the active standby status of the direct link nodes (DLN) on the common network interface (CNI) ring. The input message is accepted only if the non-active DLN reflects a standby condition.

2. FORMAT

SW:DLN;

3. EXPLANATION OF MESSAGE

No variables.

4. SYSTEM RESPONSE

NG = No good. May also include:
- MATE OUT OF SERVICE = The switch has not been accepted because the DLN's do not reflect acceptable states.
- RING IS IN SILENCE STATE = Communication both to and from the node is not available at this time.

PF = Printout follows. The request has been accepted. Output message SW:DLN will follow.

5. REFERENCES

Output Message(s):

SW:DLN
SW:DNUSCC

**Software Release:** 5E14 and later
**Command Group:** SM
**Application:** 5
**Type:** Input

1. **PURPOSE**

Requests that the active/standby states of a digital networking unit - synchronous optical network (DNU-S) common controller (DNUSCC) be switched (interchanged).

Note: Both controllers must be in service before this message will be honored.

2. **FORMAT**

SW:DNUSCC=a-b;

3. **EXPLANATION OF MESSAGE**

a = Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

b = DNU-S number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. **SYSTEM RESPONSE**

NG = No good. The message form is valid, but the request conflicts with the current status.

PF = Printout follows. A SW:DNUSCC output message follows.

RL = Retry later. The request cannot be executed now due to unavailable system resources.

5. **REFERENCES**

Output Message(s):

SW:DNUSCC

Input Appendix(es):

APP:RANGES

Other Manual(s):

235-105-110 System Maintenance Requirements and Tools
235-105-220 Corrective Maintenance

MCC Display Page(s):

1510 (DNUS STATUS)
SW:DNUSCD

Software Release: 5E14 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Requests that the active/standby states of a digital networking unit - synchronous optical network (DNU-S) common data (DNUSCD) be switched (interchanged).

2. FORMAT

SW:DNUSCD=a-b-c[,CONTROL];

3. EXPLANATION OF MESSAGE

CONTROL = This option applies only to the DNUSCDs on data group 0 where both DNUSCDs are OOS. If CONTROL is specified, the control link to the active DNUSCC is switched to the other DNUSCD.

a = Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

b = DNU-S number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

c = Data group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

NG = No good. The message form is valid, but the request conflicts with the current status.

PF = Printout follows. A SW:DNUSCD output message follows.

RL = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

Output Message(s):

SW:DNUSCD

Input Appendix(es):

APP:RANGES

Other Manual(s):
235-105-110 System Maintenance Requirements and Tools
235-105-220 Corrective Maintenance
MCC Display Page(s):

1510 (DNUS STATUS)
SW:DNUSEOC

**Software Release:** 5E14 and later  
**Command Group:** SM  
**Application:** 5  
**Type:** Input

1. **PURPOSE**

Requests that the active and standby states of remote terminal (RT) embedded operations channel (EOC) circuits be switched (interchanged). This message is applicable for TR303 RTs (that is, AT&T Series 5 RTs running Feature Package 303G) terminating on a digital networking unit - synchronous optical network (DNU-S).

2. **FORMAT**

SW:DNUSEOC=a-b-c[,UCL];

3. **EXPLANATION OF MESSAGE**

- **UCL** = Unconditionally execute the switch. Will perform a forced switch when one EOC is active and the other is standby or out of service as long as the EOC being switched to is available.
- **a** = Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
- **b** = DNU-S number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
- **c** = RT number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. **SYSTEM RESPONSE**

- **NG** = No good. The request has been denied. The message is valid but the request conflicts with current status.
- **PF** = Printout follows. An SW:DNUSEOC output message will follow.
- **RL** = Retry later. The request cannot be executed now due to unavailable system resources.

5. **REFERENCES**

**Output Message(s):**

SW:DNUSEOC

**Input Appendix(es):**

APP:RANGES

**Other Manual(s):**

235-105-110  *System Maintenance Requirements and Tools*
235-105-220  *Corrective Maintenance*
MCC Display Page(s):

1660,xxxx (TR303 REMOTE TERMINAL)
SW::DNUSTMC
Software Release: 5E14 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE
Requests that the active and standby states of remote terminal (RT) timeslot management channel (TMC) circuits be switched (interchanged). This message is applicable for TR303 RTs (that is, Series 5 RTs running Feature Package 303G) terminating on a digital networking unit - synchronous optical network (DNU-S).

2. FORMAT
SW::DNUSTMC=a-b-c[,UCL];

3. EXPLANATION OF MESSAGE
UCL = Unconditionally execute the switch. Will perform a forced switch when one TMC is active and other is standby or out of service as long as the TMC being switched to is available.

a = Switching module (SM) number. Refer to the APP::RANGES appendix in the Appendixes section of the Input Messages manual.

b = DNU-S number. Refer to the APP::RANGES appendix in the Appendixes section of the Input Messages manual.

c = RT number. Refer to the APP::RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE
NG = No good. The request has been denied. The message is valid but the request conflicts with current status.

PF = Printout follows. Followed by the SW::DNUSTMC output message.

RL = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES
Output Message(s):

SW::DNUSTMC

Input Appendix(es):

APP::RANGES

Other Manual(s):
235-105-110 System Maintenance Requirements and Tools
235-105-220 Corrective Maintenance
MCC Display Page(s):

1660,xxxx (TR303 REMOTE TERMINAL)
SW:FPC

Software Release: 5E14 and later
Command Group: CM
Application: 5
Type: Input

1. PURPOSE

Requests a switch of the foundation peripheral controller (FPC) unit. One FPC should be active and the other should be standby to allow a switch.

This input message also stimulates the communication link normalization program (CLNORM) to analyze the resulting FPC and communication module processor (CMP) configuration and, under certain circumstances, modify it. CLNORM will modify the configuration in the following manner. When message switch (MSGS) sides have an unequal number of communication links, CLNORM will attempt to keep the active FPC and active CMP configured to the MSGS side that carries the largest number of communication links. This is to reduce an administrative module (AM) performance degradation condition known as message hairpinning. To ensure that CLNORM does not switch FPCs and CMPs back to the previous configuration, all MSGS hardware should be in service and communication links normalized before this input message is entered. When MSGS sides have an equal number of communication links (the normal case), CLNORM will attempt to keep the active FPC and the active CMP on opposite MSGS sides. In this case, an FPC switch will also indirectly produce a switch of the CMP. Likewise, a switch of the CMP will indirectly produce a switch of the FPC. CLNORM keeps these units on separate sides so as to more evenly distribute message traffic between MSGS sides. During periods of repair or installation, this activity by CLNORM can be inhibited by entering the INH:CLNORM,FPC and/or the INH:CLNORM,CMP input message.

2. FORMAT

SW:FPC;

3. EXPLANATION OF MESSAGE

No variables.

4. SYSTEM RESPONSE

NG = No good. The request has been denied. The message syntax is valid, but the request could not be processed. Refer to the APP:CM-IM-REASON appendix in the Appendixes section of this manual for a list of possible reasons for denying the request.

PF = Printout follows. The request was accepted. An SW:FPC output message follows.

RL = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

Input Message(s):

ALW:CLNORM
INH:CLNORM
OP:CFGSTAT
RST:FPC
Output Message(s):

OP: CFGSTAT-CM
RST: FPC
SW: FPC

Input Appendix(es):

APP: CM-IM-REASON

Other Manual(s):
235-105-110 System Maintenance Requirements and Tools
235-105-220 Corrective Maintenance
235-105-250 System Recovery Procedures

MCC Display Page(s):

1241, 1251 (MSGS COMMUNITIES)
1240, 1250 (MSGS STATUS for CM3)
**SW:GDXCON**

Software Release: 5E14 and later  
Command Group: SM  
Application: 5  
Type: Input

1. **PURPOSE**

Requests that a gated diode crosspoint controller (GDXCON) be switched from the standby to the active state.

To allow a switch, the configuration of the GDXCONs must be active-standby; the message does not work for other configurations (such as unavailable and out-of-service).

2. **FORMAT**

   \[ \text{SW:GDXCON}=a-b; \]

3. **EXPLANATION OF MESSAGE**

   \[ a \]  
   = Switching module number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

   \[ b \]  
   = Line unit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. **SYSTEM RESPONSE**

   \[ \text{PF} \]  
   = Printout follows. Followed by SW:GDXCON output message.

5. **REFERENCES**

   Output Message(s):  
   \[ \text{SW:GDXCON} \]

   Input Appendix(es):  
   \[ \text{APP:RANGES} \]
SW:IDCU

Software Release: 5E14 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Requests that the active and standby integrated digital carrier unit (IDCU) service group circuits be switched (interchanged).

2. FORMAT

SW:IDCU=a-b;

3. EXPLANATION OF MESSAGE

a = Switching module (SM) number.
b = IDCU number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

NG = No good. The request has been denied. The message is valid but the request conflicts with current status.
Pf = Printout follows. An SW:IDCU output message will follow.
RL = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

Output Message(s):

SW:IDCU

Output Appendix(es):

APP:RANGES

Other Manual(s):
235-105-110 System Maintenance Requirements and Tools
235-105-220 Corrective Maintenance

MCC Display Page(s):

186x (IDCU CIRCUIT)
SW:IDCUEOC

Software Release: 5E14 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Requests that the active and standby states of remote terminal (RT) embedded operations channel (EOC) circuits be switched (interchanged). This message is applicable for TR303 RTs (that is, AT&T Series 5 RTs running Feature Package 303G) terminating on an integrated digital carrier unit (IDCU).

2. FORMAT

SW:IDCUEOC=a-b-c[,UCL];

3. EXPLANATION OF MESSAGE

UCL = Unconditionally execute the switch. Will perform a forced switch when one EOC is active and the other is standby or out of service as long as the EOC being switched to is available.

a = Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

b = IDCU number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

c = RT number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

NG = No good. The request has been denied. The message is valid but the request conflicts with current status.

PF = Printout follows. An SW:IDCUEOC output message will follow.

RL = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

Output Message(s):

SW:IDCUEOC

Input Appendix(es):

APP:RANGES

Other Manual(s):
235-105-110 System Maintenance Requirements and Tools
235-105-220 Corrective Maintenance
MCC Display Page(s):

1880,x,yy (IDCU REMOTE TERMINAL)
SW:IDCUTMC

Software Release: 5E14 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Requests that the active and standby states of remote terminal (RT) timeslot management channel (TMC) circuits be switched (interchanged). This message is applicable for TR303 RTs (that is, AT&T Series 5 RTs running Feature Package 303G) terminating on an integrated digital carrier unit (IDCU).

2. FORMAT

SW:IDCUTMC=a-b-c[,UCL];

3. EXPLANATION OF MESSAGE

UCL = Unconditionally execute the switch. Will perform a forced switch when one TMC is active and other is standby or out of service as long as the TMC being switched to is available.

a = Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

b = IDCU number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

c = RT number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

NG = No good. The request has been denied. The message is valid but the request conflicts with current status.

PF = Printout follows. Followed by the SW:IDCUTMC output message.

RL = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

Output Message(s):

SW:IDCUTMC

Input Appendix(es):

APP:RANGES

Other Manual(s):
235-105-110 System Maintenance Requirements and Tools
235-105-220 Corrective Maintenance
MCC Display Page(s):

1880,x,yy (IDCU REMOTE TERMINAL)
SW:ISLUCC

- **Software Release:** 5E14 and later
- **Command Group:** SM
- **Application:** 5
- **Type:** Input

1. **PURPOSE**

Requests that the active/standby states of the integrated services line unit common controller (ISLUCC) be switched (interchanged).

*Note:* Both controllers must be in service before this message will be honored.

2. **FORMAT**

   $SW:ISLUCC=a-b;$

3. **EXPLANATION OF MESSAGE**

   - $a =$ Switching module (SM) number.
   - $b =$ Integrated services line unit (ISLU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. **SYSTEM RESPONSE**

   - $NG =$ No good. The message form is valid, but the request conflicts with the current status.
   - $PF =$ Printout follows. An SW:ISLUCC output message will follow.
   - $RL =$ Retry later. The request cannot be executed now due to unavailable system resources.

5. **REFERENCES**

   **Output Message(s):**
   
   - SW:ISLUCC

   **Output Appendix(es):**
   
   - APP:RANGES

   **MCC Display Page(s):**
   
   - 170x (ISLU NETWORK)
   - 170xy (ISLU LINE GROUP)
SW:ISLUCD

Software Release: 5E14 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE
Requests that the active/standby states of the integrated services line unit common data (ISLUCD) be switched (interchanged).

2. FORMAT
SW:ISLUCD=a-b;

3. EXPLANATION OF MESSAGE
a = Switching module (SM) number.
b = Integrated services line unit (ISLU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE
NG = No good. The message form is valid, but the request conflicts with the current status.
PF = Printout follows. An SW:ISLUCD output message will follow.
RL = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES
Output Message(s):
SW:ISLUCD

Output Appendix(es):
APP:RANGES

MCC Display Page(s):
170x (ISLU NETWORK)
170xy (ISLU LINE GROUP)
SW:IWGLI

**Software Release:** 5E15 and later  
**Command Group:** SM  
**Application:** 5  
**Type:** Input

1. **PURPOSE**

Requests that the active/standby of an inter-working gateway link interface (IWGLI) be switched (interchanged).

2. **FORMAT**

```
SW:IWGLI=a-b-c
```

3. **EXPLANATION OF MESSAGE**

   a  =  Switch module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

   b  =  Inter-working gateway (IWG) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

   c  =  Data group (DG) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. **SYSTEM RESPONSE**

   NG  =  No good. The request has been denied. The message is valid but the request conflicts with current status.

   PF  =  Printout follows. Followed by the SW:IWGLI output message.

   RL  =  Retry later. The request cannot be executed now due to unavailable system resources.

5. **REFERENCES**

**Input Message(s):**

   ABT:IWGLI  
   DGN:IWGLI  
   RMV:IWGLI  
   RST:IWGLI  
   STP:IWGLI

**Output Message(s):**

   SW:IWGLI

**Input Appendix(es):**

   APP:RANGES
Other Manual(s):
235-105-110  System Maintenance Requirements and Tools
235-105-220  Corrective Maintenance

MCC Display Page(s):
1340,y (IWG)
SW:LUOMIC
Software Release: 5E14 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Requests that the selection of line unit common data and control (LUOMIC) circuits for gated diode crosspoint (GDX) control be switched.

For this message to be executed, the configuration of the LUOMICs must be active/active; the message does not work for other configurations (such as active and out-of-service).

2. FORMAT

SW:LUOMIC=a-b;

3. EXPLANATION OF MESSAGE

a = Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

b = Line unit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

NG = No good. May also include:
   - SM DOES NOT EXIST = The message syntax is valid, but the requested SM is not in the system.
   - SM UNEQUIPPED = The message syntax is valid, but the requested SM is unequipped.
   - UNIT DOES NOT EXIST = The message syntax is valid, but the requested unit is not in the system.

PF = Printout follows. Followed by the SW:LUOMIC output message.

RL = Retry later. The request cannot be executed now due to unavailable system resources resulting in loss of communication to the requested switching module.

5. REFERENCES

Output Message(s):
   SW:LUOMIC

Input Appendix(es):
   APP:RANGES
SW: MCTSI

Software Release: 5E14 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Requests that a module controller/time slot interchange (MCTSI) be switched from standby to active.

To allow a switch, the configuration of the module controller/time slot interchanges (MCTSIs) must be active-standby; the message does not work for other configurations (such as unavailable and out-of-service).

2. FORMAT

SW: MCTSI=a;

3. EXPLANATION OF MESSAGE

a = Switching module (SM) number. Refer to the APP: RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

PF = Printout follows. Followed by the SW:MCTSI output message.

5. REFERENCES

Output Message(s):

SW: MCTSI

Input Appendix(es):

APP: RANGES
SW:MHD
Software Release: 5E14 and later
Command Group: AM
Application: 5
Type: Input

1. PURPOSE

Requests a software switch of the logical names of the moving head disks (MHDs). This message allows any two MHDs in the office to swap identity for the purpose of file access. This allows disk memory to be remotely configured should a disk fail in an unstaffed office.

For example, if MHD 1; had a failure and the office had a spare MHD connected into the system as MHD 15, the two could swap identity with by entering:

SW:MHD=1:MHD=15;

After this message completes, MHD 15 will act as if it were MHD 1; for the purpose of file access. When MHD 15 is restored to service, it will get a copy of MHD 0 files, and MHD 0 and MHD 15 will be the primary duplex MHD pair.

Any time a primary MHD needs to be swapped, the ideal choice would be to swap it with the warm spare on the same disk file controller (DFC). For example, the superior swap choice for MHD 0 would be MHD 14, and the choice for MHD 1; would be MHD 15. This would prevent both primary disks from depending on the same DFC. If there are no warm spares available for swapping, then another MHD can be selected.

The system can continue to operate for an indefinite time with a reconfiguration in effect. Because the reconfiguration consists of equipment configuration data base (ECD) changes, care should be taken so that an incore activate does not copy the changes to disk. However, because the reconfiguration is incore only, a level 53 or higher boot will restore the original MHD configuration.

If both MHD 0 and MHD 1; have been swapped, the system will most likely NOT recover from a level* or higher boot. You should avoid this configuration, if possible.

Format 1 is used to swap an MHD with either a specified MHD or a system-selected MHD. (If both MHDs are specified, then they both must be out-of-service (OOS)).

Format 2 is used to restore either a specified MHD or all MHDs to their standard configuration.

2. FORMAT

[1] SW:MHD=a:[MHD=b|REPLACE];
[2] SW:MHD=[c|ALL]:STANDARD;

3. EXPLANATION OF MESSAGE

ALL = Restore all MHDs in the office.
REPLACE = System selected MHD to be substituted.
a = Number of the MHD to be replaced, typically the faulty OOS device. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
b = Number of the MHD to be substituted. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
= Number of the MHD to have its configuration restored. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

NG = No good. May also include:
- CAN'T SWITCH MHD WITH ITSELF = MHD 'a' cannot be the same value as MHD 'b'.

PF = Printout follows. The message was accepted. Followed by one or more REPT:SW-MHD output messages. If either MHD is marked essential, then degrowth and growth messages will also follow.

RL = Retry later. May also include:
- PREVIOUS 'SW:MHD' COMMAND IN PROGRESS = The message was accepted, and one or more REPT:SW-MHD output.
- PREVIOUS COMMAND IN PROGRESS = System is unable to honor an additional request at this time.

5. REFERENCES

Input Message(s):

OP:MHD-CFG

Output Message(s):

OP:MHD
REPT:MHD-CONFIG
REPT:SW-MHD

Input Appendix(es):

APP:RANGES

Other Manual(s):

Where 'x' is the release-specific version of the document.

APP:RANGES
SW:NCOSC-A

Software Release: 5E14 only
Command Group: CM
Application: 5
Type: Input

1. PURPOSE

Requests that the network clock 2 oscillator (NCOSC) used to provide the time base signal be switched to the specified network clock side from the one currently in use to the other oscillator.

For example, network clock side 0 is using NCOSC 1 for its time-base signal. The input message SW:NCOSC=0 will make NCOSC 0 the active oscillator for side 0.

2. FORMAT

SW:NCOSC=a;

3. EXPLANATION OF MESSAGE

a = Network clock unit side for which the switch of active oscillator unit is requested. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

NG = No good. The message syntax is valid, but the request conflicts with the current system or equipment status.
OK = Good. The request was accepted and completed.
PF = Printout follows. Followed by the SW:NCOSC output message.
RL = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

Input Message(s):
RST:NCOSC

Output Message(s):
REPT:NC
SW:NCOSC

Input Appendix(es):
APP:RANGES

MCC Display Page(s):
1. PURPOSE

Switches the active network clock oscillator (NCOSC) to the specified side. Valid for network clock (NC) model 2 or 3.

For NC model 2: The command may be applied when both oscillators are active.

For NC model 3: The command will only be accepted when the oscillators are in an ACTIVE/STANDBY configuration. This configuration only exists when the ONTCs are simplex, since when the ONTCs are duplexed, each ONTC side uses its respective near oscillator and the oscillator states are ACTIVE/ACTIVE. When the ONTCs are simplex and neither oscillator is out of service, the ONTC will use the ACTIVE oscillator and the other one will be in the STANDBY state. This command can be used to switch the ACTIVE/STANDBY configuration by specifying the STANDBY oscillator in the command.

2. FORMAT

SW:NCOSC=a;

3. EXPLANATION OF MESSAGE

a = Network clock unit side for which the switch of active oscillator unit is requested. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

NG = No good. The message syntax is valid, but the request conflicts with the current system or equipment status.

OK = Good. The request was accepted and completed.

PF = Printout follows. Followed by the SW:NCOSC output message.

RL = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

Input Message(s):

RST:NCOSC

Output Message(s):

REPT:NC
SW:NCOSC
Input Appendix(es):

APP: CM–IM–REASON
APP: RANGES

MCC Display Page(s):

1210(NETWORK CLOCK)
1211(NETWORK CLOCK REFERENCES)
SW:NCREF-A

Software Release: 5E14 only
Command Group: CM
Application: 5
Type: Input

1. PURPOSE

Requests that a network clock reference (NCREF) be switched to the specified clock reference source. This reference switch will occur on both clock sides as a result of this message.

2. FORMAT

SW:NCREF,a;

3. EXPLANATION OF MESSAGE

\(a\) = Network clock reference requested to be made active.

<table>
<thead>
<tr>
<th>NC1</th>
<th>NC2</th>
</tr>
</thead>
<tbody>
<tr>
<td>PRIM</td>
<td>Primary reference.</td>
</tr>
<tr>
<td>SEC</td>
<td>Secondary reference.</td>
</tr>
<tr>
<td>REF(n)</td>
<td>Reference number, (n=1-8).</td>
</tr>
</tbody>
</table>

4. SYSTEM RESPONSE

NG = No good. The request has been denied. The message syntax is valid, but the request conflicts with the current system or equipment status.
PF = Printout follows. The request has been received. Followed by the SW:NCREF output message.
RL = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

Input Message(s):

RST:NCREF

Output Message(s):

SW:NCREF

Input Appendix(es):

APP:CM–IM–REASON

Other Manual(s):

235-105-110 System Maintenance Requirements and Tools
235-105-220 Corrective Maintenance

MCC Display Page(s):
1210 (MI/LI/NC)
1211 (NETWORK CLOCK)
SW:NCREF-B
Software Release: 5E15 and later
Command Group: CM
Application: 5
Type: Input

1. PURPOSE
Requests that a network clock reference (NCREF) be switched to the specified clock reference source. This reference switch will occur on both clock sides as a result of this message.

2. FORMAT

SW:NCREF,a[,TYPE=b];

3. EXPLANATION OF MESSAGE

\( a \) = Network clock reference requested to be made active.

<table>
<thead>
<tr>
<th>NC1</th>
<th>NC2 or NC3</th>
</tr>
</thead>
<tbody>
<tr>
<td>PRIM</td>
<td>REFs</td>
</tr>
<tr>
<td>SEC</td>
<td>Reference number, ( n=1-8 ).</td>
</tr>
</tbody>
</table>

\( b \) = Reference Type. This is only legal for NC3. This is only required if the same reference number is equipped with different reference types. The values are:

- 10M = 10 MHz analog clock reference.
- 2M = 2.048 MHz analog clock reference.
- CC = 64K Composite clock reference.
- DGTL = Digital clock reference.

4. SYSTEM RESPONSE

NG = No good. The request has been denied. The message syntax is valid, but the request conflicts with the current system or equipment status.

PF = Printout follows. The request has been received. Followed by the SW:NCREF output message.

RL = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

Input Message(s):

RST:NCREF

Output Message(s):

SW:NCREF
Input Appendix(es):

APP : CM – IM – REASON
APP : RANGES

Other Manual(s):
235-105-110 System Maintenance Requirements and Tools
235-105-220 Corrective Maintenance

MCC Display Page(s):
1210 (NETWORK CLOCK)
1211 (NETWORK CLOCK REFERENCES)
SW:OFLBOOT

Software Release: 5E14 and later
Command Group: MAINT
Application: 5,3B
Type: Input

1. PURPOSE

To perform a call processing side switch. This input message may be used only after a `REPT OFLBOOT BOOT COMPLETED` message has been received.

This input message may be used to switch call processing to the other side. After the switch, call processing is handled by the new on-line side, and the previous on-line side becomes the off-line side. The system remains split. A `STOP:OFLBOOT` is needed to return to duplex configuration. There are some restrictions the user must follow for this input message to execute successfully:

- There should be no diagnostic activities running.
- The maintenance teletypewriter (MTTY) and receive-only printer (ROP) port selector switches must be in the AUTO position and the portswitch controller must be powered on.

2. FORMAT

`SW:OFLBOOT: [, UCL];`

3. EXPLANATION OF MESSAGE

`UCL` = If specified, some application precheck results will be overridden. The UNIX® RTR precheck results will not be overridden. The default is enforce all precheck results.

4. SYSTEM RESPONSE

`IP` = In progress.
`?A` = Action field error.
`?E` = Error exists in the message.
`?I` = Identification field error.

5. REFERENCES

Input Message(s):

```
EXC:OFLBOOT
STOP:OFLBOOT
```

Output Message(s):

```
EXC:OFLBOOT
REPT:OFLBOOT
STOP:OFLBOOT
```
SW:ONTC

Software Release: 5E14 and later
Command Group: CM
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Requests that the activity of the office network and timing complex (ONTC) be switched. Both ONTC and ONTC 1; must be in service to perform a switch.

WARNING: This message may be service affecting. If the ONTC is unconditionally switched, switching modules may become isolated. If this message is used without the UCL option, checks will be made to insure that switching the ONTC will not affect service.

2. FORMAT

SW:ONTC[,UCL];

3. EXPLANATION OF MESSAGE

UCL = Switch the ONTC unconditionally. This option can be used to switch ONTC sides when the ACT MINOR side is degraded. Refer to the WARNING in the Purpose section before using this option.

4. SYSTEM RESPONSE

NG = No good. The request has been denied. The message syntax is valid, but the request could not be processed. Refer to the APP:CM-IM-REASON appendix in the Appendixes section of the Input Messages manual for a list of possible reasons for denying the request.

PF = Printout follows.

RL = Retry later. The request cannot be executed now because the communication module (CM) deferred maintenance queue (DMQ) is full.

5. REFERENCES

Input Message(s):

OP:CFGSTAT
RST:ONTC

Input Appendix(es):

APP:CM-IM-REASON

Output Message(s):
OP: CFGSTAT
RST: ONTC
SW: ONTC
SW:PLTLK

**Software Release:** 5E15 and later  
**Command Group:** SM  
**Application:** 5  
**Type:** Input

1. **PURPOSE**

Requests that the active/standby states of a PCTFI (Peripheral Control and Timing Facility Interface) be switched (interchanged). This command is honored only if the PCT links are in ACT/STBY configuration.

2. **FORMAT**

\[ SW:PLTLK=a-b-c; \]

3. **EXPLANATION OF MESSAGE**

   a = Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

   b = PLTU (PCT Line and Trunk Unit) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

   c = PCT Facility Interface number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. **SYSTEM RESPONSE**

   NG = No good. Valid values are:
   
   - REASON FOR NG = The message form is valid, but the request conflicts with current status.

   PF = Printout follows. A SW PLTLK output message follows.

   RL = Retry later. The request cannot be executed now due to unavailable system resource.

5. **REFERENCES**

Input Message(s):

   ABT:PLTLK  
   DGN:PLTLK  
   STP:PLTLK  
   RMV:PLTLK  
   RST:PLTLK

Output Message(s):

   SW:PLTLK

Input Appendix(es):
APP: RANGES

Other Manual(s):

235-105-110   System Maintenance Requirements and Tools
235-105-220   Corrective Maintenance

MCC Display Page(s):

1430 (PLTU Status page)
SW:PORTSW

Software Release: 5E14 and later
Command Group: AM
Application: 5,3B
Type: Input

1. PURPOSE

Requests a switch of the maintenance teletypewriter controller’s (MTTYC’s) receive-only printer (ROP) and/or
maintenance teletypewriter (MTTY) to the alternate MTTYC and a switch of the active/standby status of the MTTY
and/or ROP. The switch can succeed only if the alternate MTTYC and its MTTY and/or ROP are in an acceptable
state. If no switchable device is specified, both the MTTY and ROP are switched to the alternate MTTYC.

2. FORMAT

SW:PORTSW[,a];

3. EXPLANATION OF MESSAGE

a = Port switchable subdevice name (MTTY or ROP).

4. SYSTEM RESPONSE

NG = No good. Bad open on equipment configuration database (ECD) or the subdevice must be MTTY
    or ROP.

PF = Printout follows. Followed by the SW:PORTSW output message.

?I = Extra keywords.

5. REFERENCES

Output Message(s):

SW:PORTSW

MCC Display Page(s):

(COMMON PROCESSOR DISPLAY)
SW:PPC

Software Release: 5E14 and later
Command Group: CM
Application: 5
Type: Input

1. PURPOSE
Requests that the activity of the pump peripheral controller (PPC) be switched. The PPCs must be active standby to allow a switch.

Note: A switch PPC request will be denied if the active PPC is currently being used to pump an SM.

2. FORMAT
SW:PPC;

3. EXPLANATION OF MESSAGE
No variables.

4. SYSTEM RESPONSE

NG = No good. The message was invalid.

PF = Printout follows. Followed by the SW:PPC output message.

RL = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

Input Message(s):

OP:CFGSTAT
RST:PPC

Output Message(s):

OP:CFGSTAT-CM
RST:PPC
SW:PPC

Other Manual(s):
235-105-110 System Maintenance Requirements and Tools
235-105-220 Corrective Maintenance
235-105-250 System Recovery Procedures

MCC Display Page(s):

1241, 1251 (MSGS COMMUNITIES)
1240, 1250 (MSGS STATUS for CM3)
1. PURPOSE

Request that the active/standby states of a packet switch unit (PSU) asynchronous transfer mode (ATM) link (PSALNK) channels be switched.

2. FORMAT

SW:PSALNK=a-b-c;

3. EXPLANATION OF MESSAGE

a = Switching module (SM). Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

b = PSU number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

c = ATM link number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

NG = No good. The request has been denied. The message is valid but the request conflicts with current equippage or status. Refer to the APP:SYS-RESPONSE appendix in the Appendixes section of the Input Messages manual.

PF = Printout follows. Followed by the SW:PSALNK output message.

RL = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

Input Message(s):

CLR:PSALNK
SET:PSALNK

Output Message(s):

SW:PSALNK

Input Appendix(es):

APP:RANGES
APP:SYS-RESPONSE
MCC Display Page(s):
1187,y,x PSU/ATM LINKS STATUS (where y=PSU number and x=SM number)
1. PURPOSE

Request that the active/standby states of the packet switch unit (PSU) link (PSLNK) channels be switched.

A PSU link is uniquely identified by the community addresses (CAs) of two PSUs that this PSU link connects. The near end PSU CA can be entered directly in the input message line or can be translated by the switch from the entered PSU equipment number. However, the far end CA can not be specified by the PSU equipment number and must always be entered as PSU CA. NOTE: For gateway protocol handlers (PH) the only valid input message format is #4. Other formats will not yield the expected results.

2. FORMAT

[1] SW:PSLNK=a-b;

[2] SW:PSLNK,PSUCA=a,FARCA=b;

[3] SW:PSLNK,PSU=c-0,FARCA=b;

[4] SW:PSLNK,PSUCA=a;

3. EXPLANATION OF MESSAGE

a = Near PSU community address of the PSU link.

b = Far PSU community address of the PSU link.

Note: The far end CA must be zero if the PSU link is connected to an asynchronous transfer mode (ATM) switch in a point-to-multipoint configuration network.

c = Switching module (SM) number.

4. SYSTEM RESPONSE

NG = No good. The request has been denied. The message is valid but the request conflicts with current equippage or status.

PF = Printout follows. Followed by the SW:PSLNK output message.

RL = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

Input Message(s):

CLR:PSLNK
SET:PSLNK
Output Message(s):

SW: PSLNK

MCC Display Page(s):

PSU LINKS STATUS
1. PURPOSE

Request that the active/standby states of the packet switch unit (PSU) link (PSLNK) channels be switched.

A PSU link is uniquely identified by the community addresses (CAs) of two PSUs that this PSU link connects. The near end PSU CA can be entered directly in the input message line or can be translated by the switch from the entered PSU equipment number. However, the far end CA can not be specified by the PSU equipment number and must always be entered as PSU CA.

2. FORMAT

[1] SW:PSLNK=a-b;

[2] SW:PSLNK,PSUCA=a,FARCA=b;

[3] SW:PSLNK,PSU=c-d,FARCA=b;

3. EXPLANATION OF MESSAGE

a = Near PSU community address of the PSU link. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

b = Far PSU community address of the PSU link. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

NOTE: The far end CA must be zero if the PSU link is connected to an asynchronous transfer mode (ATM) switch in a point-to-multipoint configuration network.

c = Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

d = PSU number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

NG = No good. The request has been denied. The message is valid but the request conflicts with current equippage or status. Refer to the APP:SYS-RESPONSE appendix in the Appendixes section of this Input Messages manual.

PF = Printout follows. Followed by the SW:PSLNK output message.

RL = Retry later. The request cannot be executed now due to unavailable system resources.
5. REFERENCES

Input Message(s):
CLR:PSLNK
SET:PSLNK

Output Message(s):
SW:PSLNK

MCC Display Page(s):
1187.y PSU LINKS STATUS (where y=PSU number)
1. **PURPOSE**

Requests that the active/standby states of the packet switch unit (PSU) common controllers (COM) be switched (interchanged).

2. **FORMAT**

   SW:PSUCOM=a-b;

3. **EXPLANATION OF MESSAGE**

   a = Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

   b = PSU number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. **SYSTEM RESPONSE**

   NG = No good. The message form is valid, but the request conflicts with current status.

   PF = Printout follows. Followed by the SW:PSU output message.

   RL = Retry later. The request cannot be executed now due to unavailable system resources.

5. **REFERENCES**

   Output Message(s):

   SW:PSUCOM

   Input Appendix(es):

   APP:RANGES

   MCC Display Page(s):

   118x (PSU SHELF)
   1186 (PSU NETWORK)
SW:PSUCOM-B

Software Release: 5E16(1) and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Requests that the active/standby states of the packet switch unit (PSU) common controllers (COM) be switched (interchanged).

2. FORMAT

\[
\text{SW:PSUCOM}=a-b;
\]

3. EXPLANATION OF MESSAGE

\(a\) = Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

\(b\) = PSU number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

\(\text{NG}\) = No good. The message form is valid, but the request conflicts with current status.

\(\text{PF}\) = Printout follows. Followed by the SW:PSU output message.

\(\text{RL}\) = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

Output Message(s):

\[\text{SW:PSUCOM}\]

Input Appendix(es):

\[\text{APP:RANGES}\]

MCC Display Page(s):

\[\text{PSU SHELF}\]
\[\text{PSU NETWORK}\]
SW:PSUPH
Software Release: 5E14 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE
Requests that the active/standby states of the packet switch unit (PSU) protocol handlers (PH) be switched.

2. FORMAT
SW:PSUPH=a-b-c-d[,GRP=e];

3. EXPLANATION OF MESSAGE
a = Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
b = PSU number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
c = Shelf number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
d = PH number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
e = Channel group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE
NG = No good. The message form is valid, but the request conflicts with current status.
PF = Printout follows. An SW:PSUPH output message will follow.
RL = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES
Output Message(s):
SW:PSUPH

Input Appendix(es):
APP: RANGES

MCC Display Page(s):
118x (PSU SHELF)
SW:QLPS

Software Release: 5E14 and later
Command Group: CM
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Requests activation of a standby quad-link packet switch (QLPS) processor.

WARNING: The use of this input message with the unconditional option could result in the loss of transient calls/reduction in call processing capacity. Use with extreme caution!

2. FORMAT

SW:QLPS=a-b[,UCL];

3. EXPLANATION OF MESSAGE

UCL = Switch QLPS network unconditionally. Although this option cannot override the primary criteria not to increase the number of switching module-2000s (SM-2000s) which are isolated from both QLPS networks or all QGPs (if equipped), it is possible to reduce messaging capacity or enter overload, which would impact call processing.

a = Office network and timing complex (ONTC) side number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual. Note that this argument is required only to be consistent with other QLPS requests; irrespective of the 0 or 1 entry, an attempt will be made to switch QLPSs in the network designated by field 'b'.

b = QLPS network number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

NG = No good. The request has been denied. The message syntax was valid, but the request could not be processed. Refer to the APP:CM-IM-REASON appendix in the Appendixes section of the Input Messages manual for a list of possible reasons for denying the request.

PF = Printout follows.

RL = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

Output Message(s):

SW:QLPS
Input Appendix(es):

APP: CM-IM-REASON
APP: RANGES

Other Manual(s):
235-105-110  System Maintenance Requirements and Tools
235-105-220  Corrective Maintenance
235-105-250  System Recovery Procedures

MCC Display Page(s):

1209 (ONT C 0 & 1)
1380, 1381 (QLPS NETWORK STATUS)
SW:RCLK

Software Release: 5E14 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE
Requests that the status of active and standby remote clock (RCLK) circuits be switched.

2. FORMAT

SW:RCLK=a;

3. EXPLANATION OF MESSAGE

a = Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

NG = No good. May also include:
- NOT STARTED UNIT IN GROWTH STATE
- SM DOES NOT EXIST
- SM UNEQUIPPED
- UNIT DOES NOT EXIST

PF = Printout follows. Followed by the SW:RCLK output message.

RL = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

Output Message(s):

SW:RCLK

Input Appendix(es):

APP: RANGES

MCC Display Page(s):

1170 (RSM RCLK)
1. PURPOSE

Requests the switch of active remote clock oscillators (RCOSC) to the specified remote clock (RCLK) side. This is not actually switching the RCOSC, but is switching the RCLK timing source.

2. FORMAT

SW:RCOSC=a-b;

3. EXPLANATION OF MESSAGE

a = Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

b = RCLK side. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

NG = No good. May also include:
- NOT STARTED UNIT IN GROWTH STATE
- SM DOES NOT EXIST
- SM UNEQUIPPED
- UNIT DOES NOT EXIST

PF = Printout follows. Followed by the SW:RCOSC output message.

RL = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

Input Message(s):

- RMV:RCOSC
- RST:RCOSC

Output Message(s):

- SW:RCOSC

Input Appendix(es):

- APP:RANGES
MCC Display Page(s):

1170 (RSM RCLK)
SW:RCREF

Software Release: 5E14 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Requests that an active remote clock reference (RCREF) be switched to the specified clock reference.

2. FORMAT

SW:RCREF=a-b;

3. EXPLANATION OF MESSAGE

a = Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

b = Equipped reference number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

NG = No good. May also include:
- NOT STARTED UNIT IN GROWTH STATE
- SM DOES NOT EXIST
- SM UNEQUIPPED
- UNIT DOES NOT EXIST

PF = Printout follows. Followed by the SW:RCREF output message.

RL = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

Output Message(s):
   SW:RCREF

Input Appendix(es):
   APP:RANGES

MCC Display Page(s):
   1170 (RSM RCLK)
SW:RLI

Software Release: 5E14 and later  
Command Group: SM  
Application: 5  
Type: Input

1. PURPOSE

Requests that activity of the remote switching module (RSM) remote link interface (RLI) circuit be switched. This message is honored only if the RLI controllers are in an active/standby configuration.

2. FORMAT

SW:RLI=a-b;

3. EXPLANATION OF MESSAGE

a = Switching module number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

b = RLI number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual. The standby controller is made active regardless of this variable.

4. SYSTEM RESPONSE

NG = No good. Request denied because of a conflict with current status.

PF = Printout follows. Followed by the SW:RLI output message.

5. REFERENCES

Output Message(s):

SW:RLI

Input Appendix(es):

APP:RANGES
1. PURPOSE

Requests that the active/standby states of the remote integrated services line unit (RISLU) remote clock circuit packs (RRCLKs) be switched (interchanged).

Note: Both RRCLK packs must be in service before this message will be honored.

2. FORMAT

```plaintext
SW:RRCLK=a-b[,SCREEN=c];
```

3. EXPLANATION OF MESSAGE

- `a` = Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
- `b` = RISLU number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
- `c` = Although this option is syntactically correct, it is set internally for cross checking purposes and values entered here will be ignored.

4. SYSTEM RESPONSE

- `NG` = No good. May also include:
  - CONFLICT WITH UNIT STATE
  - SM DOES NOT EXIST
  - SM UNEQUIPPED
  - UNIT DOES NOT EXIST
- `PF` = Printout follows. Followed by the SW:RRCLK output message.
- `RL` = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

Output Message(s):

- RMV:RRCLK

Input Appendix(es):

- APP:RANGES
MCC Display Page(s):

145y,x (RISLU DLTU)
SW:RT-EOC

Software Release: 5E14 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Requests that the active and standby states of remote terminal (RT) embedded operations channel (EOC) circuits be switched (interchanged). This message is applicable for TR303 RTs (that is, Series 5 RTs running feature package 303G) terminating on an integrated digital carrier unit (IDCU) or a digital networking unit - synchronous optical network (DNU-S).

2. FORMAT

SW:RT,EOC=a[,UCL];

3. EXPLANATION OF MESSAGE

UCL = Unconditionally execute the switch. Will perform a forced switch when one EOC is active and the other is standby or out of service as long as the EOC being switched to is available.

a = Site identification number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

NG = No good. The request has been denied. The message is valid but the request conflicts with current status.

PF = Printout follows. Followed by the SW:RT-EOC output message.

RL = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

Output Message(s):

SW:RT-EOC

Input Appendix(es):

APP:RANGES

Other Manual(s):
235-105-110  System Maintenance Requirements and Tools
235-105-220  Corrective Maintenance

MCC Display Page(s):

1880.x.yy (IDCU REMOTE TERMINAL)
1660,xxxx (TR303 REMOTE TERMINAL)
SW:RT-TMC

**Software Release:** 5E14 and later  
**Command Group:** SM  
**Application:** 5  
**Type:** Input

1. **PURPOSE**

Requests that the active and standby states of remote terminal (RT) timeslot management channel (TMC) circuits be switched (interchanged). This message is applicable for TR303 RTs (that is, Series 5 RTs running feature package 303G) terminating on an integrated digital carrier unit (IDCU) or a digital networking unit - synchronous optical network (DNU-S).

2. **FORMAT**

SW:RT,TMC=a[,UCL];

3. **EXPLANATION OF MESSAGE**

- **UCL** = Unconditionally execute the switch. Will perform a forced switch when one TMC is active and the other is standby or out of service as long as the TMC being switched to is available.

- **a** = Site identification number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. **SYSTEM RESPONSE**

- **NG** = No good. The request has been denied. The message is valid but the request conflicts with current status.

- **PF** = Printout follows. Followed by the SW:RT-TMC output message.

- **RL** = Retry later. The request cannot be executed now due to unavailable system resources.

5. **REFERENCES**

**Output Message(s):**

SW:RT-TMC

**Input Appendix(es):**

APP:RANGES

**Other Manual(s):**

235-105-110  *System Maintenance Requirements and Tools*
235-105-220  *Corrective Maintenance*

**MCC Display Page(s):**

1880.x.yy (IDCU REMOTE TERMINAL)
1660,xxx (TR303 REMOTE TERMINAL)
SW:SERV

Software Release: 5E16(2) and later
Command Group: MAINT
Application: 5
Type: Input

1. PURPOSE

Requests the that the service selection of a processor group be switched.

A service selection switch is only allowed when one processor in the processor group is SERVING and the other is NON-SERVING. If a processor group is equipped with only one processor, a manual switch is not permitted.

2. FORMAT

SW:SERV, {PCRGRP=a-b|PSUPH=a-c-d-e};

3. EXPLANATION OF MESSAGE

a = Global services module (GSM) on which the processor group is equipped.
b = Processor group.
c = Packet switching unit (PSU) number.
d = PSU shelf number.
e = PH position number.

4. SYSTEM RESPONSE

?D = Input data error.
PF = Printout follows.
RL = Retry later.

5. REFERENCES

Input Message(s):

RMV:PSUPH

Output Message(s):

SW:SERV

Input Appendix(es):

APP : RANGES
**SW:SFI**

**Software Release:** 5E14 and later  
**Command Group:** SM  
**Application:** 5  
**Type:** Input

**WARNING:** INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. **PURPOSE**

Requests that the active/standby states of a digital networking unit - synchronous optical network (DNU-S) STSX-1 facility interface (SFI) be switched (interchanged).

**WARNING:** A switch of an SFI will generate transient errors on the facilities.

2. **FORMAT**

   \[ \text{SW:SFI}=a-b-c[,\text{UCL}] ; \]

3. **EXPLANATION OF MESSAGE**

   **UCL** = This option is required for an SFI switch since all facilities for the entire data group will be affected.

   **a** = Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

   **b** = DNU-S number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

   **c** = Data group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. **SYSTEM RESPONSE**

   **NG** = No good. The message form is valid, but the request conflicts with the current status.

   **PF** = Printout follows. Followed by the SW:SFI output message.

   **RL** = Retry later. The request cannot be executed now due to unavailable system resources.

5. **REFERENCES**

   **Output Message(s):**

   \[ \text{SW:SFI} \]

   **Input Appendix(es):**

   \[ \text{APP:RANGES} \]
Other Manual(s):
235-105-110 System Maintenance Requirements and Tools
235-105-220 Corrective Maintenance

MCC Display Page(s):
1510 (DNUS STATUS)
77. TELL
TELL:LIB

**Software Release:** 5E14 and later  
**Command Group:** ADMIN  
**Application:** 5  
**Type:** Input

1. PURPOSE

Provides the data string entered to the specified library program(s). No modification is made to the message. The library program is responsible for accepting the message from the library client supervisor, and acting on it as desired.

2. FORMAT

```
TELL:LIB:TEAM=a[,AM]{,SM=b[-b][-b][-b][-b]|,SM=c&&d},DATA=e;
```

3. EXPLANATION OF MESSAGE

- **AM** = Send the data to the library program running in the administrative module (AM) under this team.
- **a** = The team number (1-15) to which this input message applies. This number is specified in the LOAD:LIB input message, and is used so that more than one person may test at the same time, using different team numbers.
- **b** = Switching module (SM) number(s) to which the data is to be sent. A range could be used instead, as indicated.
- **c** = Lower limit of a range of SM numbers.
- **d** = Upper limit of a range of SM numbers.

**Note:** If neither the AM or any SMs are specified, the TELL:LIB message is sent to the AM and all SMs with clients loaded under the same team as that specified.

- **e** = The string of data to be passed to the client program.

4. SYSTEM RESPONSE

- **NG** = No good. Either the team number or SM number(s) is illegal. SMs that have not initialized cannot be sent messages.
- **PF** = Printout follows. Message has been sent to the SMs/AM or TEAM specified.

5. REFERENCES

Output Message(s):

```
TELL:LIB
```
78. TRC
TRC:CLID

Software Release: 5E14 and later
Command Group: TRACE
Application: 5
Type: Input

1. PURPOSE

Requests that a directory number (DN) be added to or deleted from the calling line identification (CLID) list.

Note: The CLID list contains directory numbers outside the office. When a call is made to a listed DN, the originating DN will be identified.

2. FORMAT

TRC:CLID:{ADD|DEL},DN=a;

3. EXPLANATION OF MESSAGE

Note: Refer to the Acronym Section of the Input Messages manual for the full expansion of any acronyms shown in the format.

a = Directory number to be added to or deleted from the CLID list.

4. SYSTEM RESPONSE

NG = No good. May also include:
- DUPLICATE DN = The number being added is already on the CLID list.
- INCORRECT STATE, USE ADD OR DEL = ADD enters the DN on the CLID list. DEL deletes the DN from the CLID list.
- LIST EMPTY = The CLID list does not contain any DNs.
- LIST FULL = CLID list is full. Remove one of the numbers on the CLID list to add a new DN.
- REENTER DN WITH NPA = The Office Code (NXX), is in multiple Numbering Plan Areas (NPA).
  Reenter the DN with an NPA.
- UNKNOWN DN = The number being deleted is not on the CLID list.

OK = Good. The request has been accepted and completed.

5. REFERENCES

Input Message(s):

OP:CLID

Output Message(s):

TRC:IPCT-EVENT
TRC:IPCT-FAILED
Other Manual(s):
235-105-210  Routine Operations and Maintenance
235-190-102  Business and Residence Non-Modular Features
1. PURPOSE

Requests an in-progress call trace (IPCT) by using either the directory number (DN), the multiline hunt group and member number (MLHG), the trunk group and member number (TKGMN), or the process ID (PID) of the party to be traced.

For shared DN, only the primary DN will be traced. For MLHG, only the primary MLHG member will be traced. If DN corresponds to a line time slot bridging (LTSB) port, the call controller will be traced. For non-end trace (END=n), IPCT will only trace the call up to the intermodule trunk (IMT) if the call goes through an IMT.

IPCT does not apply to Direct Inward Dialing (DID) trunks because the trunk group and member number of DID trunks map to a group of ports, not to an individual port.

2. FORMAT

[1] TRC:IPCT:{DN=a|MLHG=b-c|TKGMN=d-e}[,HARDHOLD][,END=f];

[2] TRC:IPCT:PID=g-h-i[,END=f];

3. EXPLANATION OF MESSAGE

Note: Refer to the Acronym Section of the Input Messages manual for the full expansion of any acronyms shown in the format.

HARDHOLD = Call trace option for hardhold call. Default is for non-hardhold call trace.

a = DN of the line to be traced.

b = Group number of the multi-line hunt group of the line to be traced.

c = Member number of the multi-line hunt group of the line to be traced.

d = Trunk group of the trunk to be traced.

e = Member number of the trunk to be traced.

f = End trace flag. Valid value(s):
   y = End trace through IMT (default).
   n = Non-end trace.

g = Process number of the PID.

h = Switching module (SM) number of the PID.

i = Uniqueness number of the PID.

4. SYSTEM RESPONSE
PF = Printout follows. Followed by the TRC:IPCT output message.
- EVENT n = The trace request (identified by the event number 'n') has been accepted, and the specified line will be traced.

5. REFERENCES

Output Message(s):

   TRC:IPCT-EVENT
   TRC:IPCT-FAILED

Other Manual(s):
235-105-220    Corrective Maintenance
235-190-115    Local and Toll System Features
1. PURPOSE

Requests an in-progress call trace (IPCT) by using either the directory number (DN), the multiline hunt group and member number (MLHG), the trunk group and member number (TKGMN), the process ID (PID), or the origination point code, destination point code, and raw call instance code (OPCDPC) of the party to be traced.

For shared DN, only the primary DN will be traced. For MLHG, only the primary MLHG member will be traced. If DN corresponds to a line time slot bridging (LTSB) port, the call controller will be traced. For non-end trace (END=n), IPCT will only trace the call up to the intermodule trunk (IMT) if the call goes through an IMT. IPCT does not apply to Direct Inward Dialing (DID) trunks because the trunk group and member number of DID trunks map to a group of ports, not to an individual port.

2. FORMAT

[1] TRC:IPCT:{DN=a|MLHG=b-c|TKGMN=d-e}[,HARDHOLD][,END=f];
[2] TRC:IPCT:PID=g-h-i[,END=f];

3. EXPLANATION OF MESSAGE

Note: Refer to the Acronym Section of the Input Messages manual for the full expansion of any acronyms shown in the format.

HARDHOLD = Call trace option for hardhold call. Default is for non-hardhold call trace.

a = DN of the line to be traced.
b = Group number of the multi-line hunt group of the line to be traced.
c = Member number of the multi-line hunt group of the line to be traced.
d = Trunk group of the trunk to be traced.
e = Member number of the trunk to be traced.
f = End trace flag. Valid value(s):
y = End trace through IMT (default).
n = Non-end trace.
g = Process number of the PID.
h = Switching module (SM) number of the PID.
i = Uniqueness number of the PID.
j = Asynchronous Transfer Mode (ATM) origination point code (OPC) number.
k = ATM destination point code (DPC) number.

l = ATM raw call instance code (RCIC) number.

4. SYSTEM RESPONSE

PF = Printout follows. Followed by the TRC:IPCT output message. May also include:

- EVENT n = The trace request (identified by the event number 'n') has been accepted, and the specified line will be traced.

5. REFERENCES

Output Message(s):

TRC:IPCT-EVENT
TRC:IPCT-FAILED

Other Manual(s):
235-105-220 Corrective Maintenance
235-190-115 Local and Toll System Features
TRC:UTIL-A

Software Release: 5E14 only
Command Group: TRACE
Application: 5
Type: Input

1. PURPOSE

Requests a utility call trace snapshot of the resources used by an in-progress call, and to update the hardware call trace Master Control Center (MCC) page with new trace data.

2. FORMAT

   [1] TRC:UTIL:{DN=a|MLHG=b-c}[,CH=r][,PKT][,SA={o^1|ALL}][,CID=(n|ALL)][,HARDHOLD][,DDS=z];
   [2] TRC:UTIL:{LEN=d-e-f-g-h-i|SLEN=d-k-l-m|CKT=d-r^1|TS=d-h^1|LUCHAN=d-e-w-m^1-n^1}[,HARDHOLD];
   [3] TRC:UTIL:{TKGMN=b-c|DEN=d-a^1-b^1-c^1}[,PKT];
   [4] TRC:UTIL:{PID=j-d-l^1|TEN=d-v-w-x-y|NEN=d-e^1-g^1-b^2-i^1-c^2-j^1-k^1|RF=d-s-t|SAS=d-s-t};
   [8] TRC:UTIL:PORT=d-d^1{[,PKT] [,HARDHOLD]}[,DDS=z]};
   [9] TRC:UTIL:BST=p^1-q^1{[,CH=(D|B1)}];
   [10] TRC:UTIL:OPT=p^1-q^1{[,LOOP=u]}[,CH=(D|B1)}];

3. EXPLANATION OF MESSAGE

Note: Refer to the Acronym section of the Input Messages manual for the full expansion of acronyms shown in the format.

HARDHOLD = Call trace request option for hardhold call. Default is non-hardhold utility call trace. Hardhold is an analog only feature.

PKT = Packet utility call trace request. Default is non-packet utility call trace.

a = DN of the line to be traced. If DN corresponds to a line time slot bridging (LTSB) port, call controller will be traced.

b = Trunk or MLHG group number. Refer to the APP:RANGES appendix in the Appendixes section of
the Input Messages manual.

c = Trunk or MLHG member number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

d = Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

e = Integrated services line number (ISLU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

f = Grid number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

g = Switch board number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

h = Switch number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

i = Level number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

j = Process number of the PID.

k = Digital carrier line unit (DCLU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

l = Remote terminal (RT) number or IDCU DS1 serving PUB43801 number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

m = RT line number or PUB43801 channel. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

n = ID number of call on DN or MLHG (0-31). When ‘ALL’ is specified, all calls for this DN or MLHG are listed in chronological order. This option can only be used on DNs or MLHGs on standard, non-electronic key telephone set (EKTS) DSLs.

o = IDCU number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

p = Line group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

q = Line card number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

r = Channel identifier. Valid value(s):
   B1
   B2
   D (default)

s = RAF or SAS unit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
\( t \) = Announcement port number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

\( u \) = OPT operator call loop number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual. Defaults to active loop. Enter a zero to trace the active loop. This option can only be used with an OPT.

\( v \) = Trunk unit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

\( w \) = Service group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

\( x \) = Channel board number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

\( y \) = Circuit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

\( z \) = DDS path identifier: 1 or 2, default to 0. For use with dual path DDS only.

\( a^1 \) = Digital line and trunk unit (DLTU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

\( b^1 \) = Digital facility interface (DFI) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

\( c^1 \) = Channel number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

\( d^1 \) = Port name (key of PORTLA). Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

\( e^1 \) = Digital networking unit - SONET (DNU-S) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

\( f^1 \) = Circuit name (key of CDBCOM). Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

\( g^1 \) = Data group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

\( h^1 \) = Key of source time slot data block (TSDB) to be traced. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

\( i^1 \) = Synchronous transport signal (STS) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

\( j^1 \) = Virtual Tributary Member (VTM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

\( k^1 \) = Digital signal level 0 (DS0) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

\( l^1 \) = Uniqueness number of the PID.
4. SYSTEM RESPONSE

NG = No good. Includes one of the following:
- BAD CHANNEL = A channel type was specified on an analog line or a trunk.
- BAD OPTION = Incompatible options were selected.
- BAD SA/ID = A bad sub-address or ID number was specified.
- CIRCUIT DESCRIPTOR = A bad universal tone decoder (UTD), universal tone generator (UTG),
  LUCHAN, or CKT input was specified.
- IDLE SA/ID = The traced sub-address or ID was idle.
- INTERNAL ERROR = Undetermined errors, possibly a software bug. Retry the request at a later
time. This response may be accompanied by an assert.
- NOT PRIMARY DN/MLHG = The traced DN or MLHG is not primary on any terminal. Either input
  the primary DN/MLHG of the terminal you wish to trace or specify an SA number for
  this DN/MLHG.
- NOT PACKET = The PKT option was requested on a non-packet call.
- PORT DESCRIPTOR = A bad DN, LEN, LCEN, SLEN, MLHG, TKGMN, TEN, DEN, or PORT
  description was specified.
- REENTER DN WITH NPA = The office code (NXX), is in multiple numbering plan areas (NPA).
  Reenter the DN with an NPA.
- SA/ID NOT ALLOWED = A sub-address or ID number was specified on a line that does not use
  them.
- SM NOT OPERATIONAL = The SM where the trace should begin is not operational.
- TRACE NOT SUPPORTED ON SPECIFIED PORT = Traced port not supported.
- UNKNOWN INPUT = Input was not recognized.

OK = Okay. Includes the following:
- SEE STATUS PAGE = All sub-addresses or IDs for the DN or MLHG have been traced. The
  results are displayed on the TRACEABLE CALL STATUS MCC Display Page.

PF = Printout follows. Includes the following:
- EVENT n = The trace event (identified by the number 'n') has been accepted and is being
  processed. One or more TRC:UTIL output messages will follow.

RL = Retry later. Includes one of the following:
- MSG = Unable to send the message that starts the trace.
- TIMER = Unable to set a timer.
- TRACE IN PROGRESS = A trace is currently in progress.

5. REFERENCES

Input Message(s):

  OP: TRC

Output Message(s):

  TRC:UTIL-4WLN
  TRC:UTIL-CONF
  TRC:UTIL-FAILED
  TRC:UTIL-HSM
  TRC:UTIL-IDLE
  TRC:UTIL-LINE
  TRC:UTIL-LINK
  TRC:UTIL-PID
  TRC:UTIL-TRK
Input Appendix(es):

APP : RANGES

Other Manual(s):
235-105-110 Switch Maintenance Requirements and Tools
235-105-220 Corrective Maintenance Procedures
235-190-115 Local and Toll System Features

MCC Display Page(s):
131-132 (CALL TRACE MENU)
133-138 (HARDWARE CALL TRACE - 1 THROUGH 6)
139 (ISDN PACKET SWITCH CALL TRACE)
140 (HARDWARE CALL TRACE)
150 (TRACEABLE CALL STATUS)
151 (CONFERENCE CIRCUIT TRACE)
1. PURPOSE

Requests a utility call trace snapshot of the resources used by an in-progress call, and to update the hardware call trace Master Control Center (MCC) page with new trace data.

2. FORMAT

[1] TRC:UTIL:{DN=a|MLHG=b-c}[[,CH=r][,PKT][[,SA={o 1|ALL}][[,CID=(n|ALL)]][,HARDHOLD]][,DDS=z]};

[2] TRC:UTIL:{LEN=d-e-f-g-h-i|SLEN=d-k-l-m|CKT=d-f |TS=d-h |LUCCHAN=d-e-w-m1-n1}[[,HARDHOLD]};

[3] TRC:UTIL:{TKGMN=b-c|DEN=d-a1-b1-c1}[,PKT];

[4] TRC:UTIL:{PID=j-d-l1|TEN=d-v-w-x-y|NEN=d-e1-g1-b2-i1-c2-j1-k1|RAF=d-s-t |SAS=d-s-t};

[5] TRC:UTIL:LCEN=d-e-w1-q{[,CH=r][,PKT][[,HARDHOLD]}};

[6] TRC:UTIL:LCKEN=d-x1-p-v1-y1{[,CH=r][,PKT][[,HARDHOLD]}};

[7] TRC:UTIL:ILEN=d-o-l-m{[,CH=r][,PKT][[,HARDHOLD]][,DDS=z]};

[8] TRC:UTIL:PORT=d-d1{[,PKT][[,HARDHOLD]][,DDS=z]};

[9] TRC:UTIL:BST=p1-q1{[,CH=(D|B1)};

[10] TRC:UTIL:OPT=p1-q1{,LOOP=u}[,CH=(D|B1)};


[12] TRC:UTIL:INEN=d-e1-z1-a2{[,CH=r][,PKT][[,HARDHOLD]][,DDS=z]};

[13] TRC:UTIL:PLTEN=d-d2-e2-r2-c1;

[14] TRC:UTIL:OPCDPC=g2-h2-i2;

3. EXPLANATION OF MESSAGE

Note: Refer to the Acronym section of the Input Messages manual for the full expansion of acronyms shown in the format.

HARDHOLD = Call trace request option for hardhold call. Default is non-hardhold utility call trace. Hardhold is an analog only feature.

PKT = Packet utility call trace request. Default is non-packet utility call trace.
a = DN of the line to be traced. If DN corresponds to a line time slot bridging (LTSB) port, call controller will be traced.

b = Trunk or MLHG group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

c = Trunk or MLHG member number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

d = Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

e = Integrated services line number (ISLU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

f = Grid number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

g = Switch board number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

h = Switch number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

i = Level number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

j = Process number of the PID.

k = Digital carrier line unit (DCLU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

l = Remote terminal (RT) number or IDCU DS1 serving PUB43801 number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

m = RT line number or PUB43801 channel. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

n = ID number of call on DN or MLHG (0-31). When 'ALL' is specified, all calls for this DN or MLHG are listed in chronological order. This option can only be used on DNs or MLHGs on standard, non-electronic key telephone set (EKTS) DSLs.

o = IDCU number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

p = Line group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

q = Line card number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

r = Channel identifier. Valid value(s):

B1
B2
D (default)

s = RAF or SAS unit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

t = Announcement port number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

u = OPT operator call loop number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual. Defaults to active loop. Enter a zero to trace the active loop. This option can only be used with an OPT.

v = Trunk unit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

w = Service group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

x = Channel board number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

y = Circuit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

z = DDS path identifier: 1 or 2, default to 0. For use with dual path DDS only.

a = Digital line and trunk unit (DLTU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

b = Digital facility interface (DFI) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

c = Channel number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

d = Port name (key of PORTLA). Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

e = Digital networking unit - SONET (DNU-S) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

f = Circuit name (key of CDBCOM). Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

g = Data group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

h = Key of source time slot data block (TSDB) to be traced. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

i = Synchronous transport signal (STS) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

j = Virtual Tributary Member (VTM) number. Refer to the APP:RANGES appendix in the Appendixes
section of the Input Messages manual.

\[ k^1 \] = Digital signal level 0 (DS0) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

\[ l^1 \] = Uniqueness number of the PID.

\[ m^1 \] = Channel board number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

\[ n^1 \] = Channel circuit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

\[ o^1 \] = SA number of DN or MLHG. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual. When 'ALL' is specified, all busy SAs of this DN or MLHG are listed. This option can only be used with a DN or MLHG that uses sub-addresses.

\[ p^1 \] = Operator service center (OSC) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

\[ q^1 \] = Relative position number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

\[ r^1 \] = Packet switching unit (PSU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

\[ s^1 \] = PSU shelf number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

\[ t^1 \] = PSU channel group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

\[ u^1 \] = PSU channel group member number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

\[ v^1 \] = Line board number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

\[ w^1 \] = Line group controller number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

\[ x^1 \] = Integrated service line unit 2 (ISLU2) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

\[ y^1 \] = Line circuit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

\[ z^1 \] = Remote digital terminal (RDT) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

\[ a^2 \] = Line number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

\[ b^2 \] = Signaling terminal équipement (STE) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
c\(^2\) = Virtual tributary group (VTG) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

d\(^2\) = PCT line and trunk (virtual) unit number (PLTU). Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

e\(^2\) = PCT facility interface number (PCTFI). Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

f\(^2\) = The PCT tributary number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

g\(^2\) = Bearer Independant Call Control (BICC) origination point code (OPC) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

h\(^2\) = BICC destination point code (DPC) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

i\(^2\) = BICC raw call instance code (RCIC) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

NG = No good. Includes one of the following:
- BAD CHANNEL = A channel type was specified on an analog line or a trunk.
- BAD OPTION = Incompatible options were selected.
- BAD SA/ID = A bad sub-address or ID number was specified.
- CIRCUIT DESCRIPTOR = A bad universal tone decoder (UTD), universal tone generator (UTG), LUCHAN, or CKT input was specified.
- IDLE SA/ID = The traced sub-address or ID was idle.
- INTERNAL ERROR = Undetermined errors, possibly a software bug. Retry the request at a later time. This response may be accompanied by an assert.
- NOT PRIMARY DN/MLHG = The traced DN or MLHG is not primary on any terminal. Either input the primary DN/MLHG of the terminal you wish to trace or specify an SA number for this DN/MLHG.
- NOT PACKET = The PKT option was requested on a non-packet call.
- PORT DESCRIPTOR = A bad DN, LEN, LCEN, SLEN, MLHG, TKGMN, TEN, DEN, or PORT description was specified.
- REENTER DN WITH NPA = The office code (NXX), is in multiple numbering plan areas (NPA). Reenter the DN with an NPA.
- SA/ID NOT ALLOWED = A sub-address or ID number was specified on a line that does not use them.
- SM NOT OPERATIONAL = The SM where the trace should begin is not operational.
- TRACE NOT SUPPORTED ON SPECIFIED PORT = Traced port not supported.
- UNKNOWN INPUT = Input was not recognized.

OK = Okay. Includes the following:
- SEE STATUS PAGE = All sub-addresses or IDs for the DN or MLHG have been traced. The results are displayed on the TRACEABLE CALL STATUS MCC Display Page.
PF = Printout follows. Includes the following:
- EVENT n = The trace event (identified by the number 'n') has been accepted and is being processed. One or more TRC:UTIL output messages will follow.

RL = Retry later. Includes one of the following:
- MSG = Unable to send the message that starts the trace.
- TIMER = Unable to set a timer.
- TRACE IN PROGRESS = A trace is currently in progress.

5. REFERENCES

Input Message(s):
OP:TRC

Output Message(s):
TRC:UTIL-4WLN
TRC:UTIL-CONF
TRC:UTIL-FAILED
TRC:UTIL-HSM
TRC:UTIL-IDLE
TRC:UTIL-LINE
TRC:UTIL-LINK
TRC:UTIL-PID
TRC:UTIL-TRK

Input Appendix(es):
APP:RANGES

Other Manual(s):
235-105-110 System Maintenance Requirements and Tools
235-105-220 Corrective Maintenance
235-190-115 Local and Toll System Features

MCC Display Page(s):
131-132 (CALL TRACE MENU)
133-138 (HARDWARE CALL TRACE - 1 THROUGH 6)
139 (ISDN PACKET SWITCH CALL TRACE)
140 (HARDWARE CALL TRACE)
150 (TRACEABLE CALL STATUS)
151 (CONFERENCE CIRCUIT TRACE)
1. PURPOSE

Requests a utility call trace snapshot of the resources used by an in-progress call, and to update the hardware call trace Master Control Center (MCC) page with new trace data.

2. FORMAT


[3] TRC:UTIL:(TKGMN=b-c | DEN=d-a-b-c) [, PKT];

[4] TRC:UTIL:(PID=j-d-1 | TEN=d-v-w-x-y | NEN=d-e-g-b-i-c-j-k) [. . . RAF=d-s-t | SAS=d-s-t);


[9] TRC:UTIL:BST=p-q [, CH=(D | B1)];


3. EXPLANATION OF MESSAGE

**NOTE:** Refer to the Acronym section of the Input Messages manual for the full expansion of acronyms shown in the format.

**HARDHOLD** = Call trace request option for hardhold call. Default is non-hardhold utility call trace. Hardhold is an analog only feature.

**PKT** = Packet utility call trace request. Default is non-packet utility call trace.

**a** = DN of the line to be traced. If DN corresponds to a line time slot bridging (LTSB) port, call controller will be traced.

**b** = Trunk or MLHG group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

**c** = Trunk or MLHG member number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

**d** = Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

**e** = Integrated services line number (ISLU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

**f** = Grid number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

**g** = Switch board number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

**h** = Switch number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

**i** = Level number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

**j** = Process number of the PID.

**k** = Digital carrier line unit (DCLU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
1 = Remote terminal (RT) number or IDCU DS1 serving PUB43801 number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

m = RT line number or PUB43801 channel. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

n = ID number of call on DN or MLHG (0-31). When 'ALL' is specified, all calls for this DN or MLHG are listed in chronological order. This option can only be used on DNs or MLHGs on standard, non-electronic key telephone set (EKTS) DSLs.

o = IDCU number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

p = Line group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

q = Line card number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

r = Channel identifier. Valid value(s):
   B1
   B2
   D (default)

s = RAF or SAS unit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

t = Announcement port number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

u = OPT operator call loop number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual. Defaults to active loop. Enter a zero to trace the active loop. This option can only be used with an OPT.

v = Trunk unit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

w = Service group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

x = Channel board number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

y = Circuit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

z = DDS path identifier: 1 or 2, default to 0. For use with dual path DDS only.

a = Digital line and trunk unit (DLTU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

b = Digital facility interface (DFI) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
c^l = Channel number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

d^l = Port name (key of PORTLA). Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

e^l = Digital networking unit - synchronous optical network (SONET) (DNU-S) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

f^l = Circuit name (key of CDBCOM). Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

g^l = Data group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

h^l = Key of source time slot data block (TSDB) to be traced. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

i^l = Synchronous transport signal (STS) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

j^l = Virtual tributary member (VTM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

k^l = Digital signal level 0 (DS0) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

l^l = Uniqueness number of the PID.

m^l = Channel board number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

n^l = Channel circuit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

o^l = SA number of DN or MLHG. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual. When 'ALL' is specified, all busy SAs of this DN or MLHG are listed. This option can only be used with a DN or MLHG that uses sub-addresses.

p^l = Operator service center (OSC) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

q^l = Relative position number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

r^l = Packet switching unit (PSU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

s^l = PSU shelf number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

t^l = PSU channel group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

u^l = PSU channel group member number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
v¹  = Line board number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

w¹  = Line group controller number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

x¹  = Integrated service line unit 2 (ISLU2) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

y¹  = Line circuit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

z¹  = Remote digital terminal (RDT) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

a²  = Line number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

b²  = SONET terminal equipment (STE) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

c²  = Virtual tributary group (VTG) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

d²  = PCT line and trunk (virtual) unit (PLTU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

e²  = PCT facility interface (PCTFI) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

f²  = The PCT tributary number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

g²  = Bearer independent call control (BICC) origination point code (OPC) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

h²  = BICC destination point code (DPC) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

i²  = BICC raw call instance code (RCIC) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

j²  = Optical interface unit (OIU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

k²  = Protection group (PG) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

l²  = OC-3 STE number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

m²  = STS level 1 (STS-1). Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

n²  = Optical carrier - level 3 (OC3C) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
section of the Input Messages manual.

\[a^2\] = Synchronous transport signal - level 3 (STS3C) number. Refer to the APP: RANGES appendix in the Appendixes section of the Input Messages manual.

\[p^2\] = User datagram protocol (UDP) source port.

\[q^2\] = Session initiation protocol (SIP) global SM (GSM) index.

\[r^2\] = Processor group (PG).

\[s^2\] = SIP call processing SM number.

\[t^2\] = SIP map index (map IDX).

\[u^2\] = SIP process number.

4. SYSTEM RESPONSE

\[NG\] = No good. May also include:
- BAD CHANNEL = A channel type was specified on an analog line or a trunk.
- BAD OPTION = Incompatible options were selected.
- BAD SA/ID = A bad sub-address or ID number was specified.
- CIRCUIT DESCRIPTOR = A bad universal tone decoder (UTD), universal tone generator (UTG), LUCHAN, or CKT input was specified.
- IDLE SA/ID = The traced sub-address or ID was idle.
- INTERNAL ERROR = Undetermined errors, possibly a software bug. Retry the request at a later time. This response may be accompanied by an assert.
- NOT PRIMARY DN/MLHG = The traced DN or MLHG is not primary on any terminal. Either input the primary DN/MLHG of the terminal you wish to trace or specify an SA number for this DN/MLHG.
- NOT PACKET = The PKT option was requested on a non-packet call.
- PORT DESCRIPTOR = A bad DN, LEN, LCEN, SLEN, MLHG, TKGMN, TEN, DEN, or PORT description was specified.
- REENTER DN WITH NPA = The office code (NXX), is in multiple numbering plan areas (NPA). Reenter the DN with an NPA.
- SA/ID NOT ALLOWED = A sub-address or ID number was specified on a line that does not use them.
- SM NOT OPERATIONAL = The SM where the trace should begin is not operational.
- TRACE NOT SUPPORTED ON SPECIFIED PORT = Traced port not supported.
- UNKNOWN INPUT = Input was not recognized.

\[OK\] = Okay. May also include:
- SEE STATUS PAGE = All sub-addresses or IDs for the DN or MLHG have been traced. The results are displayed on the TRACEABLE CALL STATUS MCC Display Page.

\[PF\] = Printout follows. May also include:
- EVENT n = The trace event (identified by the number 'n') has been accepted and is being processed. One or more TRC:UTIL output messages will follow.

\[RL\] = Retry later. May also include:
- MSG = Unable to send the message that starts the trace.
- TIMER = Unable to set a timer.
- TRACE IN PROGRESS = A trace is currently in progress.

5. REFERENCES

Input Message(s):

OP : TRC

Output Message(s):

TRC : UTIL-4WLN
TRC : UTIL-CONF
TRC : UTIL-FAILED
TRC : UTIL-HSM
TRC : UTIL-IDLE
TRC : UTIL-LINE
TRC : UTIL-LINK
TRC : UTIL-PID
TRC : UTIL-TRK

Input Appendix(es):

APP : RANGES

Other Manual(s):

235-105-110 System Maintenance Requirements and Tools
235-105-220 Corrective Maintenance
235-190-115 Local and Toll System Features

MCC Display Page(s):

131-132 CALL TRACE MENU
133-138 HARDWARE CALL TRACE - 1 THROUGH 6
139 ISDN PACKET SWITCH CALL TRACE
140 HARDWARE CALL TRACE
150 TRACEABLE CALL STATUS
151 CONFERENCE CIRCUIT TRACE
**TRC:UTIL-D**

**Software Release:** 5E17(1) only  
**Command Group:** TRACE  
**Application:** 5  
**Type:** Input

1. **PURPOSE**

Requests a utility call trace snapshot of the resources used by an in-progress call, and to update the hardware call trace Master Control Center (MCC) page with new trace data.

2. **FORMAT**

[1] TRC:UTIL:(DN=a|MLHG=b-c)\{[,CH=r] [,PKT] [,SA=(o^1|ALL)]\} . . .\{[,CID=(n|ALL)] [,HARDHOLD] [,DDS=z]\};

[2] TRC:UTIL:(LEN=d-e-f-g-h-i | SLEN=d-k-1-m | CKT=d-f^1 | TS=d-h^1) . . .LUCHAN=d-e-w-m^1-n^1 [,HARDHOLD];

[3] TRC:UTIL:(TKGMN=b-c | DEN=d-a^1-b^1-c^1) [,PKT];

[4] TRC:UTIL:(PID=j-d-l^1 | TEN=d-v-w-x-y | NEN=d-e^1-g^1-b^2-i^1-c^2-j^1-k^1) . . .RAF=d-s-t | SAS=d-s-t);


[9] TRC:UTIL:BST=p^1-q^1[,CH=(D|B1)];

[10] TRC:UTIL:OPT=p^1-q^1[,LOOP=u] [,CH=(D|B1)];


[13] TRC:UTIL:PLTEN=d-d^2-e^2-f^2-c^1;
3. EXPLANATION OF MESSAGE

**NOTE:** Refer to the Acronym section of the Input Messages manual for the full expansion of acronyms shown in the format.

**HARDHOLD** = Call trace request option for hardhold call. Default is non-hardhold utility call trace. Hardhold is an analog only feature.

**PKT** = Packet utility call trace request. Default is non-packet utility call trace.

a = DN of the line to be traced. If DN corresponds to a line time slot bridging (LTSB) port, call controller will be traced.

b = Trunk or MLHG group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

c = Trunk or MLHG member number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

d = Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

e = Integrated services line number (ISLU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

f = Grid number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

g = Switch board number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

h = Switch number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

i = Level number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

j = Process number of the PID.

k = Digital carrier line unit (DCLU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

l = Remote terminal (RT) number or IDCU DS1 serving PUB43801 number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
m = RT line number or PUB43801 channel. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

n = ID number of call on DN or MLHG (0-31). When 'ALL' is specified, all calls for this DN or MLHG are listed in chronological order. This option can only be used on DNs or MLHGs on standard, non-electronic key telephone set (EKTS) DSLs.

o = IDCU number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

p = Line group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

q = Line card number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

r = Channel identifier. Valid value(s):

- B1
- B2
- D (default)

s = RAF or SAS unit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

t = Announcement port number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

u = OPT operator call loop number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual. Defaults to active loop. Enter a zero to trace the active loop. This option can only be used with an OPT.

v = Trunk unit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

w = Service group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

x = Channel board number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

y = Circuit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

z = DDS path identifier: 1 or 2, default to 0. For use with dual path DDS only.

a¹ = Digital line and trunk unit (DLTU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

b¹ = Digital facility interface (DFI) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

c¹ = Channel number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
d\(^1\) = Port name (key of PORTLA). Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

e\(^1\) = Digital networking unit - synchronous optical network (SONET) (DNU-S) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

f\(^1\) = Circuit name (key of CDBCOM). Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

g\(^1\) = Data group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

h\(^1\) = Key of source time slot data block (TSDB) to be traced. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

i\(^1\) = Synchronous transport signal (STS) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

j\(^1\) = Virtual Tributary Member (VTM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

k\(^1\) = Digital signal level 0 (DS0) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

l\(^1\) = Uniqueness number of the PID.

m\(^1\) = Channel board number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

n\(^1\) = Channel circuit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

o\(^1\) = SA number of DN or MLHG. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual. When ‘ALL’ is specified, all busy SAs of this DN or MLHG are listed. This option can only be used with a DN or MLHG that uses sub-addresses.

p\(^1\) = Operator service center (OSC) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

q\(^1\) = Relative position number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

r\(^1\) = Packet switching unit (PSU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

s\(^1\) = PSU shelf number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

t\(^1\) = PSU channel group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

u\(^1\) = PSU channel group member number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

v\(^1\) = Line board number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
\( w^1 \) = Line group controller number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

\( x^1 \) = Integrated service line unit 2 (ISLU2) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

\( y^1 \) = Line circuit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

\( z^1 \) = Remote digital terminal (RDT) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

\( a^2 \) = Line number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

\( b^2 \) = SONET terminal equipment (STE) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

\( c^2 \) = Virtual tributary group (VTG) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

\( d^2 \) = PCT line and trunk (virtual) unit (PLTU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

\( e^2 \) = PCT facility interface (PCTFI) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

\( f^2 \) = The PCT tributary number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

\( g^2 \) = Bearer independent call control (BICC) origination point code (OPC) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

\( h^2 \) = BICC destination point code (DPC) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

\( i^2 \) = BICC raw call instance code (RCIC) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

\( j^2 \) = Optical interface unit (OIU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

\( k^2 \) = Protection group (PG) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

\( l^2 \) = OC-3 STE number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

\( m^2 \) = STS level 1 (STS-1). Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

\( n^2 \) = Optical carrier - level 3 (OC3C) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

\( o^2 \) = Synchronous transport signal - level 3 (STS3C) number. Refer to the APP:RANGES appendix in
the Appendixes section of the Input Messages manual.

\[ p^2 \]

- User datagram protocol (UDP) source port.

### 4. SYSTEM RESPONSE

**NG**

- **No good.** May also include:
  - **BAD CHANNEL** = A channel type was specified on an analog line or a trunk.
  - **BAD OPTION** = Incompatible options were selected.
  - **BAD SA/ID** = A bad sub-address or ID number was specified.
  - **CIRCUIT DESCRIPTOR** = A bad universal tone decoder (UTD), universal tone generator (UTG),
    LUCHAN, or CKT input was specified.
  - **IDLE SA/ID** = The traced sub-address or ID was idle.
  - **INTERNAL ERROR** = Undetermined errors, possibly a software bug. Retry the request at a later
    time. This response may be accompanied by an assert.
  - **NOT PRIMARY DN/MLHG** = The traced DN or MLHG is not primary on any terminal. Either input
    the primary DN/MLHG of the terminal you wish to trace or specify an SA number for
    this DN/MLHG.
  - **NOT PACKET** = The PKT option was requested on a non-packet call.
  - **PORT DESCRIPTOR** = A bad DN, LEN, LCEN, SLEN, MLHG, TKGMN, TEN, DEN, or PORT
    description was specified.
  - **REENTER DN WITH NPA** = The office code (NXX), is in multiple numbering plan areas (NPA).
    Reenter the DN with an NPA.
  - **SA/ID NOT ALLOWED** = A sub-address or ID number was specified on a line that does not use
    them.
  - **SM NOT OPERATIONAL** = The SM where the trace should begin is not operational.
  - **TRACE NOT SUPPORTED ON SPECIFIED PORT** = Traced port not supported.
  - **UNKNOWN INPUT** = Input was not recognized.

**OK**

- **Okay.** May also include:
  - **SEE STATUS PAGE** = All sub-addresses or IDs for the DN or MLHG have been traced. The
    results are displayed on the TRACEABLE CALL STATUS MCC Display Page.

**PF**

- **Printout follows.** May also include:
  - **EVENT n** = The trace event (identified by the number ’n’) has been accepted and is being
    processed. One or more TRC:UTIL output messages will follow.

**RL**

- **Retry later.** May also include:
  - **MSG** = Unable to send the message that starts the trace.
  - **TIMER** = Unable to set a timer.
  - **TRACE IN PROGRESS** = A trace is currently in progress.

### 5. REFERENCES

Input Message(s):

\[ \text{OP:TRC} \]
Output Message(s):

TRC:UTIL-4WLN
TRC:UTIL-CONF
TRC:UTIL-FAILED
TRC:UTIL-HSM
TRC:UTIL-IDLE
TRC:UTIL-LINE
TRC:UTIL-LINK
TRC:UTIL-PID
TRC:UTIL-TRK

Input Appendix(es):

APP:RANGES

Other Manual(s):
235-105-110 System Maintenance Requirements and Tools
235-105-220 Corrective Maintenance
235-190-115 Local and Toll System Features

MCC Display Page(s):
131-132 CALL TRACE MENU
133-138 HARDWARE CALL TRACE - 1 THROUGH 6
139 ISDN PACKET SWITCH CALL TRACE
140 HARDWARE CALL TRACE
150 TRACEABLE CALL STATUS
151 CONFERENCE CIRCUIT TRACE
1. PURPOSE

Requests a utility call trace snapshot of the resources used by an in-progress call, and to update the hardware call trace Master Control Center (MCC) page with new trace data.

2. FORMAT

[1] TRC:UTIL:(DN=a|MLHG=b-c)[[,CH=r][,PKT] |[,SA={o1|ALL}]][,CID={n|ALL}] |[,HARDHOLD] |[,DDS=z]);

[2] TRC:UTIL:(LEN=d-e-f-g-h-i|SLEN=d-k-l-m|CKT=d-f1|TS=d-h1| . . .|LUCHAN=d-e-w-m1-n1|,[HARDHOLD]);

[3] TRC:UTIL:(TKGMN=b-c|DEN=d-a1-b1-c1)[,PKT];

[4] TRC:UTIL:(PID=j-d-l1|TEN=d-v-w-x-y|NEN=d-e1-g1-b2-i2-c2-j1-k1| . . .|RAF=d-s-t|SAS=d-s-t);


[9] TRC:UTIL:BST=p1-q1[ [,CH=(D|B1)];

[10] TRC:UTIL:OPT=p1-q1[ [,LOOP=u][,CH=(D|B1)];


[13] TRC:UTIL:PLTEN=d-d2-e2-f2-c1;
3. EXPLANATION OF MESSAGE

**NOTE:** Refer to the Acronym section of the Input Messages manual for the full expansion of acronyms shown in the format.

<table>
<thead>
<tr>
<th>Acronym</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>HARDHOLD</td>
<td>Call trace request option for hardhold call. Default is non-hardhold utility call trace. Hardhold is an analog only feature.</td>
</tr>
<tr>
<td>PKT</td>
<td>Packet utility call trace request. Default is non-packet utility call trace.</td>
</tr>
<tr>
<td>a</td>
<td>DN of the line to be traced. If DN corresponds to a line time slot bridging (LTSB) port, call controller will be traced.</td>
</tr>
<tr>
<td>b</td>
<td>Trunk or MLHG group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.</td>
</tr>
<tr>
<td>c</td>
<td>Trunk or MLHG member number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.</td>
</tr>
<tr>
<td>d</td>
<td>Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.</td>
</tr>
<tr>
<td>e</td>
<td>Integrated services line number (ISLU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.</td>
</tr>
<tr>
<td>f</td>
<td>Grid number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.</td>
</tr>
<tr>
<td>g</td>
<td>Switch board number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.</td>
</tr>
<tr>
<td>h</td>
<td>Switch number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.</td>
</tr>
<tr>
<td>i</td>
<td>Level number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.</td>
</tr>
<tr>
<td>j</td>
<td>Process number of the PID.</td>
</tr>
<tr>
<td>k</td>
<td>Digital carrier line unit (DCLU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.</td>
</tr>
</tbody>
</table>
1 = Remote terminal (RT) number or IDCU DS1 serving PUB43801 number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

m = RT line number or PUB43801 channel. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

n = ID number of call on DN or MLHG (0-31). When ‘ALL’ is specified, all calls for this DN or MLHG are listed in chronological order. This option can only be used on DNs or MLHGs on standard, non-electronic key telephone set (EKTS) DSLs.

o = IDCU number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

p = Line group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

q = Line card number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

r = Channel identifier. Valid value(s):
   B1
   B2
   D (default)

s = RAF or SAS unit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

t = Announcement port number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

u = OPT operator call loop number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual. Defaults to active loop. Enter a zero to trace the active loop. This option can only be used with an OPT.

v = Trunk unit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

w = Service group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

x = Channel board number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

y = Circuit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

z = DDS path identifier: 1 or 2, default to 0. For use with dual path DDS only.

a¹ = Digital line and trunk unit (DLTU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

b¹ = Digital facility interface (DFI) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
c
  = Channel number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

d
  = Port name (key of PORTLA). Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

e
  = Digital networking unit - synchronous optical network (SONET) (DNU-S) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

f
  = Circuit name (key of CDBCOM). Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

g
  = Data group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

h
  = Key of source time slot data block (TSDB) to be traced. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

i
  = Synchronous transport signal (STS) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

j
  = Virtual tributary member (VTM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

k
  = Digital signal level 0 (DS0) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

l
  = Uniqueness number of the PID.

m
  = Channel board number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

n
  = Channel circuit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

o
  = SA number of DN or MLHG. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual. When 'ALL' is specified, all busy SAs of this DN or MLHG are listed. This option can only be used with a DN or MLHG that uses sub-addresses.

p
  = Operator service center (OSC) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

q
  = Relative position number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

r
  = Packet switching unit (PSU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

s
  = PSU shelf number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

t
  = PSU channel group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

u
  = PSU channel group member number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
Line board number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

Line group controller number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

Integrated service line unit 2 (ISLU2) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

Line circuit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

Remote digital terminal (RDT) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

Line number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

SONET terminal equipment (STE) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

Virtual tributary group (VTG) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

PCT line and trunk (virtual) unit (PLTU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

PCT facility interface (PCTFI) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

The PCT tributary number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

Bearer independent call control (BICC) origination point code (OPC) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

BICC destination point code (DPC) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

BICC raw call instance code (RCIC) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

Optical interface unit (OIU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

Protection group (PG) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

OC-3 STE number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

STS level 1 (STS-1). Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

Optical carrier - level 3 (OC3C) number. Refer to the APP:RANGES appendix in the Appendixes
section of the Input Messages manual.

\( a^2 \) = Synchronous transport signal - level 3 (STS3C) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

\( p^2 \) = User datagram protocol (UDP) source port.

\( q^2 \) = Session initiation protocol (SIP) global SM (GSM) index.

\( r^2 \) = Processor group (PG).

\( s^2 \) = SIP call processing SM number.

\( t^2 \) = SIP map index (map IDX).

\( u^2 \) = SIP process number.

4. SYSTEM RESPONSE

NG = No good. May also include:
- BAD CHANNEL = A channel type was specified on an analog line or a trunk.
- BAD OPTION = Incompatible options were selected.
- BAD SA/ID = A bad sub-address or ID number was specified.
- CIRCUIT DESCRIPTOR = A bad universal tone decoder (UTD), universal tone generator (UTG), LUCHAN, or CKT input was specified.
- IDLE SA/ID = The traced sub-address or ID was idle.
- INTERNAL ERROR = Undetermined errors, possibly a software bug. Retry the request at a later time. This response may be accompanied by an assert.
- NOT PRIMARY DN/MLHG = The traced DN or MLHG is not primary on any terminal. Either input the primary DN/MLHG of the terminal you wish to trace or specify an SA number for this DN/MLHG.
- NOT PACKET = The PKT option was requested on a non-packet call.
- PORT DESCRIPTOR = A bad DN, LEN, LCEN, SLEN, MLHG, TKGMN, TEN, DEN, or PORT description was specified.
- REENTER DN WITH NPA = The office code (NXX), is in multiple numbering plan areas (NPA). Reenter the DN with an NPA.
- SA/ID NOT ALLOWED = A sub-address or ID number was specified on a line that does not use them.
- SM NOT OPERATIONAL = The SM where the trace should begin is not operational.
- TRACE NOT SUPPORTED ON SPECIFIED PORT = Traced port not supported.
- UNKNOWN INPUT = Input was not recognized.

OK = Okay. May also include:
- SEE STATUS PAGE = All sub-addresses or IDs for the DN or MLHG have been traced. The results are displayed on the TRACEABLE CALL STATUS MCC Display Page.

PF = Printout follows. May also include:
- EVENT n = The trace event (identified by the number ‘n’) has been accepted and is being processed. One or more TRC:UTIL output messages will follow.

RL = Retry later. May also include:
- **MSG** = Unable to send the message that starts the trace.
- **TIMER** = Unable to set a timer.
- **TRACE IN PROGRESS** = A trace is currently in progress.

5. REFERENCES

Input Message(s):

```
OP:TRC
```

Output Message(s):

```
TRC:UTIL-4WLN
TRC:UTIL-CONF
TRC:UTIL-FAILED
TRC:UTIL-HSM
TRC:UTIL-IDLE
TRC:UTIL-LINE
TRC:UTIL-LINK
TRC:UTIL-PID
TRC:UTIL-TRK
```

Input Appendix(es):

```
APP:RANGES
```

Other Manual(s):

235-105-110  *System Maintenance Requirements and Tools*
235-105-220  *Corrective Maintenance*
235-190-115  *Local and Toll System Features*

MCC Display Page(s):

```
131-132  CALL TRACE MENU)
133-138  HARDWARE CALL TRACE - 1 THROUGH 6
139      ISDN PACKET SWITCH CALL TRACE
140      HARDWARE CALL TRACE
150      TRACEABLE CALL STATUS
151      CONFERENCE CIRCUIT TRACE
```
79. TST
TST:ACPNUM
Software Release: 5E14 and later
Command Group: CCS
Application: 5
Type: Input

1. PURPOSE
Requests testing of the integrity of the common channel signaling (CCS) network and data consistency between the network control point (NCP) and the 5ESS® switch. In this case the switch is functioning as an action control point (ACP) for the software defined network (SDN) and leased network (LN) using the International Telecommunication Union - Telecommunication, Standardization Sector (ITU-TS) (formerly CCITT) standard transaction capability application part (TCAP) protocol.

2. FORMAT
TST:ACPNUM=a,APP=b,ANI=c[,DATARATE=d][,SID=e][,SGD=f];

3. EXPLANATION OF MESSAGE
a = LN number to be tested. This number must be a string of seven or ten digits, and must fit the template NXXXXXX or NPANXXXXXX.

b = Feature application type. Valid value(s):
  LN = Leased network.
  SDN = Software defined network.

c = Ten-digit automatic number identification (ANI) of the calling party, which must have the format NPANXXXXXX.

d = Data rate used for integrated services digital network (ISDN) primary rate interface (ISDN-PRI) data call. Valid value(s):
  VOICE = Voice (default).
  64KC = 64 KPS clear.
  64KR = 64 KPS restricted.
  56KC = 56 KPS.

e = Station identification (SID) for an ISDN-PRI call. This number must have the format NPANXXXXXX.

f = Station group designator (SGD), (0-8).

4. SYSTEM RESPONSE
NG = No good. May also include:
  - CNI NOT OPERATIONAL = The test message cannot be sent. The common network interface (CNI) is not operational or is overloaded. Check CNI status and wait at least 10 minutes before requesting another test.
  - FAILED TO SEND TCAP MESSAGE = Unable to format query and send message out to the network.
  - INVALID INPUT FIELD = There is either an invalid character for variables 'a' or 'b' or an
incorrect number of digits. You must input digits at variables 'a' and 'b'.

**PF** = Printout follows. The request has been received. Followed by a TST:ACPNUM output message.

**RL** = Retry later. May also include:
- **TEST IN PROGRESS** = A common channel signaling (CCS) test is currently in progress.

### 5. REFERENCES

Output Message(s):

TST:ACPNUM

Other Manual(s):
235-070-100  *Administration and Engineering Guidelines*
TST:AILS-OLS

Software Release: 5E14 and later
Command Group: CCS
Application: 5
Type: Input

1. PURPOSE

Requests that an automated inward line screening (AILS) originating line screening (OLS) common channel signaling system 7 (CCS7) transaction capabilities application part (TCAP) test query be sent from a call serving Operator Service Position System (OSPS) to a normal serving site OSPS to gather AILS OLS data.

2. FORMAT

TST:AILS OLS,CLG=a,SV=b,DPC=c;

3. EXPLANATION OF MESSAGE

a = Calling number. This is a 10-digit North American number plan (NANP) number.

b = AILS software version number. The AILS software version number is used to indicate the current software level for the AILS feature. The AILS software version number is a number from 1 to 99.

c = Destination point code. The destination point code is the point code of the normal serving site OSPS that will receive this AILS OLS test query. The destination point code is a 9-digit number.

4. SYSTEM RESPONSE

NG = No good. May also include:
- CNI NOT AVAILABLE = The test query cannot be sent to the CAS/NCP database because the common network interface (CNI) or CCS7 links are not available.
- INVALID CALLING NUMBER = The calling number must be a 10-digit NANP number.

PF = Printout follows. The request has been received. Output message TST:AILS-OLS will follow.

RL = Retry later. May also include:
- INTERNAL ERROR = There was a problem reading the RLDS_APP relation. Refer to RC/V View 8.17 for the subsystem number.
- TEST IN PROGRESS = Another common channel signaling (CCS) test is in progress.

5. REFERENCES

Input Message(s):

EXC:DSIT
TST:BNS
TST:CAS
TST:CCRD
TST:ICCV
TST:INWATS
TST:NCD
TST: RATE

Output Message(s):

EXC: DSTT
TST: AILS-0LS
TST: BNS
TST: CAS
TST: CAS7
TST: CCRD
TST: ICCV
TST: INWATS
TST: NCD
TST: RATE

RC/V View(s):

8.17 (DIRECT SIGNALING APPLICATIONS)
TST:AILS-TCS

Software Release: 5E14 and later
Command Group: CCS
Application: 5
Type: Input

1. PURPOSE

Requests that an automated inward line screening (AILS) terminating code screening (TCS) common channel signaling system 7 (CCS7) transaction capabilities application part (TCAP) test query be sent from a call serving Operator Service Position System (OSPS) to a normal serving site OSPS to gather AILS TCS data.

2. FORMAT

TST:AILS TCS,CLG=a[,CLD|,ICLD]=b[,SSCNUM=c],SV=d,DPC=e;

3. EXPLANATION OF MESSAGE

a = Calling number. This is a 10-digit North American number plan (NANP) number.

b = Called number.

Prefix | Explanation
--- | ---
CLD= | This is a 10-digit directory number for a NANP called number.
ICLD= | This is a 1- to 3-digit international country code.

c = Special services code (SSC) number. This is a 7-digit number (SSC-WXYZ) used for 800 access calls. If this entry is omitted, a default value of 0 (no SSC-WXYZ number) will be used.

d = AILS software version number. The AILS software version number is used to indicate the current software level for the AILS feature. The AILS software version number is a number from 1 to 99.

e = Destination point code. The destination point code is the point code of the normal serving site OSPS that will receive this AILS TCS test query. The destination point code is a 9-digit number.

4. SYSTEM RESPONSE

NG = No good. Includes one of the following:
- CNI NOT AVAILABLE = The test query cannot be sent to the CAS/NCP database because the common network interface (CNI) or CCS7 links are not available.
- INVALID CALLING NUMBER = The calling number must be a 10-digit NANP number.
- INVALID CALLED NUMBER = The called number must be a 10-digit NANP number or a 1 to 3 digit international country code.
- INVALID SSC-WXYZ NUMBER = The SSC number must be a 7-digit number.

PF = Printout follows. The request has been received. The TST:AILS-TCS output message will follow.

RL = Retry later. Includes one of the following:
- INTERNAL ERROR = There was a problem reading the RLDS_APP relation. Refer to RC/V View 8.17 for the subsystem number.
- TEST IN PROGRESS = Another common channel signaling (CCS) test is in progress.

5. REFERENCES
Input Message(s):

EXC:DSTT
TST:AILS-OLS
TST:BNS
TST:CAS
TST:CCRD
TST:ICCV
TST:INWATS
TST:NCD
TST:RATE

Output Message(s):

EXC:DSTT
TST:AILS-OLS
TST:AILS-TCS
TST:BNS
TST:CAS
TST:CAS7
TST:CCRD
TST:ICCV
TST:INWATS
TST:NCD
TST:RATE

RC/V View(s):

8.17 (DIRECT SIGNALING APPLICATIONS)
TST:ALM

Software Release: 5E14 and later
Command Group: ALARM
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Requests that the audible and visual alarm reporting mechanism be tested. This request does not test that a specific fault will actually cause an alarm. This will only verify that the audible and visual alarm devices are in working order.

WARNING: Before starting this test, it is recommended that the user make sure all existing active alarms have been retired. Also note that when retiring the alarm generated by this input message, any other alarms that may have been activated during this testing will also be retired. Check the ROP and daylog for any real alarms that may have occurred during the test.

2. FORMAT

TST:ALM, LVL={CR|MJ|MN};

3. EXPLANATION OF MESSAGE

CR = Critical alarm level.
MJ = Major alarm level.
MN = Minor alarm level.

4. SYSTEM RESPONSE

PF = Followed by the TST:ALM output message.

5. REFERENCES

Input Message(s):

CLR:ALARMS
CLR:LAMPS

Output Message(s):

TST:ALM
TST:ASP-A

Software Release: 5E14 only
Command Group: CCS
Application: 5
Type: Input

1. PURPOSE

Requests that an R0 advanced services platform (ASP) test query verifying integrity be sent to the external service control point (SCP) database. This will be sent using the service switching point (SSP) of the network and the contents of the routing information returned from the SCP.

2. FORMAT

TST:ASP[,TESTDN=a],ANI=b,SKEY=c,LATA=d[,CID=e][,CARSEL=f][,NON=g][,CICEI=h][,OPC=i];

3. EXPLANATION OF MESSAGE

a = The dialed ASP number. If called party (DIALED_NUM) is the service key then this field must be 10 digits, otherwise it can be any number of digits.

b = Automatic number identification (ANI) of the calling party. If calling ANI is the service key then this field must be 10 digits, otherwise it can be any number of digits.

c = The service key field. Valid value(s):
   ANI = Automatic number identification.
   DIALED_NUM = Dialed number or testdn.

d = Three-digit absolute local access and transport area (LATA) number (100-999).

e = A 3-digit or 4-digit feature group D (FGD) carrier identification which is either the "XXX" or "XXXX" digits contained in either the "10XXX" or "101XXXX" digits in sequence dialed by the caller or carrier code assigned to the caller as presubscribed inter-exchange carrier (PIC) information.

f = Carrier selection. Indicates whether digits (carrier identification) information dialed, is equal to the caller's presubscribed carrier information, or indicates the lack of this information. Valid value(s):
   CALLER = No presubscribed carrier input by caller.
   PIC = Presubscribed carrier not input by caller.
   PICIND = Presubscribed carrier origination unknown.
   PICMTCH = Presubscribed carrier input by caller.
   UNKN = Unknown.

g = Nature of number. Specifies the format of the address digits for subscribed triggers using the ASP dialing plan. Valid value(s):
   IECOPR = Inter exchange carrier operator.
   INTER = International.
   INTOPR = International operator.
   LECOPR = Local exchange carrier operator.
   NAP = Not applicable.
   NAT = National.
   NETWK = Network specific.
h = CIC expansion indicator (Y or N). Indicates whether the CIC expansion parameter should be sent in the test query. If not specified the value is taken from the Glcapic office parameter.

i = Origination point code consisting of a nine digit character string. Refer to the APP:POINT-CODE appendix in the Appendixes section of the Input Messages manual. Note: this option is mandatory in a multi-platform office.

4. SYSTEM RESPONSE

NG
- No good. Valid value(s):
  - CCS MESSAGE TRANSPORT PATH UNAVAILABLE = SS7 PSU signaling links are not available.
  - CNI NOT AVAILABLE = The test message can not be sent because the common network interface (CNI) is not operational or is overloaded. Check CNI status and wait at least 10 seconds before requesting another test.
  - FAILED TO SEND TCAP MESSAGE = Unable to format query and send message out to network
  - GSM/PROTOCOL MISMATCH = The GSM and the protocol do not match, missing or incorrect data.
  - INVALID INPUT IN FIELD = There is either an invalid character in the numeric variables 'a', 'b', 'c', or 'd' or an incorrect number of digits.
  - MISSING INPUT FOR FIELD = There is a missing field for variables 'e', 'f' or 'g'.
  - MUST ENTER OPC = The origination point code must be specified as part of the input message line because either there are multiple global switch modules (GSM) in the office or the office is equipped with both common network interface (CNI) and packet switch unit (PSU) platforms.
  - NO GLOBAL SM IN OFFICE = The office is not equipped with any GSMs.
  - NO SS7 IN OFFICE = The office is not equipped with signaling system 7 (SS7) platform.
  - OPC IS INVALID = The entered digits are either invalid, the number of digits entered is incorrect, or the point code was not provisioned in the office.
  - OPC IS NOT AVAILABLE = Could not get the point code. There was missing or incorrect data.

NO
- The feature is not allowed. Valid value(s):
  - CARRIER ID FIELD NOT ALLOWED = Carrier ID enhancement not authorized in this office. Do not include this field.
  - CARRIER SELECTION FIELD NOT ALLOWED = Carrier selection enhancement not authorized in this office. Do not include this field.
  - FEATURE NOT AVAILABLE = ASP must be purchased before attempting to send a test query.
  - NATURE OF NUMBER FIELD NOT ALLOWED = Nature of number enhancement not authorized in the office. Do not include this field.

PF
= Printout follows. The request has been received. Followed by a TST:ASP output message.

RL
= Retry later. Valid value(s):
  - OVERLOAD CONDITION IN CCS MESSAGE TRANSPORT PATH = SS7 PSU signaling links are congested.
  - TEST IN PROGRESS = A test query is currently in progress.

5. REFERENCES
Input Message(s):

TST:NS800

Output Message(s):

TST:ASP
TST:NS800

Other Manual(s):
235-200-115  CNI Common Channel Signaling
235-200-116  Signaling Gateway Common Channel Signaling

MCC Display Page(s):

118 (CNI STATUS)
TST:ASP-B

Software Release: 5E15 and later
Command Group: CCS
Application: 5
Type: Input

1. PURPOSE

Requests that an R0 advanced services platform (ASP) test query verifying integrity be sent to the external service control point (SCP) database. This will be sent using the service switching point (SSP) of the network and the contents of the routing information returned from the SCP.

2. FORMAT

TST:ASP[,TESTDN=a],ANI=b,SKEY=c,LATA=d[,CID=e][,CARSEL=f][,NON=g][,CICEI=h][,OPC=i][,PLATFORM=j];

3. EXPLANATION OF MESSAGE

a = The dialed ASP number. If called party (DIALED_NUM) is the service key then this field must be 10 digits, otherwise it can be any number of digits.

b = Automatic number identification (ANI) of the calling party. If calling ANI is the service key then this field must be 10 digits, otherwise it can be any number of digits.

c = The service key field. Valid value(s):
   ANI = Automatic number identification.
   DIALED_NUM = Dialed number or testdn.

d = Three-digit absolute local access and transport area (LATA) number (100-999).

e = A 3-digit or 4-digit feature group D (FGD) carrier identification which is either the "XXX" or "XXXX" digits contained in either the "10XXX" or "101XXXX" digits in sequence dialed by the caller or carrier code assigned to the caller as presubscribed inter-exchange carrier (PIC) information.

f = Carrier selection. Indicates whether digits (carrier identification) information dialed, is equal to the caller's presubscribed carrier information, or indicates the lack of this information. Valid value(s):
   CALLER = No presubscribed carrier input by caller.
   PIC = Presubscribed carrier not input by caller.
   PICIND = Presubscribed carrier origination unknown.
   PICMTCH = Presubscribed carrier input by caller.
   UNKN = Unknown.

g = Nature of number. Specifies the format of the address digits for subscribed triggers using the ASP dialing plan. Valid value(s):
   IECOPR = Inter exchange carrier operator.
   INTER = International.
   INTOPR = International operator.
   LECOPR = Local exchange carrier operator.
   NAP = Not applicable.
   NAT = National.
   NETWK = Network specific.
h = CIC expansion indicator (Y or N). Indicates whether the CIC expansion parameter should be sent in the test query. If not specified the value is taken from the Gltcapic office parameter.

i = Origination point code consisting of a nine digit character string. Refer to the APP:POINT-CODE appendix in the Appendixes section of the Input Messages manual. Note: this option is mandatory in a multi-platform office.

j = Signaling Platform. Valid value(s):
   0 = Common Network Interface (CNI) Platform
   1 - 192 = Global Switching Module (GSM) Number

Note: this option is mandatory in a multi-platform office.

4. SYSTEM RESPONSE

NG = No good. Valid value(s):
   - CCS MESSAGE TRANSPORT PATH UNAVAILABLE = SS7 PSU signaling links are not available.
   - CNI NOT AVAILABLE = The test message can not be sent because the common network interface (CNI) is not operational or is overloaded. Check CNI status and wait at least 10 seconds before requesting another test.
   - FAILED TO SEND TCAP MESSAGE = Unable to format query and send message out to network
   - GSM/PROTOCOL MISMATCH = The GSM and the protocol do not match, missing or incorrect data.
   - INVALID INPUT IN FIELD = There is either an invalid character in the numeric variables 'a', 'b', 'c', or 'd' or an incorrect number of digits.
   - MISSING INPUT FOR FIELD = There is a missing field for variables 'a', 'f' or 'g'.
   - MUST ENTER OPC = The origination point code must be specified as part of the input message line because either there are multiple global switch modules (GSM) in the office or the office is equipped with both common network interface (CNI) and packet switch unit (PSU) platforms.
   - MUST ENTER PLATFORM = The signaling platform must be specified as part of the input message line because either there are multiple global switch modules (GSM) in the office or the office is equipped with both common network interface (CNI) and packet switch unit (PSU) platforms.
   - NO GLOBAL SM IN OFFICE = The office is not equipped with any GSMs.
   - NO SS7 IN OFFICE = The office is not equipped with signaling system 7 (SS7) platform.
   - OPC IS INVALID = The entered digits are either invalid, the number of digits entered is incorrect, or the point code was not provisioned in the office.
   - OPC IS NOT AVAILABLE = Could not get the point code. There was missing or incorrect data.
   - OPC NOT ON PLATFORM = Could not find the point code on the platform entered.
   - PLATFORM IS INVALID = The entered signaling platform is either invalid or the platform entered is not provisioned in the office.

NO = The feature is not allowed. Valid value(s):
   - CARRIER ID FIELD NOT ALLOWED = Carrier ID enhancement not authorized in this office. Do not include this field.
   - CARRIER SELECTION FIELD NOT ALLOWED = Carrier selection enhancement not authorized in this office. Do not include this field.
FEATURE NOT AVAILABLE = ASP must be purchased before attempting to send a test query.
NATURE OF NUMBER FIELD NOT ALLOWED = Nature of number enhancement not authorized in the office. Do not include this field.

PF = Printout follows. The request has been received. Followed by a TST:ASP output message.

RL = Retry later. Valid value(s):
- OVERLOAD CONDITION IN CCS MESSAGE TRANSPORT PATH = SS7 PSU signaling links are congested.
- TEST IN PROGRESS = A test query is currently in progress.

5. REFERENCES

Input Message(s):
TST:NS800

Output Message(s):
TST:ASP
TST:NS800

Other Manual(s):
235-200-115 CNI Common Channel Signaling
235-200-116 Signaling Gateway Common Channel Signaling

MCC Display Page(s):
118 (CNI STATUS)
TST:ASPTQ-A

Software Release: 5E14 only
Command Group: CCS
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Requests sending an advanced services platform (ASP) 0.1 test message to the service control point (SCP). If a response to format one is received from the SCP, the output is divided into two parts for display purposes [routing and automatic message accounting (AMA) billing]. The portion (routing or billing) of the response to display may be specified.

Format two is only for number portability. The only message type valid for this format is NPINFOANAL (information analyzed for number portability). It is used to verify whether a called party (CLDPTY) directory number (DN) is ported and the response to format two will display its location routing number if ported or, if not ported, will say it’s not ported and echo back the specified CLDPTY.

WARNING: Using format two of this input message will effectively do a clear of any information analyzed (INFOANAL) parameter settings previously set using the SET:ASPTQ input message except for TRANTYPE, OPC, and TIMER. Using format two of this message will set number portability default values for the bearer capability and trigger type parameters and will set the called party ID, user ID directory number, and global title address parameters based on the called party value (CLDPTY=c) on the command line. If TRANTYPE is included on the command line, the command line value for TRANTYPE will over write any previous setting of TRANTYPE using the SET:ASPTQ input message. Use OP:ASPTQ,MSGTYPE=INFOANAL before using this command to see what currently set values may be lost by executing this command. Use OP:ASPTQ,MSGTYPE=INFOANAL after using this command to see what parameters were used in the query.

2. FORMAT

[1] TST:ASPTQ,MSGTYPE=a[,MSGPART=b];

[2] TST:ASPTQ,MSGTYPE=NPINFOANAL,CLDPTY=c[,TRANTYPE=d][,OPC=e];

3. EXPLANATION OF MESSAGE

a = The type of message to send to the SCP. Valid value(s):

CLOSE = Close. The CLOSE message type is used to close the transaction with the SCP, and is typically used after sending the final notification message or in place of a request message to indicate caller abandon or an abnormal situation.

INFOANAL = Information analyzed.

INFOCOLL = Information collected.

NTWKBSY = Network Busy. It is a request for the SCP to respond with further routing information. It can be sent as an event detection point request (EDP-R) message as a result of event detection when the SCP requests an NEL that specifies a busy event (the transaction remains open with the SCP).
OANSWER = Originating answer. It is a notification used to notify the SCP of call processing progress. The SCP is not expected to respond to notification messages, and the transaction with the SCP remains open.

Note: Multiple notification messages may be requested by the user (for example, OTERMSZD followed by OANSWER).

OCLDPTYBSY = Originating called party busy. It is a request for the SCP to respond with further routing informations. It can be sent either as a trigger detection point request (TDP-R) message resulting due to trigger events detection (which opens a transaction with SCP) or event detection point request (EDP-R) message as a result of event detection when the SCP requests an NEL that specifies a busy event (the transaction remains open with the SCP).

ODISCONNECT = Originating disconnect. This is a request for the SCP to respond with further routing information. It would be sent as an EDP-R message as a result of event detection when the SCP requests an NEL that specifies an originating disconnect. The transaction with the SCP remains open.

ODTMFENTRD = Originating DTMF (Dial Tone Multi-Frequency) entered. This is a request for the SCP to respond with further routing information. It would be sent as an EDP-R message as a result of event detection when the SCP requests an NEL that specifies an originating DTMF entered event. The transaction with the SCP remains open.

ONOANSWER = Originating no answer. It is a request for the SCP to respond with further routing informations. It can be sent either as a TDP-R message resulting due to trigger events detection (which opens a transaction with SCP) or EDP-R message as a result of event detection when the SCP requests an NEL that specifies a no answer (the transaction remains open with the SCP).

ORIGAT = Origination attempt.

OTERMSZD = Originating termination seized. It is a notification used to notify the SCP of call processing progress. The SCP is not expected to respond to notification messages, and the transaction with the SCP remains open.

RESCLR = Resource clear.

TANSWER = Terminating answer. It is a notification used to notify the SCP of call processing progress. The SCP is not expected to respond to notification messages, and the transaction with the SCP remains open.

TBUSY = Terminating busy. It is a request for the SCP to respond with further routing information. It can be sent either as a TDP-R message resulting due to trigger events detection (which opens a transaction with SCP) or EDP-R message as a result of event detection when the SCP requests a NEL that specifies a busy event (the transaction remains open with the SCP).

TERMAT = Termination attempt.

TNOANSWER = Terminating no answer. It is a request for the SCP to respond with further routing information. It can be sent either as a TDP-R message resulting due to trigger
events detection (which opens a transaction with SCP) or EDP-R message as a result of event detection when the SCP requests a NEL that specifies a terminating no answer (the transaction remains open with the SCP).

TRMRSCAVL = Terminating resource available. It is a notification used to notify the SCP of call processing progress. The SCP is not expected to respond to notification messages, and the transaction with the SCP remains open.

b = The portion of the response message to display. The default is both. The routing portion of the message is always displayed when a SEND TO RESOURCE message is received. This allows information concerning possible subsequent actions to be displayed (that is, number of digits to collect). Valid value(s):

AMA = AMA billing part of the response message.
RTE = Routing part of the response message.
BOTH = Both the AMA billing and routing part of the response message.

c = Called party ID digits (10 digit DN required).

d = Translation type (range of 0-255).

e = Origination point code consisting of a nine digit character string. Refer to the APP:POINT-CODE appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

NG = No good. Includes the following:
- CCS MESSAGE TRANSPORT PATH UNAVAILABLE = SS7 PSU signaling links are not available.
- CLDPTY IS MANDATORY - INCLUDE CLDPTY = The called party ID parameter is mandatory for the requested message. Include the parameter on the command line of the TST:ASPTQ input message.
- CLEAR CAUSE IS MANDATORY, SET CLEAR CAUSE = The clear cause parameter is mandatory for the requested message. Set the parameter with the SET:ASPTQ input message before requesting the test again.
- CONVERSATION NOT IN PROGRESS = A transaction is not open. The resource clear message is only allowed in response to receiving a send to resource conversation message.
- GSM/PROTOCOL MISMATCH = The global switch module (GSM) and the protocol do not match, missing or incorrect data.
- INVALID PARAMETER USED = One or more of the options for format two (message type of NPIFONANAL) were used with format one (a message type other than NPIFONANAL).
- NEXT EVENT LIST NOT IN PROGRESS = A next event list is not in progress. The close, originating answer, Network Busy, and originating termination seized messages are only allowed in response to receiving either an analyze route or forward call conversation message which contains a next event list component.
- NO GLOBAL SM IN OFFICE = The office is not equipped with any GSMS.
- NO SS7 IN OFFICE = The office is not equipped with signaling system 7 (SS7) platform.
- OPC IS INVALID = The entered digits are either invalid (0-9 are allowed), the number of digits
entered is incorrect (there must be nine digits), or the point code was not provisioned in the office.

- **OPC IS NOT AVAILABLE** = Couldn’t get the point code, missing or incorrect data.
- **OPC IS MANDATORY** = The origination point code parameter is mandatory for the requested message. The origination point code parameter has not been included or cannot be determined because the office has multiple GSMS or is equipped with both common network interface (CNI) and packet switch unit (PSU) platforms. Set the parameter with the SET:ASPTQ input message before requesting the test again or include the parameter on the TST:ASPTQ input message for number portability.

- **USERID AND BEARCAP ARE MANDATORY** = The user ID and bearer capability parameters are mandatory for the requested message. The bearer capability parameter has not been set. Set the parameter with the SET:ASPTQ input message before requesting the test again.

- **USERID AND BEARCAP ARE MANDATORY** = The user ID and bearer capability parameters are mandatory for the requested message. The user ID parameter has not been set. Set the parameter with the SET:ASPTQ input message before requesting the test again.

- **USERID, BEARCAP, AND GLOBTITLE ARE MANDATORY** = The user ID, bearer capability, and the global title address parameters are mandatory for the requested message. The bearer capability parameter has not been set. Set the parameter with the SET:ASPTQ input message before requesting the test again.

- **USERID, BEARCAP, AND GLOBTITLE ARE MANDATORY** = The user ID, bearer capability, and the global title address parameters are mandatory for the requested message. The global title address parameter has not been set. Set the parameter with the SET:ASPTQ input message before requesting the test again.

- **USERID, BEARCAP, AND GLOBTITLE ARE MANDATORY** = The user ID, bearer capability, and the global title address parameters are mandatory for the requested message. The user ID parameter has not been set. Set the parameter with the SET:ASPTQ input message before requesting the test again.

- **USERID, BEARCAP, GLOBTITLE, AND OPC ARE MANDATORY** = The origination point code parameter is mandatory for the requested message. The origination point code parameter has not been set or cannot be determined because the office has multiple GSMS or is equipped with both common network interface (CNI) and packet switch unit (PSU) platforms. Set the parameter with the SET:ASPTQ input message before requesting the test again.

- **NO** = The request is not allowed. Valid value(s):
  - **FEATURE NOT AVAILABLE** = The feature associated with the requested functionality must be purchased before attempting to send the particular test query. All ASP 0.1 test queries require that the ASP 0.1 feature must be purchased. In addition, the number portability test query (format two) requires the purchase of the Number Portability - Test Query for LRN feature.

- **OK** = Good. The request was accepted.

- **PF** = Printout follows. Followed by an TST:ASPTQ-AMA, TST:ASPTQ-FAIL, and/or TST:ASPTQ output message.

- **RL** = Retry later. Valid value(s):
  - **FAILED TO SEND TCAP MESSAGE** = Unable to send a message. Retry the test later.
  - **OVERLOAD CONDITION IN CCS MESSAGE TRANSPORT PATH** = SS7 PSU signaling links are
congested.
- SM IS NOT AVAILABLE = A switching module is not available (not operational or overloaded).
  Request the test again after the SMs become available.
- TEST IN PROGRESS = Another test query is currently in progress. Wait for that test query
  transaction to complete before requesting another test.

5. REFERENCES

Input Message(s):

```
SET:ASPTQ
CLR:ASPTQ
OP:ASPTQ
```

Output Message(s):

```
TST:ASPTQ
TST:ASPTQ-AMA
TST:ASPTQ-FAIL
TST:ASPTQ-NP
```

Other Manual(s):

235-190-126  Advanced Services Platform Release 0.1B
1. PURPOSE

Requests sending an advanced services platform (ASP) 0.1 test message to the service control point (SCP). If a response to format one is received from the SCP, the output is divided into two parts for display purposes [routing and automatic message accounting (AMA) billing]. The portion (routing or billing) of the response to display may be specified.

Format two is only for number portability. The only message type valid for this format is NPINFOANAL (information analyzed for number portability). It is used to verify whether a called party (CLDPTY) directory number (DN) is ported and the response to format two will display its location routing number if ported or, if not ported, will say it's not ported and echo back the specified CLDPTY.

WARNING: Using format two of this input message will effectively do a clear of any information analyzed (INFOANAL) parameter settings previously set using the SET:ASPTQ input message except for TRANTYPE, OPC, and TIMER. Using format two of this message will set number portability default values for the bearer capability and trigger type parameters and will set the called party ID, user ID directory number, and global title address parameters based on the called party value (CLDPTY=c) on the command line. If TRANTYPE is included on the command line, the command line value for TRANTYPE will overwrite any previous setting of TRANTYPE using the SET:ASPTQ input message. Use OP:ASPTQ,MSGTYPE=INFOANAL before using this command to see what currently set values may be lost by executing this command. Use OP:ASPTQ,MSGTYPE=INFOANAL after using this command to see what parameters were used in the query.

2. FORMAT

[1] TST:ASPTQ,MSGTYPE=a[,MSGPART=b];

[2] TST:ASPTQ,MSGTYPE=NPINFOANAL,CLDPTY=c[,TRANTYPE=d][,OPC=e][,PLATFORM=f];

3. EXPLANATION OF MESSAGE

a = The type of message to send to the SCP. Valid value(s):
   CLOSE = Close. The CLOSE message type is used to close the transaction with the SCP, and is typically used after sending the final notification message or in place of a request message to indicate caller abandon or an abnormal situation.
   INFOANAL = Information analyzed.
   INFOCOLL = Information collected.
   NTWKBSY = Network Busy. It is a request for the SCP to respond with further routing information. It can be sent as an event detection point request (EDP-R) message as a result of event detection when the SCP requests an NEL that specifies a busy event (the transaction remains open with the SCP).
   OANSWER = Originating answer. It is a notification used to notify the SCP of call processing progress. The SCP is not expected to respond to notification messages, and the transaction with the SCP remains open.
Note: Multiple notification messages may be requested by the user (for example, _OTERMSZD_ followed by _OANSWER_).

_**OCLDPTYBSY** _= Originating called party busy. It is a request for the SCP to respond with further routing informations. It can be sent either as a trigger detection point request (TDP-R) message resulting due to trigger events detection (which opens a transaction with SCP) or event detection point request (EDP-R) message as a result of event detection when the SCP requests an NEL that specifies a busy event (the transaction remains open with the SCP).

_**ODISCONNECT** _= Originating disconnect. This is a request for the SCP to respond with further routing information. It would be sent as an EDP-R message as a result of event detection when the SCP requests an NEL that specifies an originating disconnect. The transaction with the SCP remains open.

_**ODTMFENTRD** _= Originating DTMF (Dial Tone Multi-Frequency) entered. This is a request for the SCP to respond with further routing information. It would be sent as an EDP-R message as a result of event detection when the SCP requests an NEL that specifies an originating DTMF entered event. The transaction with the SCP remains open.

_**ONOANSWER** _= Originating no answer. It is a request for the SCP to respond with further routing informations. It can be sent either as a TDP-R message resulting due to trigger events detection (which opens a transaction with SCP) or EDP-R message as a result of event detection when the SCP requests an NEL that specifies a no answer (the transaction remains open with the SCP).

_**ORIGAT** _= Origination attempt.

_**OTERMSZD** _= Originating termination seized. It is a notification used to notify the SCP of call processing progress. The SCP is not expected to respond to notification messages, and the transaction with the SCP remains open.

_**RESCLR** _= Resource clear.

_**TANSWER** _= Terminating answer. It is a notification used to notify the SCP of call processing progress. The SCP is not expected to respond to notification messages, and the transaction with the SCP remains open.

_**TBUSY** _= Terminating busy. It is a request for the SCP to respond with further routing information. It can be sent either as a TDP-R message resulting due to trigger events detection (which opens a transaction with SCP) or EDP-R message as a result of event detection when the SCP requests a NEL that specifies a busy event (the transaction remains open with the SCP).

_**TERMAT** _= Termination attempt.

_**TNOANSWER** _= Terminating no answer. It is a request for the SCP to respond with further routing information. It can be sent either as a TDP-R message resulting due to trigger events detection (which opens a transaction with SCP) or EDP-R message as a result of event detection when the SCP requests a NEL that specifies a terminating no answer (the transaction remains open with the SCP).

_**TRMRSRCAVL** _= Terminating resource available. It is a notification used to notify the SCP of call processing progress. The SCP is not expected to respond to notification messages, and the transaction with the SCP remains open.

_**b**_ = The portion of the response message to display. The default is both. The routing portion of the message is always displayed when a SEND TO RESOURCE message is received. This allows information concerning possible subsequent actions to be displayed (that is, number of digits to collect). Valid value(s):

_**AMA** _= AMA billing part of the response message.
RTE = Routing part of the response message.

BOTH = Both the AMA billing and routing part of the response message.

c = Called party ID digits (10 digit DN required).

d = Translation type (range of 0-255).

e = Origination point code consisting of a nine digit character string. Refer to the APP:POINT-CODE appendix in the Appendixes section of the Input Messages manual.

f = Signaling Platform. Valid value(s):

0 = Common Network Interface (CNI) Platform
1 - 192 = Global Switching Module (GSM) Number

Note: this option is mandatory in a multi-platform office.

4. SYSTEM RESPONSE

NG = No good. May also include:

- CCS MESSAGE TRANSPORT PATH UNAVAILABLE = SS7 PSU signaling links are not available.
- CLDPTY IS MANDATORY - INCLUDE CLDPTY = The called party ID parameter is mandatory for the requested message. Include the parameter on the command line of the TST:ASPTQ input message.
- CLEAR CAUSE IS MANDATORY, SET CLEAR CAUSE = The clear cause parameter is mandatory for the requested message. Set the parameter with the SET:ASPTQ input message before requesting the test again.
- CONVERSATION NOT IN PROGRESS = A transaction is not open. The resource clear message is only allowed in response to receiving a send to resource conversation message.
- GSM/PROTOCOL MISMATCH = The global switch module (GSM) and the protocol do not match, missing or incorrect data.
- INVALID PARAMETER USED = One or more of the options for format two (message type of NPINFOANAL) were used with format one (a message type other than NPINFOANAL).
- NEXT EVENT LIST NOT IN PROGRESS = A next event list is not in progress. The close, originating answer, Network Busy, and originating termination seized messages are only allowed in response to receiving either an analyze route or forward call conversation message which contains a next event list component.
- NO GLOBAL SM IN OFFICE = The office is not equipped with any GSMs.
- NO SS7 IN OFFICE = The office is not equipped with signaling system 7 (SS7) platform.
- OPC IS INVALID = The entered digits are either invalid (0-9 are allowed), the number of digits entered is incorrect (there must be nine digits), or the point code was not provisioned in the office.
- OPC IS NOT AVAILABLE = Couldn’t get the point code, missing or incorrect data.
- OPC IS MANDATORY - INCLUDE OR SET OPC = The origination point code parameter is mandatory for the requested message. The origination point code parameter has not been included or cannot be determined because the office has multiple GSMs or is equipped with both common network interface (CNI) and packet switch unit (PSU) platforms. Set the parameter with the SET:ASPTQ input message before...
requesting the test again or include the parameter on the TST:ASPTQ input message for number portability.
- OPC NOT ON PLATFORM = Could not find the point code on the platform entered.
- PLATFORM IS INVALID = The entered signaling platform is either invalid or the platform entered is not provisioned in the office.
- PLATFORM IS MANDATORY – INCLUDE OR SET PLATFORM = The signaling platform is mandatory for the requested message. The signaling platform has not been included or cannot be determined because the office has multiple global switch modules (GSMs) or the office is equipped with both common network interface (CNI) and packet switch unit (PSU) platforms. Set the parameter with the SET:ASPTQ input message before requesting the test again or include the parameter on the TST:ASPTQ input message for number portability.
- USERID AND BEARCAP ARE MANDATORY – SET BEARCAP = The user ID and bearer capability parameters are mandatory for the requested message. The bearer capability parameter has not been set. Set the parameter with the SET:ASPTQ input message before requesting the test again.
- USERID AND BEARCAP ARE MANDATORY – SET USERID = The user ID and bearer capability parameters are mandatory for the requested message. The user ID parameter has not been set. Set the parameter with the SET:ASPTQ input message before requesting the test again.
- USERID, BEARCAP, AND GLOBTITLE ARE MANDATORY – SET BEARCAP = The user ID, bearer capability, and the global title address parameters are mandatory for the requested message. The bearer capability parameter has not been set. Set the parameter with the SET:ASPTQ input message before requesting the test again.
- USERID, BEARCAP, AND GLOBTITLE ARE MANDATORY – SET GLOBTITLE = The user ID, bearer capability, and the global title address parameters are mandatory for the requested message. The global title address parameter has not been set. Set the parameter with the SET:ASPTQ input message before requesting the test again.
- USERID, BEARCAP, AND GLOBTITLE ARE MANDATORY – SET USERID = The user ID, bearer capability, and the global title address parameters are mandatory for the requested message. The user ID parameter has not been set. Set the parameter with the SET:ASPTQ input message before requesting the test again.
- USERID, BEARCAP, GLOBTITLE, AND OPC ARE MANDATORY – SET OPC = The origination point code parameter is mandatory for the requested message. The origination point code parameter has not been set or cannot be determined because the office has multiple GSMs or is equipped with both common network interface (CNI) and packet switch unit (PSU) platforms. Set the parameter with the SET:ASPTQ input message before requesting the test again.

NO = The request is not allowed. Valid value(s):
- FEATURE NOT AVAILABLE = The feature associated with the requested functionality must be purchased before attempting to send the particular test query. All ASP 0.1 test queries require that the ASP 0.1 feature must be purchased. In addition, the number portability test query (format two) requires the purchase of the Number Portability - Test Query for LRN feature.

OK = Good. The request was accepted.

PF = Printout follows. Followed by an TST:ASPTQ-AMA, TST:ASPTQ-FAIL, and/or TST:ASPTQ output message.

RL = Retry later. May also include:
- FAILED TO SEND TCAP MESSAGE = Unable to send a message. Retry the test later.
- OVERLOAD CONDITION IN CCS MESSAGE TRANSPORT PATH = SS7 PSU signaling links are congested.
- SM IS NOT AVAILABLE = A switching module is not available (not operational or overloaded). Request the test again after the SMs become available.
- TEST IN PROGRESS = Another test query is currently in progress. Wait for that test query transaction to complete before requesting another test.

5. REFERENCES

Input Message(s):

SET:ASPTQ
CLR:ASPTQ
OP:ASPTQ

Output Message(s):

TST:ASPTQ
TST:ASPTQ-AMA
TST:ASPTQ-FAIL
TST:ASPTQ-NP

Other Manual(s):
235-190-126 Advanced Services Platform Release 0.1B
TST:AT1

Software Release: 5E14 and later
Command Group: CCS
Application: 5
Type: Input

1. PURPOSE

Requests that an ANSI® transaction capabilities application part (TCAP) Type I test query be sent to a billing validation database to verify its operation.

2. FORMAT

TST:AT1,CCRD=a-b-c,{CLG|ICLG}=d,TTYP=e[,CICEXP][,{CLD|ICLD}=f];

3. EXPLANATION OF MESSAGE

CICEXP = Carrier identification code (CIC) expansion indicator - presence of this keyword indicates that the CIC sent by the database in the response message should be in the 4-digit format. Absence of the keyword indicates that the CIC should contain 3 digits. Note that currently the CIC is not used by Operator Services Position System (OSPS); therefore, there is no CIC in the test output message TST:AT1.

a = Issuer identification number of the telecommunications calling card (89C) or commercial credit card (CCC) number to be queried. This field will be 2 to 7 digits in length (enter the full card number).

b = Individual account number of the 89C or CCC card to be queried. This includes a check number, if required. This field will be a maximum of 15 digits; however, this field together with the issuer identification number will be 7 to 19 digits in length.

c = The 4-digit personal identification number (PIN) of the credit card to be queried.

d = The calling number, also known as the automatic number identification (ANI), or the back number.

e = Translation type. The translation type is used in the TCAP query to indicate to the signaling transfer point (STP) which translation tables should be used to obtain routing information for the query. The translation type is a number from 0 to 255.

f = The called number.

<table>
<thead>
<tr>
<th>Prefix:</th>
<th>Explanation:</th>
</tr>
</thead>
<tbody>
<tr>
<td>CLG=</td>
<td>This is a 10-digit directory number for a North American numbering plan (NANP) calling number.</td>
</tr>
<tr>
<td>ICLG=</td>
<td>This is a 1- to 3-digit international country code or a 4- to 15-digit full international number for an international calling number.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Prefix:</th>
<th>Explanation:</th>
</tr>
</thead>
<tbody>
<tr>
<td>CLD=</td>
<td>This is a 10-digit directory number for a NANP called number. Note that 411 and other N11 numbers must be entered as N11000000.</td>
</tr>
<tr>
<td>ICLD=</td>
<td>This is a 1- to 3-digit international country code or a 4- to 15-digit full international number for an international called number.</td>
</tr>
</tbody>
</table>

4. SYSTEM RESPONSE
NG

- No good. Includes one of the following:
  - CNI NOT AVAILABLE = The query request cannot be sent to the billing validation data base because the common network interface (CNI) is not available.
  - FEATURE NOT AVAILABLE = The requested action failed. The feature required to process the request is not present in the switch or the given module.
  - INCOMPATIBLE ICLG AND CLD NUMBERS = The international calling number is incompatible with a NANP called number of 4110000000. Specify the NANP called number as NPA-555-1212.
  - INTERNAL ERROR = There is an internal error with the query format.
  - INVALID CARD NUMBER = The input card number must be at least 7 digits, and at most 19 digits in length. The card number is composed of the issuer identification number and the individual account number (including the check number).
  - INVALID CLD NUMBER = The called number is invalid. The NANP called number must be a 10-digit directory number.
  - INVALID CLG NUMBER = The calling number is invalid. The NANP calling number must be a 10-digit directory number.
  - INVALID ISSUER ID NUMBER = The issuer identification number must be at least 2 digits, and at most 7 digits in length.
  - INVALID PIN = The PIN must be 4 digits in length.
  - INVALID TRANSLATION TYPE = The translation type must be a number from 0 to 255.

PF

- Printout follows. The request has been received. Output message TST:AT1 follows.

RL

- Retry later. Includes the following:
  - TEST IN PROGRESS = Another common channel signaling (CCS) test is in progress.

5. REFERENCES

Input Message(s):

EXC:DSTT
TST:BNS
TST:CAS
TST:CAS7
TST:CCRD
TST:ICCV
TST:INWATS
TST:NCD
TST:RATE

Output Message(s):

EXC:DSTT
TST:AT1
TST:BNS
TST:CAS
TST:CAS7
TST:CCRD
TST:ICCV
TST:INWATS
TST:LIDB-BNS
TST:LIDB-CCRD
TST:NCD
TST:RATE
1. PURPOSE

Requests that a billed number screening (BNS) query be sent to the billing validation application (BVA), the line information database (LIDB), or the LIDB alternate destination (LALT) to verify its operation.

2. FORMAT

[1] TST:BNS=a[-BVA];

[2] TST:BNS=a-LIDB[,{CLG|ICLG}=b] [,{CLD|ICLD}=c,CICEXP];


3. EXPLANATION OF MESSAGE

CICEXP  = Carrier identification code (CIC) expansion indicator - presence of this keyword indicates that the CIC sent by LIDB in the response message should be in the 4-digit format. Absence of the keyword indicates that the CIC should contain 3 digits. Note that currently the CIC could be sent by LIDB but it is not used by Operator Services Position System (OSPS) therefore there is no CIC in the test output message TST:LIDB-BNS.

a  = 10-digit billing number to be queried in the form NPANXXXXXX.

b  = Calling number, also known as the automatic number identification (ANI), or the back number.

c  = Called number.

d  = Originating line screening (OLS) code. Valid range is 1 - 999. If this entry is omitted, a default value of 0 (no OLS) is used.

e  = Originating station type (OST). Valid value(s):
   ACQS  = Other ACQS station.
   ACQSHOTL = Automatic charge quotation service (ACQS) hotel station.
   CNPRE = Pre-paid coin station.
   CNPST = Post-paid coin station.
   NAHOTL = Non-ACQS hotel.
   NCNPUB = Non-coin public station.
   OTHER = Other station.
UNKN = Unknown station.

f = Call type (CT). This is the type of call, collect, bill to third, or none. Valid value(s):
COLLECT = Collect.
NONE = No call type (default).
PAID = Sent-paid.
THIRD = Bill to third.

4. SYSTEM RESPONSE

NG = No good. Includes one of the following:
- CICEXP ALLOWED ONLY FOR LIDB AND LALT = The carrier identification code expansion indicator may only be used if LIDB translation capabilities application part (TCAP) interface is the protocol used to access the database.
- CLD/ICLD NOT ALLOWED FOR BVA = The called number may not be specified if the database is specified as BVA.
- CLG/ICLG NOT ALLOWED FOR BVA = The calling number may not be specified if the database is specified as BVA.
- CNI NOT AVAILABLE = The query test cannot be sent to the BVA, LIDB, or LALT database because the common network interface (CNI) is not available.
- CT ALLOWED ONLY FOR LALT = The call type may only be specified if the database is specified as LALT.
- FEATURE NOT AVAILABLE = The requested action failed. The feature required to process the request is not present in the switch or the given module.
- INCOMPATIBLE ICLG AND CLD NUMBERS = The international calling number is incompatible with a NANP called number of 4110000000 or 411. Specify the NANP called number as NPA-555-1212.
- INTERNAL ERROR = There is an internal error with the LIDB query format.
- INVALID CLD NUMBER = The called number is invalid. The NANP called number must be a 10-digit directory number.
- INVALID CLG NUMBER = The calling number is invalid. The NANP calling number must be a 10-digit directory number.
- INVALID INPUT = The billing number must be ten digits.
- OLS ALLOWED ONLY FOR LALT = The OLS may only be specified if the database is specified as LALT.
- OLS RANGE IS 1 - 999 = The valid range for the OLS is 1 to 999, inclusive.
- OST ALLOWED ONLY FOR LALT = The OST may only be specified if the database is specified as LALT.

PF = Printout follows. The request has been received. If BVA was specified, output message TST:BNS follows. If LIDB or LALT was specified, output message TST:LIDB-BNS follows.

RL = Retry later. Includes one of the following:
- CNI/DLN PROBLEM = The test message cannot be sent - CNI is in overload or no active direct link node (DLN) is available.
- TEST IN PROGRESS = Another common channel signaling (CCS) test is in progress.
- TOO MANY QUERIES RUNNING = No BNS query IDs are available.
5. REFERENCES

Input Message(s):

EXC:DSTT
TST:AT1
TST:CAS
TST:CAS7
TST:CCRD
TST:ICCV
TST:INWATS
TST:NCD
TST:RATE

Output Message(s):

EXC:DSTT
TST:AT1
TST:BNS
TST:CAS
TST:CAS7
TST:CCRD
TST:ICCV
TST:INWATS
TST:LIDB-BNS
TST:LIDB-CCRD
TST:NCD
TST:RATE
TST:BTSR

**Software Release:** 5E14 and later
**Command Group:** SM
**Application:** 5
**Type:** Input

1. **PURPOSE**

Invokes the bootstrapper board (BTSR) resident diagnostic.

2. **FORMAT**

TST:BTSR=a;

3. **EXPLANATION OF MESSAGE**

a = Switching module (SM) number

4. **SYSTEM RESPONSE**

**NG** = No good. The request has been denied. The message form is valid, but the request conflicts with current status.

**PF** = Printout follows. The request was accepted. Followed by a TST:BTSR output message.

5. **REFERENCES**

Output Message(s):

TST:BTSR
1. PURPOSE

Requests that a customer account services (CAS) query be sent to the CAS/network control point (NCP) data base to verify its operation.

2. FORMAT

TST:CAS=a[-b];

3. EXPLANATION OF MESSAGE

a = The 14-digit CAS account number to be queried (consists of a 10-digit individual account number plus a 4-digit personal identification number (PIN)).

b = The called number. For a domestic call this is a 10-digit directory number. For an international call this is a 1- to 3-digit international country code. For queries with no called number, this is 0. If this entry is omitted, a default value of 0 (no called number) will be used. Note that 411 and other N11 numbers must be entered as N110000000 in order to distinguish the N11 number from a 3-digit international country code.

4. SYSTEM RESPONSE

NG = No good. May also include:
- CALLED NUMBER = The called number must be a 10-digit domestic number, a 1- to 3-digit international country code, or 0.
- CARD NUMBER = The input CAS card number must be 14 digits.
- CNI NOT AVAILABLE = The query test cannot be sent to the CAS/NCP data base because the common network interface (CNI) is not available.
- FEATURE NOT AVAILABLE = The requested action failed. The feature required to process the request is not present in the switch or the given module.
- INVALID INPUT = The query could not be formatted with the data input.

PF = Printout follows. The request has been received. Output message TST CAS will follow.

RL = Retry later. May also include:
- CNI/DLN PROBLEM = The test message cannot be sent- CNI is in overload or no active direct link node (DLN) is available.
- INTERNAL ERROR = An invalid CAS query identifier (QID) was obtained.
- TEST IN PROGRESS = Another common channel signaling (CCS) test is in progress.
- TOO MANY QUERIES RUNNING = No CAS query IDs are available.

5. REFERENCES

Input Message(s):
Output Message(s):
TST:CAS7

Software Release: 5E14 and later
Command Group: CCS
Application: 5
Type: Input

1. PURPOSE

Requests that a customer account services (CAS) Common Channel Signaling System 7 (CCS7) transaction capabilities application part (TCAP) test query be sent to the CAS/network control point (NCP) or gateway/NCP data base to verify its operation.

2. FORMAT

TST:CAS7=a-b-c,TTYP=d[{,CLD|ICLD}=e][,{CLG|ICLG}=g][,SDC=h][,CTYP=i];

3. EXPLANATION OF MESSAGE

a = Issuer identification number of the telecommunications calling card (89C) or commercial credit card (CCC) number to be queried. This field will be 2-7 digits in length (enter the full card number).

b = Individual account number of the 89C or CCC card to be queried. This includes a check number, if required. This field will be a maximum of 15 digits; however, this field together with the issuer identification number will be 7-19 digits in length.

c = Personal identification number (PIN). The PIN can be a maximum of 13 digits. If no PIN exists for the card, enter 0.

d = Translation type. The translation type is used in the TCAP query to indicate to the signaling transfer point (STP) which translation tables should be used to obtain routing information for the query. The translation type is a number from 0 to 255.

e = Called number. For international numbers, use the ICLD= label with a 1- to 15-digit international number. For North American numbering plan (NANP) numbers use the CLD= label with a 10-digit phone number. For queries with no called number, this is 0. If this entry is omitted, a default value of 0 (no called number) will be used. Note that 411 and other N11 numbers must be entered as N110000000. Note also that customer-initiated card calls to 411 contain LOCAL NPA-555-1212 as the called number in the card query to the NCP. Test queries need LOCAL NPA-555-1212 explicitly specified. A called number may not be entered if a speed dial code (SDC) is also entered.

f = CAS service specifier. The CAS service specifier is used in the CCS7 TCAP query to indicate the type of query associated with the call. Valid value(s):
   IVI = For inward queries.
   NORMAL = For other queries (standard card validation).
   RQV = For rate quote queries.
   SDAP = For speed dial auto provisioning (SDAP) queries.
   Note If this field is omitted, the default value NORMAL will be used.

= Calling number. This is either a 10-digit NANP number, a 1-to 3-digit international country code, or a 7-digit DIOR number. If this entry is omitted, no calling number will be used. For international numbers, use the ICLG= label with a 4- to 15-digit international number. For NANP numbers use the CLG= label with a 10-digit phone number.
= Speed dial code. This is a one to three digit number that may not begin with 0. A speed dial code may not be entered if a called (CLD) number is also entered.

= Card type. This is required if the sum of the lengths of the issuer identification number, individual account number, and PIN is 14. The card type is prohibited if the entered card number length is not 14. Valid value(s):

| CIID       | Carrier issuer identifier card. |
| INIT       | AT&T 14 digit True Choice™ calling card, initial call. |
| SEQ        | AT&T 14 digit True Choice™ calling card, sequence call. |

4. SYSTEM RESPONSE

= No good. May also include:

- CNI NOT AVAILABLE = The test query cannot be sent to the CAS/NCP database because the common network interface (CNI) or CCS7 links are not available.
- CTYP ONLY ACCEPTED WITH 14 DIGIT CARD NUMBER = A card type value can only be entered when the sum of the lengths of the issuer identification number, individual account number, and PIN is 14 digits.
- CTYP REQUIRED WITH 14 DIGIT CARD NUMBER = When the sum of the lengths of the issuer identification number, individual account number, and PIN is 14 digits, a card type value must be entered.
- FEATURE NOT AVAILABLE = The requested action failed. The feature required to process the request is not present in the switch or the given module.
- INVALID CLD NUMBER = The called number must be a 10-digit NANP number.
- INVALID ICLD NUMBER = The international called number must be a 4- to 15-digit international number.
- INVALID CALLING NUMBER = The calling number must be a 10-digit NANP number, a 1- to 3-digit international country code, or 0.
- INVALID CARD NUMBER = The input card number must be at least 7 digits, and at most 19 digits in length. The card number is composed of the issuer identification number and the individual account number (including the check number).

If a 14-digit card number is entered and the card type is either INIT or SEQ, then the first and fourth digits must be 2 or higher.

- INVALID ISSUER ID NUMBER = The issuer identification number must be at least 2 digits, and at most 7 digits in length.
- INVALID PIN OR EXPIRATION DATE = The PIN or EXPIRATION DATE must be at most 13 digits in length.
- INVALID SERVICE SPECIFIER = Invalid specifier. May also include:
  - 6 = For rate quote query.
  - IVI = For inward query.
  - NORMAL = For standard card validation.
  - SDAP = For SDAP query.

- INVALID SPEED CODE = The speed dial code must be from one to three digits and may not begin with 0.
- INVALID TRANSLATION TYPE = The translation type must be a number from 0 to 255.
- SDC NOT ALLOWED WITH CLD = A speed dial code may not be entered if a called number is also entered.
PF = Printout follows. The request has been received. Output message TST:CAS7 will follow.

RL = Retry later. May also include:
- INTERNAL ERROR = There was a problem reading the RLDS_APP relation (Recent Change/Verify View 8.17), to obtain the subsystem number.
- TEST IN PROGRESS = Another common channel signaling (CCS) test is in progress.

5. REFERENCES

Input Message(s):

EXC:DSTT
TST:BNS
TST:CAS
TST:CCRD
TST:ICCV
TST:INWATS
TST:NCD
TST:RATE

Output Message(s):

EXC:DSTT
TST:BNS
TST:CAS
TST:CAS7
TST:CCRD
TST:ICCV
TST:INWATS
TST:NCD
TST:RATE
TST:SDAP

RC/V View(s):

8.17 (DIRECT SIGNALING APPLICATIONS)
1. PURPOSE

Requests that a calling card (CCRD) query be sent using the billing validation application (BVA) interface, the line information database (LIDB) transaction capability application part (TCAP) interface, or to the LIDB alternate destination (LALT) using the LIDB TCAP interface to verify its operation.

2. FORMAT

[1] TST:CCRD=a[-BVA];

[2] TST:CCRD=a-LIDB, {CLG|ICLG}=b, {CLD|ICLD}=c[,CICEXP];

[3] TST:CCRD=a-LALT, {CLG|ICLG}=b, {CLD|ICLD}=c[,OLS=d][,OST=e][,CICEXP];

3. EXPLANATION OF MESSAGE

CICEXP = Carrier identification code (CIC) expansion indicator - presence of this keyword indicates that the CIC sent by LIDB in the response message should be in the 4-digit format. Absence of the keyword indicates that the CIC should contain 3 digits.

Note: Currently the CIC could be sent by LIDB but it is not used by Operator Services Position System (OSPS) therefore there is no CIC in the test output message TST:LIDB-CCRD.

a = Fourteen-digit calling card number to be queried, in the form NPANXXXXXXYYYY or RAO[0/1]XXXXXXYYYY.

b = The calling number, also known as the automatic number identification (ANI), or the back number.

c = The called number.

<table>
<thead>
<tr>
<th>Prefix:</th>
<th>Explanation:</th>
</tr>
</thead>
<tbody>
<tr>
<td>CLG=</td>
<td>This is a 10-digit directory number for a North American numbering plan (NANP) calling number.</td>
</tr>
<tr>
<td>ICLG=</td>
<td>This is a 1- to 3-digit international country code or a 4- to 15-digit full international number for an international calling number.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Prefix:</th>
<th>Explanation:</th>
</tr>
</thead>
<tbody>
<tr>
<td>CLD=</td>
<td>This is a 10-digit directory number for a NANP called number. Note that 411 and other N11 numbers must be entered as N11000000.</td>
</tr>
<tr>
<td>ICLD=</td>
<td>This is a 1- to 3-digit international country code or a 4- to 15-digit full international number for an international called number.</td>
</tr>
</tbody>
</table>

d = Originating line screening (OLS) code. Valid range is 1 - 999. If this entry is omitted, a default value of 0 (no OLS) is used.

e = Originating station type (OST). Valid value(s):

<table>
<thead>
<tr>
<th>Value</th>
<th>Explanation:</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACQS</td>
<td>Other ACQS station.</td>
</tr>
<tr>
<td>ACQSHOTL</td>
<td>Automatic charge quotation service (ACQS) hotel station.</td>
</tr>
<tr>
<td>CNPRE</td>
<td>Pre-paid coin station.</td>
</tr>
</tbody>
</table>
4. SYSTEM RESPONSE

NG = No good. Includes one of the following:
- CICEXP ALLOWED ONLY FOR LIDB AND LALT = The carrier identification code expansion indicator (CICEXP) may only be used if LIDB TCAP interface is the protocol used to access the database.
- CLD/ICLD ALLOWED ONLY FOR LIDB AND LALT = The called number may only be specified if LIDB TCAP interface is the protocol used to access the database.
- CLG/ICLG ALLOWED ONLY FOR LIDB AND LALT = The calling number may only be specified if LIDB TCAP interface is the protocol used to access the database.
- CNI NOT AVAILABLE = The query request cannot be sent to the BVA, LIDB, or LALT database because the common network interface (CNI) is not available.
- FEATURE NOT AVAILABLE = The requested action failed. The feature required to process the request is not present in the switch or the given module.
- INCOMPATIBLE ICLG AND CLD NUMBERS = The international calling number is incompatible with a NANP called number of 4110000000. Specify the NANP called number as NPA-555-1212.
- INTERNAL ERROR = There is an internal error with the LIDB query format.
- INVALID CLD NUMBER = The called number is invalid. The NANP called number must be a 10-digit directory number.
- INVALID CLG/ICLG NUMBER = The calling number is invalid. The calling number must be specified if LIDB TCAP interface is the protocol used to access the database, and a NANP calling number must be a 10-digit directory number.
- INVALID INPUT = The calling card number must be fourteen digits.
- OLS ALLOWED ONLY FOR LALT = The OLS may only be specified if the database is specified as LALT.
- OLS RANGE IS 1 - 999 = The valid range for OLS is 1 to 999, inclusive.
- OST ALLOWED ONLY FOR LALT = The OST may only be specified if the database is specified as LALT.

PF = Printout follows. The request has been received. If BVA was specified, output message TST:CCRD follows. If LIDB or LALT was specified, output message TST:LIDB-CCRD follows.

RL = Retry later. Includes one of the following:
- CNI/DLN PROBLEM = The test message cannot be sent. CNI is in overload or no active direct link node (DLN) is available.
- TEST IN PROGRESS = Another common channel signaling (CCS) test is in progress.
- TOO MANY QUERIES RUNNING = No calling card query IDs are available.

5. REFERENCES

Input Message(s):

EXC:DSTT
TST:AT1
TST:BNS
TST:CAS
TST:CAS7
TST:ICCV
TST:INWATS
TST:NCD
TST:RATE

Output Message(s):

EXC:DSTT
TST:AT1
TST:BNS
TST:CAS
TST:CAS7
TST:CCRD
TST:ICCV
TST:INWATS
TST:LIDB-BNS
TST:LIDB-CCRD
TST:NCD
TST:RATE
TST:CCS-GSMCFG

Software Release: 5E15 and later
Command Group: CCS
Application: 5
Type: Input

1. PURPOSE

Requests that a report is issued indicating whether Generic Retrofit Selective Initialization may proceed with minimal impact on CCS capability.

2. FORMAT

TST:CCS,GSMCFG[,OPT=a];

3. EXPLANATION OF MESSAGE

a  = Command line option string passed to the unix command: /prc/supr/gsmcnfg. If no option string is specified, a summary of possible command line options are printed on the ROP and displayed on the terminal.

4. SYSTEM RESPONSE

NG  = No good. May also include:
   - NO GLOBAL SM  = No GSM is provisioned in the office.
   - GSM MISMATCH  = The specified SM does not exist or is not a GSM.

RL  = Retry later. May also include:
   - DATA BEING UPDATED = The input message cannot be processed because the relations that contain the status of linksets, DPCs, clusters, networks, PHs, etc. are being updated either by a traffic diversion terminal process or by audits.
   - MSG NOT SENT TO CLIENT PROC = The input message cannot be processed because the signaling traffic route and management (STRM) system process failed to create the terminal process.

PF  = Printout Follows. Followed by the TST:CCS,GSMCFG output message.

5. REFERENCES

Input Message(s):

OP:CCS-ROUTE
OP:CCS-LSCLS

Output Message(s):

TST:CCS-GSMCFG

Other Manual(s):
Common Channel Signaling Service Features
Office Generic Retrofit

MCC Display Page(s):
1532  (CCS LINK SET SUMMARY)
1533  (CCS LINK SET MEMBER)

RC/V View(s):
(SIGNALING LINK SET)
(SIGNALING LINK SET MEMBER)
(COMBINED SIGNALING LINK SET)
(NETWORK ROUTING)
(CLUSTER ROUTING)
(SIGNALING POINT CODE)
**TST:CCSLK**

*Software Release:* 5E14 and later  
*Command Group:* CCS  
*Application:* 5  
*Type:* Input

1. **PURPOSE**

Schedules a link test to be run on a signaling link. The link tests are conducted to ensure that message traffic can travel across the signaling links.

Note: This input message is applicable only for packet switching unit (PSU) platform CCS7.

2. **FORMAT**

   TST:CCSLK,SET=a[&&b],MEMBER=c[&&d][,SM=e];

3. **EXPLANATION OF MESSAGE**

   a  = Link set number or lower limit of a range of link set numbers. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual. When a range is specified, only equipped numbers in the range will be processed. The range of numbers need not start or end with equipped link set numbers.

   b  = Upper limit of a range of link set numbers.

   c  = Link member number or lower limit of a range of link member numbers. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual. When a range is specified, only equipped numbers in the range will be processed. Range of numbers need not start or end with equipped link member numbers.

   d  = Upper limit of a range of link member numbers.

   e  = Global switching module (GSM) number. Common channel signaling (CCS) GSM number where the link to be tested is located. If no SM number is specified and only one CCS GSM exists in the office, the specified link on that GSM will be tested. If multiple CCS GSms exist in the office, the SM must be specified.

4. **SYSTEM RESPONSE**

   NG = No good. May also include:
   - GSM MISMATCH = The specified SM is not a GSM or the SM does not exist.
   - NO GLOBAL SM = No GSM is provisioned in the office.
   - NEED GSM NUMBER = SM was not specified in the input message, and office has more than one GSM provisioned.

   PF = Printout follows. Followed by the TST:CCSLK output message.

   RL = Retry later. May also include:
   - SM NOT AVAILABLE = Command cannot be processed because the specified GSM is not accessible.
5. REFERENCES

Output Message(s):

TST:CCSLK

Input Appendix(es):

APP: RANGES

Other Manual(s):
235-190-120  Common Channel Signaling Service Features

MCC Display Page(s):

1532 (CCS LINK SET SUMMARY)
1533 (CCS LINK SET MEMBER)
TST:DLNHB

Software Release: 5E14 and later
Command Group: CCS
Application: 5,CNI
Type: Input

1. PURPOSE

Requests a manual direct link node (DLN) "heartbeat test" execution for a specific switching module (SM). The DLN heartbeat test checks each SM for its ability to communicate with the DLN. This input message allows the user to test a particular SM to insure that it can process messages from the DLN. If problems exist the REPT:DLN output message generated will help in the solution.

2. FORMAT

TST:DLNHB,SM=a;

3. EXPLANATION OF MESSAGE

a = SM number.

4. SYSTEM RESPONSE

NG = No good. May also include:
- DLNS ARE NOT EQUIPPED = This test can only be run on common network interface (CNI) rings equipped with DLNs. This ring does not have DLNs.
- SM NOT AVAILABLE = The SM chosen is either not equipped or cannot process messages at this time.

PF = Printout follows. The REPT:DLN and REPT:TST-DLN request has been received and test is being executed.

RL = Retry later. May also include:
- AM INIT IN PROGRESS = The administrative module (AM) is currently in an initialization state. This test cannot be run at this time.
- CNI NOT AVAILABLE = The CNI ring is not available at this time.
- DLN NOT AVAILABLE = The DLNs are not in active/standby state.
- DLN SWITCH IN PROGRESS = The DLNs are switching states. Communications to the DLN is not possible at this time.
- RING IS IN SILENCE STATE = Communication both to and from the node is not available at this time.
- TST DLNHB CURRENTLY INPROG = A previous test is currently in progress. Only one test at a time is allowed.

5. REFERENCES

Output Message(s):

REPT:DLN
REPT:TST-DLNHB
TST:DSL

**Software Release:** 5E14 and later
**Command Group:** TRKLN
**Application:** 5
**Type:** Input

**WARNING:** INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. **PURPOSE**

To test the specified integrated service digital network (ISDN) basic rate interface (BRI) using digital, analog or metallic techniques (digital subscriber line (DSL) and BRI are used interchangeably in this message).

**WARNING:** Mismatch tests and loop-back tests deny customer service on associated DSL channels for the duration of the request. In general, tests that include the D-channel (explicitly or implicitly) block all call processing on the DSL.

Specifically, the test type parameter is used to request digital loop-back (LPBK) testing, corrupt cyclic redundancy check (CRC) testing or hardware mismatch testing. Testing of DSLs is supported in all configurations of the access interface unit (AIU), integrated services line unit (ISLU), integrated services line unit, version 2 (ISLU2), integrated digital carrier unit (IDCU), and digital network unit - synchronous optical network (SONET) (DNU-S). In addition, testing DSLs of both custom and standard (layer 3) interface types is supported.

The types of DSL (layer 1) interfaces supported are the T-interface (T) and the U-interface (U). The U-interface DSLs (U-DSLs), are supported by alternate mark inversion (AMI) and 2 binary 1 quaternary (2B1Q) technologies. The 2B1Q version supports the standard defined by the ANSI®. For the remainder of this message, the term ANSI® refers to the 2B1Q version.

The IDCU and DNU-S connect a remote digital terminal (RDT) using the TR-303 interface. The RDT equivalent of the ISLU line card (LC) is called a channel unit (CU). Any type of LC, line circuit (LCKT) or RDT CU are collectively referred to as the line termination (LT) throughout this message.

Unless otherwise stated: all references to ISLU include all configurations of the ISLU and the ISLU2. This includes both the remote integrated services line unit (RISLU) and remote integrated services line unit version 2 (RISLU2). All references to AIU include the remote access interface unit (RAIU). Reference to line unit (LU) includes all supported ISDN compatible LUs.

Any TST:DSL request may be stopped using the STP:TST-DSL input message (with the exception of IDCU or DNU-S CRC test which must execute until completion, as per specification).

The following message formats indicate the parameters that apply to specific test types as used for ISLU, AIU, IDCU and DNU-S applications. In general, the DSL to be tested is identified using the office equipment number (OEN) or an associated subscriber directory number (DN).

Formats 1 through 4 are for DSL tests on any LU using the subscriber DN.

Format 5 is for ISLU DSL testing using the subscriber DN.

Formats 6 through 10 are for ISLU DSLs using the line card equipment number (LCEN).

Formats 11 through 14 are for IDCU DSLs using the IDCU line equipment number (ILEN).

Formats 15 through 19 are for ISLU2 DSLs using the line circuit equipment number (LCKEN).
Formats 20 through 23 are for DNU-S DSLs using the integrated digital loop carrier (IDLC) networking line equipment number (INEN).

Formats 24 through 27 are for AIU DSLs using the AIU equipment number (AIUEN).

2. FORMAT

[1] TST:DSL[:AUTO|CS],DN=a[,CH=m][,TEI=n][,CAMP=o][,RTDS1=p][,TERM=q][,INT=r][,DUR=s][,MDUR=t][,RATE=u][,BLKSZ=v][,ABER=w][,MODE=x][,V][,ROP][,UCL=y];

[2] TST:DSL:PS,DN=a[,CH=m][,TEI=n][,CAMP=o][,RTDS1=p][,TERM=q][,INT=r][,DUR=s][,MDUR=t][,MODE=x][,V][,ROP][,UCL=y];

[3] TST:DSL:OSPS,DN=a[,CAMP=o][,RTDS1=p][,ROP][,UCL=y];

[4] TST:DSL:CRCL=[l],DN=a[,DUR=s][,CAMP=o][,V][,ROP][,UCL=y];

[5] TST:DSL:MSMTCH,DN=a[,CAMP=o][,ROP][,UCL=y];

[6] TST:DSL[:AUTO|CS],LCEN=b-c-d-i[,CH=m][,TEI=n][,CAMP=o][,RTDS1=p][,TERM=q][,INT=r][,DUR=s][,MDUR=t][,RATE=u][,BLKSZ=v][,ABER=w][,MODE=x][,V][,ROP][,UCL=y];

[7] TST:DSL:PS,LCEN=b-c-d-i[,CH=m][,TEI=n][,CAMP=o][,TERM=q][,INT=r][,DUR=s][,MDUR=t][,MODE=x][,V][,ROP][,UCL=y];

[8] TST:DSL:OSPS,LCEN=b-c-d-i[,CAMP=o][,ROP][,UCL=y];

[9] TST:DSL:CRCL,LCEN=b-c-d-i[,DUR=s][,CAMP=o][,V][,ROP][,UCL=y];

[10] TST:DSL:MSMTCH,LCEN=b-c-d-i[,CAMP=o][,ROP][,UCL=y];

[11] TST:DSL[:AUTO|CS],ILEN=b-e-g-k[,CH=m][,TEI=n][,CAMP=o][,RTDS1=p][,TERM=q][,INT=r][,DUR=s][,MDUR=t][,RATE=u][,BLKSZ=v][,ABER=w][,MODE=x][,V][,ROP][,UCL=y];

[12] TST:DSL:PS,ILEN=b-e-g-k[,CH=m][,TEI=n][,CAMP=o][,RTDS1=p][,TERM=q][,INT=r][,DUR=s][,MDUR=t][,MODE=x][,V][,ROP][,UCL=y];

[13] TST:DSL:OSPS,ILEN=b-e-g-k[,CAMP=o][,RTDS1=p][,ROP][,UCL=y];

[14] TST:DSL:CRCL=[l],ILEN=b-e-g-k[,DUR=s][,CAMP=o][,ROP][,UCL=y];

[15] TST:DSL[:AUTO|CS],LCKEN=b-c-d-h-j[,CH=m][,TEI=n][,CAMP=o][,TERM=q][,INT=r][,DUR=s][,MDUR=t][,RATE=u][,BLKSZ=v][,ABER=w][,MODE=x][,V][,ROP][,UCL=y];

[16] TST:DSL:PS,LCKEN=b-c-d-h-j[,CH=m][,TEI=n][,CAMP=o][,TERM=q][,INT=r][,DUR=s][,MDUR=t][,MODE=x][,V][,ROP][,UCL=y];

[17] TST:DSL:OSPS,LCKEN=b-c-d-h-j[,CAMP=o][,ROP][,UCL=y];

[18] TST:DSL:CRCL,LCKEN=b-c-d-h-j[,DUR=s][,CAMP=o][,V][,ROP][,UCL=y];

[19] TST:DSL:MSMTCH,LCKEN=b-c-d-h-j[,CAMP=o][,ROP][,UCL=y];
3. EXPLANATION OF MESSAGE

Note: Refer to the Acronym section of the Input Messages manual for the full expansion of acronyms shown in the format.

AUTO

= Perform LPBK testing on the specified or defaulted DSL channels, automatically (AUTO) selecting the test type in accordance with the basic/logical configuration of each channel tested (AUTO is the default test type). Using AUTO test type selection, packet switch (PS) testing is selected for the D-channel and/or any permanent packet B-channel (PPB); otherwise, circuit switched (CS) testing is selected.

If all ISLU ANSI® DSL channels are under CS or PS test, the LPBK point is beyond the LT and layer 1 is found to be down beyond that point, a mismatch test is automatically invoked. In such cases, a "job status" of the form

CRC

= Perform a corrupt performance monitoring (PM) CRC test on the specified ANSI® U-DSL, between the LT and the network termination 1 (NT1). The corrupt CRC test verifies that the PM counters at the LT and CUs can detect and maintain a record of block errors (BE). In addition, if the reporting of PM alerts has been turned on and the associated alerts have not fired for the current period, a PM alert (refer to the REPT:ALE-LEVEL1 output message) is triggered if the CRC test duration (DUR) is long enough to cause a LT PM count threshold to be reached (refer to RC/V View 22.15).

The CRC test can be used to output the PM counts at the LT and optionally the CUs (for verbose requests) by specifying a test duration of zero (refer to the DUR parameter). In this case, no CRC corruption is done.

The CRC test introduces "corrupted" CRC once every superframe of the layer 1 protocol. One BE is generated for each superframe that transmitted downstream (that is, LT toward the NT1) and then back upstream (that is, NT1 toward the LT). For ISLU and AIU DSLs, both the upstream and downstream directions on the U-DSL are tested at the same time. For IDCU DSLs, the direction of testing must be specified (refer to variable 'l'). Test results in the form of PM counts are output for the LT and optionally for each equipped CU if the verbose (V) parameter is specified.
The IDCU and DNU-S CRC test differs from other LUs as required by the RDT standard. For IDCU and DNU-S DSLs, ANSI® CUs cannot be detected by the switch; therefore, PM counts are generated for only the LT. The CRC test for IDCU and DNU-S must run to completion; once started, it cannot be stopped (refer to the STP:TST-DSL input message). The IDCU and DNU-S CRC maximum test duration is 255 seconds (4 minutes, 15 seconds).

The LT current hour PM counts are marked corrupt as a result of CRC testing to indicate that the entire U-DSL (NT1 to LT) cannot be monitored for BEs during or after the CRC test (that is, while the corrupt condition persists). The PM counters are left as they were at the end of the test. This allows a re-read of the PM counts if necessary. The EXC:ALE input message can be used to clear the PM counts if desired; however, the corrupt condition persists until the next PM interval. There is no way to mark the CU PM counts as corrupt.

The CRC test is non-invasive with regards to DSL (2B+D) channel operations and does not cause a loss of customer service.

CS

Perform a CS digital LPBK test on the specified or defaulted DSL channel(s). This test is useful for evaluating the quality of DSL channels supporting circuit-switched data (CSD) or circuit-switched voice (CSV) types of services. This test requires the use of a integrated services test function (ISTF) or global digital services function (GDSF) as the digital test source. One test equipment transmit/receive channel (maximum of 3 per ISTF and 16 per GDSF) must be allocated for each CS DSL channel to be tested. The data rate of the digital bit stream may be specified using the RATE parameter.

The CS test activates the specified (or default) LPBK termination, establishes a digital path between the test equipment channel and the associated DSL channel, and transmits a pseudo random bit stream to be returned at the location of LPBK termination. The incoming bit stream (returning from the LPBK) is checked by the test equipment to derive the bit error rate (BER) and the errored blocks (ERBLK) for output. The success or failure of testing is based on the acceptable bit error rate (ABER), which may be specified on input.

The test equipment is accessed using trunk routing techniques. All associated growth procedures, which include the assignment of logical test ports (LTP), must be completed before the test equipment can be accessed. The number of LTPs that serve a switching module (SM) must always be equal to the number of ISTF and GDSF circuits in that SM. If test equipment circuits are out-of-service (OOS) a like number of LTPs must be OOS. If an imbalance exists, the test equipment is chronically unavailable.

MSMTCH

Perform a mismatch test on the specified ISLU U-DSL to test compatibility between the LT and the first metallic termination (CU or NT1) connected to the LT. The mismatch test is not supported for AIU, IDCU and DNU-S DSLs. All customer service is blocked during mismatch testing.

After verifying database integrity, the mismatch test makes current measurements to determine the resistance at the LT, as connected to the first metallic termination (NT1 or CU), to detect the following abnormal conditions:
- Loop resistance that is too high or low between tip and ring.
- Loop resistance that is too low between tip and ground or ring and ground.
- For AMI U-DSLs, tip and ring reversal at the NT1 (that is, when no CUs are present).

For ISLU ANSI® U-DSLs, the mismatch test marks the LT current hour PM counts as corrupt to indicate that the entire U-DSL (from NT1 to LT) cannot be monitored for BEs during or after the mismatch test (that is, while the corrupt condition persists). There is no way to mark the CU PM counts as corrupt.
OSPS = Perform a voice continuity test on an Operator Services Position Systems (OSPS) DSL supporting directory assistance (DA) or toll assistance (TA) operators. The transmission test function (TTF) or GDSF is used as the analog test source. This test can only be performed on the B1-channel using an external analog termination provided by customer premise equipment (CPE) such as the basic services terminal (BST) or video display terminal (VDT). The termination is provided when the CPE headset is unplugged. The OSPS test duration is fixed at 10 seconds. The OSPS DSL must be OOS before it can be tested (refer to the RMV:LINE message).

PS = Perform a PS digital LPBK test on the specified or defaulted DSL channel(s). This test is used to evaluate the quality of DSL channels supporting permanent packet D-channel (PPD), PPB, or on-demand packet (ODP) types of services. This test uses the logical protocol handler (PH) channel(s) assigned to serve the associated DSL channel(s) to source layer 2 test packets. The transmission rate of test packets is approximately 1 packet per second.

The test activates the specified (or default) LPBK termination, establishes a virtual digital path between the PH channel and the associated DSL channel, and transmits test packets (containing a pseudo random number) to be returned at the location of LPBK termination. The incoming packets are checked by the PH to derive the percentage of successfully transmitted packets (PKTRATE) for output.

The testing status is ATP if 98% to 100% of the transmitted packets are received error-free. A failed status indicates less than 98% of the transmitted packets were received error-free.

Generally, a logical PH channel is always dedicated to serve a D-channel or PPB-channel. One exception is the pseudo BRI D-channel, which has no active PH channel assigned and therefore cannot be tested. For ODP B-channels, up to two logical PH channels may be assigned to serve a single user. In this case, an available PH channel is chosen by software for testing (not user selectable). On DSL channels that support ODP service, both CS and PS tests can be performed (refer to the MODE=USER parameter).

If PS DSL channels are assigned to different logical PHs, the testing of all channels may continue simultaneously; however, if those PH channels are mixed on the same logical PH, the PS tests are done sequentially. This results in an elapsed test time approximately three times the test duration when testing all DSL channels. If the test duration is over 60 seconds, an output message is generated indicating a retest is in progress for each DSL channel encountering a busy PH. Sequential testing is required, as only one PS digital test can be performed per PH (this limit has always existed). The effects may also be observed when testing two different DSLs, both having a PS channel assigned to the same logical PH (which may support 128 channels). The test results indicate a PH resource shortage for the later of the two tests.

A physical PH is logically assigned to serve specific DSL channels. This logical assignment can change automatically during testing. This means that the PH test source can be different when the test completes. A PS test procedure is not preserved in the event of a PH soft or hard switch. If detected, the PH switch terminates testing on the associated channel(s). If a PH switch goes undetected, a time-out for test results occurs. The assigned physical PH is checked on a periodic basis; however, during that period the test duration may elapse or the defective PH can be switched.

ROP = Direct all output to the receive-only printer (ROP).

The ROP parameter frees the invoking terminal (such as, TLWS, MCC) for subsequent work while test results are logged only on the ROP device. This is useful when performing long duration tests in modes that produce multiple output messages.
This parameter provides for the output of testing information which would otherwise not be made available. For CRC test requests, test results for all populated CUs are output. For SECT mode LPBK requests, all intermediate failures are output.

- Generate output in a verbose manner.

a = Directory number that specifies a user of the DSL.

b = Switching module number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

c = ISDN line unit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

d = Line group controller number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

e = IDCU number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

f = DNU-S number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

g = Remote digital terminal number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

h = Line board/pack number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

i = Line card number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

j = Line circuit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

k = RDT channel unit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

l = IDCU or DNU-S CRC test direction. The IDCU and DNU-S CRC test is run in one direction at a time, which is specified as a value to the CRC parameter. The test direction values are not used by other LUs, as the test is always runs in both directions. If the duration specified is zero the test direction values are ignored. Valid value(s):

- **UP**
  - Perform a CRC test using the upstream registers of the LT on the U-DSL, reporting only upstream PM results on output.

- **DWN**
  - Perform a CRC test using the downstream registers of the LT on the U-DSL, reporting only downstream PM results on output.

DEFAULT: If a direction is not specified and the duration specified is greater than 0, the CRC parameter defaults to DWN.

m = DSL channel(s) tested.

This parameter specifies the DSL channel(s) to be tested. The entry of a particular value does not imply that call processing continues for untested DSL channels; if hardware limitations require the
control of other DSL channels, they are also blocked for testing. If ALL DSL channels are to be tested and the request is inappropriate for one or more channels, testing may continue, requiring fewer DSL channels to be blocked for testing. Output messages are generated for all channels requested for testing. Valid value(s):

B      = Test using any idle B-channel. If both B-channels are busy, camp-on both channels, using the channel that becomes free first. The UCL=PRMT parameter is not allowed when any B-channel is specified.

B1     = Test on the B1-channel.

B2     = Test on the B2-channel.

D      = Test on the D-channel. The D-channel provides in-band signaling required to support CS B-channels; therefore, when the D-channel is tested, the test procedure also controls any CS B-channels. However, PPB-channels may be free (that is, hardware permitting), as signaling is done in-band.

BB     = Test on both B-channels.

ALL    = Test on all assigned DSL channels.

DEFAULT: Except for CS testing, the CH parameter defaults to ALL. For CS testing, the default is BB.

n      = Terminal endpoint identifier. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

The TEI can be used to identify specific CPE for the purpose of performing a CPE LPBK or identifying a specific subscriber for USER mode testing. The DN or OEN must be used in conjunction with a TEI to properly identify the associated SM and LT. Use the OP:CPE input message to obtain active TEI.

A TEI must be specified to do a CPE LPBK when the CPE is not bound to a specific user. In this case, the OEN or an unbound DN must be used to identify the LT. If a DN is used, the service order profile (SOP) associated with that user is implied to be bound to the CPE assigned the TEI. This allows the LPBK testing of an unbound users ODP service using any unbound CPE. If a bound DN is used, the TEI is ignored on input and the TEI associated with the users CPE is always output.

To perform USER mode testing, a unique SOP must always be identified. The SOP can be identified using a DN, or the OEN with the TEI assigned to a bound CPE.

o      = Camp-on (CAMP) time (15-3600, default 300).

The test camps-on for the time specified (in seconds), waiting for the required resources to become available, at which time testing may proceed. If the resources do not become available in the specified time, the test is aborted. No camp-on occurs if UCL=PRMT is specified.

p      = Remote terminal digital signal level 1 (DS1) (RTDS1=1-28).

The RTDS1 specifies the DS1 carrier transmission path between the IDCU and the RDT that is used during digital testing. If the specified RTDS1 is unavailable, the test is aborted. The RTDS1 is only selectable when performing CS or ODP tests on CS channels. The RTDS1 is permanently assigned for D-channels and PPB-channels. The protected (that is, spare) DS1 cannot be specified for testing. The specified RTDS1 can be lost if the digital path must be reestablished for retest or multi-section tests (refer to the MODE parameter).

q      = Termination.
For digital LPBK testing, the termination is the point at which the test data is returned to the test equipment for evaluation. A LPBK termination may be provided using the built in capabilities of transmission equipment dedicated to serve the DSL or by breaking the LOOP|PATH manually, applying suitable test equipment and specifying TERM=EXT.

A LPBK termination may be placed at various locations within the digital path or loop to facilitate the sectionalization of transmission problems. The failure of a digital LPBK test implicates the transmission media as well as the transmission equipment providing the LPBK termination. Alternatively, the success of a LPBK test does not absolve the transmission equipment providing that LPBK from failure, as the fault may lie within that unit beyond the associated LPBK circuitry. In addition, particular transmission equipment may perform its primary function flawlessly; however, the LPBK function within that unit can be faulty or simply unimplemented.

The customer is denied service during testing. The extent of service blockage depends on the channels under test and the LPBK chosen. Any attempt to test the D-channel blocks all CSV/CSD/ODP calls, as the D-channel is used for all call setup procedures. The customer impact may be reduced by requesting interruptible tests (refer to the INT parameter). Valid value(s):

- **CPE**
  - The LPBK termination is provided within the CPE connected to the DSL.
  - Specifically, the selected ISDN telephone or data module CPE provides the LPBK termination(s) for digital testing. For U-DSLs, the use of this termination allows evaluation of the subscribers on premise wiring/equipment. If an NT1 LPBK test passes and a CPE LPBK fails, the fault must lie beyond the LPBK termination within the NT1. For T-DSLs the fault would lie beyond the LT LPBK termination.

  - The CPE may also be specified using a bound DN, or the OEN with an assigned TEI. This implies binding between the SOP of the DN and the selected CPE. The CPE can provide a LPBK on one or both B-channels. The CPE cannot provide a LPBK on the D-channel.

  - Only CPEs that support the maintenance information message (MIM) protocol, as described in the Basic Rate Interface Specification manual, can activate this LPBK termination. CPE vendors other than Lucent Technologies are not required to support this LPBK termination. The standard interface CPE does not support MIM or provide LPBK capability. Attempts to LPBK incompatible CPEs can result in failures to establish or remove LPBK terminations.

  - It should be noted, that the CPE using feature package one (FP1) firmware does not support CPE LPBKs, while the CPE FP firmware and later fully supports the LPBK. Examples of compatible CPE include the AT&T 6508, 7505, 7506, 7507 and 8503 telephones and the 7500 data module.

- **CUx**
  - The LPBK termination is provided within the specified DSL CU. The CU LPBK terminations are only supported on ISLU and AIU DSLs (CUs are not detected and associated LPBKs are not attempted, on DSLs supported by other LUs). The three types of CUs supported are the AMI, TBRITE AMI and the ANSI® CUs.

  - The AMI U-DSL supports up to four CUs (x=1-4). The presence of AMI CUs cannot be determined by the switch; therefore, a LPBK request is performed as if every AMI DSL had CUs. If CUs are not populated, LPBK testing always fails indicating a “FAULT IN LOOP|PATH”, as the test data is not returned to the test equipment.

  - The ANSI® U-DSL supports up to six channel units (x=1-6) and can respond to queries from the switch; therefore, the number of populated CUs is determined prior to testing and only those present are tested.
ANSI® CUs support the LPBK of individual B-channels or all DSL channels simultaneously. For AMI CUs, individual B-channel LPBKs are not possible and the D-channel LPBK is not supported for ANSI® or AMI; therefore, to perform associated requests, ownership of all DSL channels is obtained and all DSL channels are placed in LPBK. This method denies service to all users during the CU test. Only the ANSI® CU supports concurrent B-channel LPBKs using the CH=BB value. However, because all DSL channels are unlooped with one request, only one test procedure may LPBK a given CU at a time. The TBRITE AMI CU differs from the AMI CU in that the NT1 is built into the CU. The TBRITE AMI unit provides both CU and NT1 LPBK capability.

EXT
= A test may be performed without a LPBK termination for the purpose of applying a termination "manually" (by the user) external (EXT) to the switch. If a LPBK termination is not "manually" applied, the test fails because test data is not returned to the test equipment. An EXT LPBK can be provided by suitable test equipment connected along the loop or by setting compatible CPE in LPBK mode.

The DSL port to be tested should be manually taken OOS prior to testing (For example, refer to the RMV:LINE and RMV:DATALINK input messages), as the LPBK must be applied prior to invoking the test. This eliminates the possibility of producing protocol errors and associated records when looping back PS channels.

LT | LC
= The LPBK termination is provided within the ISLU LC, the AIU LCXK or the IDCU or DNUS RDT CU. The three LT types supported are T-DSLs, ANSI® U-DSLs, and AMI U-DSLs. The T-DSL LT attaches directly to the (T-interface) CPE. The U-DSL LT uses an (on premise) NT1 to provide a T-interface for the CPE and may possibly employ CUs to extend the U-interface.

The LT supports the LPBK of individual DSL channels or all DSL channels simultaneously and DSL channels may be selectively unlooped. This allows concurrent test procedures to set and remove LPBKs independently. Requests to LPBK the LT on the D-channel result in blocking calls on CS B-channels.

NT1
= The LPBK termination is provided within the NT1. The NT1 termination is supported on ANSI® and AMI U-DSLs. The NT1 termination does not exist for T-DSLs. The NT1 functionality may be incorporated in other equipment (such as, the T-BRITE CU and the 6508 CPE), however, the actual implementation should be transparent.

Both the ANSI® and AMI NT1 support the LPBK of individual B-channels or all DSL channels simultaneously. Only the ANSI® NT1 allows concurrent B-channel LPBKs using the CH=BB value. Since the D-channel and AMI CH=BB LPBKs are not supported, ownership of all DSL channels is obtained and all DSL channels are placed in LPBK to support these requests. This method denies service to all users during the NT1 test. Also, because all DSL channels are unlooped with one request, only one test procedure may LPBK a given NT1 at a time.

PH
= The LPBK termination is provided on the PH channel that supports the associated DSL channel. The type of PH hardware (such as, PH2 or PH3) is transparent to the LPBK request.

This LPBK provides the ability to diagnose the PH channel (that is, the test equipment) serving a particular DSL channel. An ODP user can be served by two PH channels. In this case, a free PH channel is automatically selected to provide the LPBK termination (the PH channel that provides the LPBK is not user selectable). A PH LPBK may be performed on one or all DSL channels simultaneously; however, only one PH LPBK test may be performed per PH (refer
to the PS test type for limitations). Requesting a PH LPBK test of the D-channel, always blocks call processing on CS B-channels.

DEFAULT: The LT is the default for T-DSLs and the NT1 is the default for U-DSLs.

r = Customer interrupt (INT) allowed.

This is the type of customer service request allowed to interrupt the testing procedure. This parameter allows the user to minimize the customer impact associated with performing a LPBK test. Because all LPBK tests block customer service on one or more DSL channels, the INT parameter should be considered whenever performing routine or preventive maintenance during periods of high or moderate customer usage. When a test is aborted, test results up to that point and the elapsed test time are delivered to the user. The INT parameter only applies to LPBK tests, as other test types are of either a fixed, short duration or are non-invasive with respect to the customer. To assure the collection of a minimum test data set, a minimum test duration may be specified (refer to the MDUR parameter).

In all cases, only customer CSV or CSD requests to originate calls on or terminate calls to the DSL under test can cause the test procedure to be aborted. That is, only customer service requests that require the use of a CS DSL channel that is under test, cause the test to be aborted. Test procedures on permanent packet DSL channels cannot be aborted for incoming packets.

Whenever the D-channel is looped back, the CPEs are effectively cut-off from the switch and customer originations from the CPE cannot be detected by the switch. The D-channel can be placed in LPBK even if that channel is not tested. For example, a request to test one or more B-channels using an AMI CU termination requires the LPBK of ALL DSL channels (refer to the TERM=CU parameter). Valid value(s):

- BOTH = Call originations from or terminations to the DSL under test cause the test procedure to be aborted.
- ORIG = Call originations from the DSL under test cause the test procedure to be aborted.
- TERM = Call terminations to the DSL under test cause the test procedure to be aborted.

DEFAULT: By default, the customer is denied service on the DSL channel(s) required for testing, for the full test duration.

s = Duration (DUR) of test (0-3600, default 20).

The duration is the length of time (in seconds) that the test source (such as, ISTF, GDSF or PH) sends test data. In general, the test duration does not include the setup time, camp-on time, or idling time associated with any test request. The elapsed time taken for the test request to complete can be significantly greater than the actual test duration (refer to the MODE parameter).

LPBK testing for CS, PS, and AUTO tests accepts durations of 1 to 3600 seconds, since a value of zero is meaningless.

The CRC test accepts a duration of zero to request a read only of PM counts (no CRC corruption is done). This is useful for obtaining the current PM counts or obtaining the counts associated with a CRC test that has just finished.

The IDCU CRC maximum test duration is 255 seconds (4 minutes, 15 seconds)

For ISLU and AIU CRC testing, the test duration that is output is greater than the requested
duration. This is due to internal delays associated with starting and stopping the accumulation of CRC results. The actual time the test runs is printed on output.

\[ t \] = Minimum test duration (MDUR) (1-3600).

The test procedure is not aborted for customer service requests (refer to the INT parameter) until the minimum test duration, in seconds, has elapsed. Use of this parameter assures the collection of test data for at least the MDUR specified. That is, the customer is denied service on the associated channel(s) until MDUR elapses.

If MDUR is specified in the absence of the INT parameter, the test request is implied to be interruptible when the MDUR has elapsed. For requests that require control of the D-channel, testing is interruptible for only terminations when the MDUR elapses. In all other cases, testing is interruptible for both originations and terminations.

\[ u \] = Data rate.

This is rate of the digital bit stream to be sourced by the ISTF|GDSF during CS LPBK testing. The configuration of SM umbilicals must be consistent with the data rate chosen. The test equipment may be located in any SM; therefore, the test port and the port under test can be located in the same or different SMs (which may be connected by an umbilical). Valid value(s):

- AUTO = Automatically select the effective data rate (default).
- 64CLR = 64000 bits/sec clear channel (that is, zero-octet allowed).
- 64RES = 64000 bits/sec restricted (that is, zero-octet suppressed).
- 56KPS = 56000 bits/sec.

DEFAULT: By default, the effective data rate is determined by automatically attempting to synchronize for 6 seconds at each valid data rate. AUTO data rate selection is complete and testing begins when synchronization is first achieved, trying first at 64CLR, then 64RES and then at 56KPS. If synchronization cannot be achieved, testing will fail indicating "FAULT IN LOOP OR PATH" at the 56KPS data rate.

In general, SM umbilicals capable of supporting the 64CLR data rate support all other data rates; however, a lower data rate umbilical is incompatible with digital testing performed at a higher data rate. In the later case, digital testing fails consistently with "FAULT IN LOOP OR PATH". An ISTF|GDSF should never be configured in a SM that is connected via 56KPS|64RES umbilical. This would effectively restrict LPBK testing in ALL SMs to that data rate. It makes no difference if there is other test equipment available, as the lower rate equipment is selected randomly. It also makes no difference if there is a second 64CLR umbilical added, as the wrong umbilical is assigned randomly.

The data rate must also be matched with the facility being tested. If a customer complaint is associated with a service that is subscribed at 64CLR, that data rate must be explicitly provided in the test request (by default, the effective data rate is used and the associated problem may not be seen at that rate). In addition, if digital testing is performed as part of preventive maintenance, the 64CLR data rate must be specified to evaluate DSLs at the highest rate possible.

\[ v \] = Block-size (BLKSZ) (1-64000).

For CS LPBK testing, the digital-bit-stream is partitioned into segments called blocks, specified using the BLKSZ parameter. The BLKSZ is the number of bits in each block. The BLKSZ is used by the ISTF|GDSF to calculate the total ERBLK for output. The ERBLK result characterizes the accumulation of bit-errors. Varying the BLKSZ allows the distribution of errors over time to be better understood. If BLKSZ is not specified, the default is chosen based on the data rate used. Valid
default value(s):
56000 = For RATE=56KPS
64000 = For RATE=64RES or RATE=64CLR

w = Acceptable bit error rate (0-9, default 6).

The ABER is used by the ISTF/GDSF to determine when a CS LPBK test request is all test pass (ATP), passes degraded (DGR), or fails (FAILED). The ABER does not modify the pass/fail criteria for PS LPBK tests.

The ABER defines the failing BER as a negative power of ten. That is, an ABER of 6 defines the failing BER as 1 or more bits in error, for every 1,000,000 bits transmitted.

x = Mode of testing. The mode parameter provides a mechanism through which additional attributes may be attached to a specific test request. Valid value(s):

SNGL = In single section mode, the test request is stopped after performing one test as specified and generating the associated result output. This is the default mode of testing.

SECT = The sectionalization mode of testing is used to automatically isolate the operative/faulty portion of a DSLs digital path or transmission loop. This is accomplished by dividing the path and loop into a finite number of testable sections that are delineated by the available LPBK terminations. The maximum number of test sections possible is 10 for ANSI® U-DSLs, 8 for AMI U-DSLs and 3 for T-DSLs.

Testing begins with the section of the LOOP|PATH that ends at the LPBK termination selected. If that test produces a passing result, SECT mode testing is complete; however, in the event of failure, testing automatically continues with the next testable section, by changing the LPBK termination. The ABER parameter can be used to change the criteria for ending sectionalization testing. The selection of subsequent test sections effectively shortens the LOOP|PATH and causes diagnosis to approach the test source itself (such as, PH). The testing procedure continues in this manner, until a passing result is obtained or all possible sections (that is, terminations) have been exhausted.

Whether the SECT mode test terminates successfully or with failure, output messages always indicate the section of the LOOP|PATH affected by displaying the current LPBK termination. SECT mode testing can proceed to the next section for failures that are not transmission oriented (such as, layer 1 down beyond the LT results in the test proceeding at the LT).

The default output procedure generates only one result message for each DSL channel tested. This is a concise output strategy; however, all failures encountered at other test sections are not output unless the V parameter is specified.

SEQ = The sequence (SEQ) test mode performs a series of digital LPBK tests that begin at the LPBK termination specified and continue until all possible terminations between that point and the test source have been used. Results are unconditionally generated subsequent to performing each test. This test verifies the LPBK functionality within each associated unit. That is, the equipment may perform its primary function flawlessly; however, the LPBK function within that unit can be faulty.

USER = The scope of testing is limited to the DSL channel(s) supporting USER subscribed communication service(s) associated with a specific DN. DSL channel(s) associated with a users PPD, ODP, PPB, CSV or CSD service(s) are
considered for testing (for DSL channels on which service is not assigned, testing is not performed). This mode of testing verifies office-dependent data (ODD) as well as the subscribed service.

The DSL user must be identified by subscriber DN. Either the DN is given directly, or it is derived from the OEN and a TEI that is assigned to a bound CPE. Only the communication services assigned to that DN are tested.

The actual test performed is always a PS or CS digital LPBK test. The PS test is used to evaluate PPD, PPB or ODP services. The CS test is used to evaluate CSV or CSD services. If the test type is not specified (that is, AUTO), it is selected based upon the service(s) that can be connected to each DSL channel tested. The scope of testing can be limited to specific services by specifying the associated test type (such as, CS). The scope of testing may be further limited by specifying a specific DSL channel (such as, CH=B1).

Various combinations of DSL services cannot be tested simultaneously; therefore, testing may be performed in two sections. For example, if ODP and CSV service are subscribed to the same DN, a CS B1-channel must undergo CS and PS testing. In this case, the PS test is performed in the first section and the test type is changed to CS for the second section.

The reason for testing specific DSL channel(s) can be derived from output. If a PS test is performed on the D-channel or a B-channel, the subscribed service is respectively, PPD or PPB. If an ODP switched (ODPS) test is performed, ODP service is subscribed. If a CS test is performed, the user typically subscribes to CSV and/or CSD services.

In general, all modes of testing are subject to a two-try retest in the event that specific testing resources are unavailable. For example, subsequent to obtaining control of associated DSL channels, test equipment may be unavailable. Rather than aborting the test request on all channels, testing continues on DSL channels having test equipment. After testing completes on those channels, the channel(s) that experienced a resource problem are tried again. If the test equipment has become available, the test proceeds to completion and test results for all channels are output. This results in extending the elapsed test time up to three times the test duration for the affected test section. If the test duration is greater than one minute, an intermediate status message is output to inform the user that a retest is in progress on the indicated channel(s).

When a retest or a new test section is performed, the test equipment and associated digital path(s) from the previous test are not reserved. That is, for each test section, control of the test equipment is regained and the digital path is reestablished. This can result in unexpected failures, when the test equipment or a digital path component (such as, RTDS1) becomes unavailable. For each CS test section, a different ISTF/GDSF channel or an ISTF/GDSF in a different SM may be used (refer to the RATE parameter). For each ODPS test section, a different PH channel may be used (that is, if the user is served by two PH channels).

Perform requested action unconditionally. This parameter specifies an unconditional action that should be performed as part of the test request. Use of this parameter terminates active customer calls.

Valid value(s):

PRMT

= In general, if any of the DSL channels or resources required for testing are busy, the associated call or maintenance procedure is prematurely terminated. The only exceptions are those procedures that execute with a high priority. In those cases, a
PRMT request fails indicating the "port is still busy". Camp-on does not occur for PRMT requests.

The PRMT request is denied in specific cases. Attempts to test any B-channel are not permitted with the PRMT parameter, as the switch does not arbitrate which of possibly two B-channel procedures to terminate. Prior to testing DSLs supporting a OSPS facility, application processor (AP) or data link (DL), the resident procedure supporting operations must be disabled. This is accomplished by placing the DSL in an OOS state. The PRMT parameter cannot be used to terminate that procedure.

NTM = NT1 or CU "test mode" indications should be ignored ("test mode" indicates the CPE has control of the NT1 or CU LPBKs). Any test results obtained in "test mode" may be corrupt; however, this may be useful when the "test mode" indication is believed to be in error (refer to the EQCU=TESTx parameter in the TST:DSL output message).

4. SYSTEM RESPONSE

PF = Printout follows. If the test request is incomplete or invalid, a single TST:DSL output message is generated indicating the failure.

If the test request is complete, the test procedure attempts to seize control of all DSL resources required for testing. If UCL=PRMT was specified and all required DSL resources cannot be obtained immediately, the output message indicates the "port is still busy". The same output message is generated, when the camp-on period elapses.

After obtaining DSL resource ownership the test procedure outputs a "testing begins" message. The test procedure then attempts to obtain the necessary test equipment and complete the test request.

The number of TST:DSL output messages generated varies in accordance with the number of DSL channels tested and the MODE of testing selected. In general, an output message is generated for each DSL channel tested; however, if the same failure occurs on all channels tested, one output message may be output for all channels. Primarily, the test duration determines the elapsed time between output messages for multi-section tests. A unique request number is given to each test procedure and is given in the resulting output messages. When a TST:DSL request is complete, an end-of-transmission (EOT) flag appears on output.

RL = Retry later. The request has been denied due to unavailable system resources.

5. REFERENCES

Input Message(s):

ALW:ALE
ALW:DEBUG
EXC:ALE
INH:ALE
INH:DEBUG
OP:CONV
OP:CPE
OP:JOBSTATUS
OP:STATUS
RMV:LINE
RMV: DATALINK
STP: TST-DSL

Output Message(s):

EXC: ALE
OP: CPE
TST: DSL

RC/V View(s):

22.15 (THRESHOLD GROUP).
TST:E911

Software Release: 5E14 and later  
Command Group: CCS 
Application: 5 
Type: Input 

1. PURPOSE

Requests that an enhanced 911 (E911) test query be sent to the enhanced 911 service adjunct (ESA) to retrieve an emergency service number (ESN).

2. FORMAT

TST:E911=a[,VERBOSE][,{ALT|SITE=b}];

3. EXPLANATION OF MESSAGE

ALT = The alternate ESA (listed in RC/V View 8.1 field “SEC E911 APID”) is queried.  

Note: The ALT and SITE optional parameters can not both be specified on the same input message. The ALT optional parameter will result in a error message if the DUAL ESA feature is not licensed, enabled or if the alternate site has not been specified in the RC/V View.

VERBOSE = The routing information associated with the retrieved ESN is also requested.

a = Ten-digit billing number or calling party number to be queried.

b = The site ID of an alternate ESA to be queried. If this option is not specified (which is the common situation), the site ID is obtained from the GLE911APID or GLE911SEC office parameter. If the dual ESA enhancements feature is not enabled, GLE911APID is used. If the dual ESA enhancements feature is enabled, the current active ESA APID, which may be either GLE911APID or GL911SEC, is used.

Note: The ALT and SITE optional parameters can not both be specified on the same input message.

4. SYSTEM RESPONSE

NG = No good. May also include:

- DUAL ESA FEATURE NOT ALLOWED = The test message can not be sent. Dual ESA is a licensed feature, that must be purchased before it can be used. Please contact your Account Representative for information on purchasing and then authorizing the dual ESA feature.
- DUAL ESA NOT CONFIGURED = The test message can not be sent. The alternate (secondary) ESA site ID must be entered in RC/V View 24.7.
- E911 FEATURE NOT ALLOWED = The test message can not be sent. E911 is a licensed feature, that must be purchased before it can be used. Please contact your Account Representative for information on purchasing and then authorizing the dual ESA feature.
- ESA NOT CONFIGURED = The test message can not be sent. The E911 office option
GLE911OP does not support an ESA.

- FAILED TO SEND QUERY MESSAGE = The attempt to send the query message to the CMP failed.
- INVALID INPUT IN FIELD 'a' = There is either an invalid character in variable 'a', or an incorrect number of digits was input. There must be 10 digits input at 'a'.
- INVALID INPUT IN FIELD 'b' = There is either an invalid character in variable 'b', or the entry is out of the range (1-255).
- SITE ID DOES NOT EXIST = The SITE ID input in variable 'b' does not exist.
- SYSTEM ERROR = An internal system error has occurred.

PF = Printout follows. Followed by a TST:E911 output message.

RL = Retry later. May also include:
- CMP UNAVAILABLE = The test message can not be sent. The communications module processor (CMP) is available.
- OTHER REQUEST IN PROGRESS = An E911 test query or an ESA request is currently in progress.

5. REFERENCES

Output Message(s):

TST:E911

Other Manual(s):

235-190-115 Local and Toll System Features

RC/V View(s):

8.1 (OFFICE PARAMETERS)
8.22 (SECURED FEATURE UPGRADE)
24.7 (DSL AP COMMUNICATIONS DATA)
TST:FAC

Software Release: 5E14 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE
Requests a test (connectivity exercise) of the connection of a remote switching module (RSM) facility (FAC).

A FAC can be a host-remote facility between a host switching module (HSM) and an RSM, or a remote facility between two RSMs. The test does not interfere with stable calls, and may be run on an in-service or out of service (OOS) facility. The request is not honored if a carrier group alarm is present on the RDFI or CDFI.

2. FORMAT

TST:FAC=a-b-c-d;

3. EXPLANATION OF MESSAGE

a = Switching module (SM) number.

b = Digital line and trunk unit (DLTU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

c = RSM digital facilities interface (RDFI) or inter-RSM communication link digital facilities interface (CDFI) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

d = FAC number. The FAC number is the T1 facility number on a RDFI or CDFI. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

NG = No good. The message syntax is valid, but the request conflicts with current system or equipment status. May also include:
   - NOT STARTED UNIT IN GROWTH STATE
   - SM DOES NOT EXIST
   - SM UNEQUIPPED
   - UNIT DOES NOT EXIST

PF = Printout follows. A TST:FAC output message follows in response to the request.

RL = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

Input Message(s):
RMV:FAC

Output Message(s):
TST: FAC

Output Appendix(es):
APP: RANGES

Other Manual(s):
235-105-210  Routine Operations and Maintenance
235-105-220  Corrective Maintenance
TST:GRC

Software Release: 5E14 and later
Command Group: RCV
Application: 5
Type: Input

1. PURPOSE

Requests that a global recent change (GRC) test update job be run to verify that the correct updates will be applied. If the updates are not desired at this time, then when the GRC test update job is completed, backout the updates using the SCHED:GRC input message. After the backout is completed, then reschedule the GRC update job for its original time and date using the SCHED:GRC input message.

2. FORMAT

[1] TST:GRC,NAME=a[,SECT=b],TN=c[-d];
[2] TST:GRC,NAME=a[,SECT=b],MLHG=e[-f][,MEMB=g[-h]];

3. EXPLANATION OF MESSAGE

a = GRC name (up to 10 characters).
b = GRC section number.
c = First telephone number (TN) in the range of lines to be tested.
d = Last TN in range of lines to be tested.
e = First multi-line hunt group (MLHG) number in range to be tested.
f = Last MLHG in range to be tested.
g = First MLHG member number to be tested.
h = Last MLHG member number to be tested.

4. SYSTEM RESPONSE

NG = No good. The request was denied. A GRC:ERROR output message will provide the reason for the failure.
PF = Printout follows. A GRC:STATUS output message will follow indicating the beginning of the operation.

5. REFERENCES

Input Message(s):

- REPT:GRC
- RMV:GRC
- SCHED:GRC
Output Message(s):

GRC: ERROR
GRC: STATUS

Other Manual(s):

Where 'x' is the release-specific version of the document.
235-070-100 Administration and Engineering Guidelines
235-118-251 Recent Change Procedures
235-118-25x Recent Change Reference
TST:GRID

Software Release: 5E14 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE
Requests the fabric exerciser to be run on a line unit grid.

2. FORMAT
TST:GRID=a-b-c[,]UCL[,]RAW[,]AUD[,]PH={d[,]e}[,]TLP;

3. EXPLANATION OF MESSAGE

AUD = Audit the state of the crosspoints. Crosspoints that disagree with the software status will be printed and corrected.

RAW = Report the internal software benchmark number in the event of a failure.

TLP = Report a trouble location procedure (TLP) suspect circuit pack list if there is a failure.

UCL = Execute all tests in the phase(s) requested unconditionally.

a = Switching module (SM) number.

b = Line unit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

c = Grid number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

d = Number of the phase to be run, or the lower limit of a range of phases.

e = Upper limit of a range of phases to be run.

4. SYSTEM RESPONSE

NG = No good. The request has been denied. The message form is valid but the request conflicts with current status.

PF = Printout follows. The request has been received. The TST:GRID output message will follow.

5. REFERENCES

Output Message(s):
TST:GRID

Output Appendix(es):
APP:RANGES
TST:GRIDBD

Software Release: 5E14 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE
Tests a specified gated diode crosspoint half-grid board in a line unit model 2; (LU2) or a line unit model 3; (LU3) by running a fabric exerciser routine.

2. FORMAT
TST:GRIDBD=a-b-c-d[,UCL][,RAW][,TLP][,AUD][:PH={e|e&&f}];

3. EXPLANATION OF MESSAGE

<table>
<thead>
<tr>
<th>CODE</th>
<th>EXPLANATION</th>
</tr>
</thead>
<tbody>
<tr>
<td>AUD</td>
<td>Audit the state of the first and second stage crosspoints and open any crosspoints that were found closed.</td>
</tr>
<tr>
<td>RAW</td>
<td>Print data from raw data test failure.</td>
</tr>
<tr>
<td>TLP</td>
<td>Output a trouble location procedure (TLP) suspect pack list if a failure occurs.</td>
</tr>
<tr>
<td>UCL</td>
<td>Unconditionally execute the test.</td>
</tr>
<tr>
<td>a</td>
<td>Switching module number.</td>
</tr>
<tr>
<td>b</td>
<td>Line unit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.</td>
</tr>
<tr>
<td>c</td>
<td>Grid number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.</td>
</tr>
<tr>
<td>d</td>
<td>Board number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.</td>
</tr>
<tr>
<td>e</td>
<td>The number of the diagnostic phase to be performed or the lower limit of a range of phases.</td>
</tr>
<tr>
<td>f</td>
<td>The upper limit in the range of diagnostic phases to be performed.</td>
</tr>
</tbody>
</table>

4. SYSTEM RESPONSE

<table>
<thead>
<tr>
<th>CODE</th>
<th>EXPLANATION</th>
</tr>
</thead>
<tbody>
<tr>
<td>NG</td>
<td>No good. The request has been denied. The message form is valid, but the request conflicts with current status.</td>
</tr>
<tr>
<td>PF</td>
<td>Printout follows. Followed by a TST:GRIDBD output message.</td>
</tr>
</tbody>
</table>

5. REFERENCES

Input Message(s):
STP: GRIDBD

Output Message(s):
TST: GRIDBD

Output Appendix(es):
APP: RANGES
TST:GSMNET

Software Release: 5E15 and later
Command Group: CCS
Application: 5
Type: Input

1. PURPOSE

Requests status of the CCS message transport (CMT) connectivity between a specified global switching module (GSM) and one/all child non-global switching modules (NGSMs). CMT is the ability to transport CCS messages internally within the switch.

2. FORMAT

TST:GSMNET,[GSM=a],[NGSM=b];

3. EXPLANATION OF MESSAGE

<table>
<thead>
<tr>
<th>a</th>
<th>= GSM number. If no SM number is specified and only one CCS GSM exists in the office, that GSM will be defaulted. If multiple GSMs exist, then the GSM must be specified. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.</th>
</tr>
</thead>
<tbody>
<tr>
<td>b</td>
<td>= Specific NGSM (the default is ALL NGSMs). Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.</td>
</tr>
</tbody>
</table>

4. SYSTEM RESPONSE

| PF  | = The request has been accepted. Followed by the TST:GSMNET output messages.                                                                                                                             |
| NG  | = No good. May also include:                                                                                                           |
|     | - SM # UNEQUIPPED = This response indicates that the input GSM is not an equipped SM. This error is only valid for the input GSM.                                                                                     |
|     | - NOT A GSM = This response indicates that the input GSM is not provisioned as a HOST or ISLAND GSM.                                                                                                        |
|     | - NO GSM PROVISIONED = This response indicates that no GSM was specified, and there are no GSMs provisioned in the office.                                                                               |
|     | - GSM MUST BE SPECIFIED = This response indicates that no GSM was specified, and there is more than one GSM provisioned in the office.                                                             |
|     | - NO NGSM PROVISIONED = This response indicates that no NGSM is provisioned for the identified GSM, which should be a transient condition during a growth/degrowth sequence. |
|     | - INVALID NGSM = This response indicates that the NGSM specified to restrict output is not served by the input GSM.                                                                                  |
|     | - TST GSMNET IN PROGRESS = This response indicates that another TST:GSMNET request is underway and this request will not be processed.                                                            |

5. REFERENCES

Output Message(s):
TST:ICCV

Software Release: 5E14 and later
Command Group: CCS
Application: 5
Type: Input

1. PURPOSE

Requests that an international credit card validation (ICCV) Common Channel Signaling System 7 (CCS7) transaction capabilities application part (TCAP) test query be sent to a foreign database to verify its operation.

2. FORMAT

TST:ICCV=a-b-c,TTYP=d,OPCD=e[{CLD|ICLD}=f];

3. EXPLANATION OF MESSAGE

a  = Issuer identification number of the telecommunications calling card (89C) number to be queried. This field will be 2-7 digits in length (enter the full card number).

b  = Individual account number of the 89C calling card number to be queried. This includes a check number, if required. This field will be a maximum of 15 digits; however, this field together with the issuer identification number will be 7-19 digits in length.

c  = Personal identification number (PIN). The PIN can be a maximum of 13 digits. If no PIN exists for the card, enter 0.

d  = Translation type. The translation type is used in the TCAP query and indicates to the signaling transfer point (STP) which translation tables should be used to obtain routing information for the query. The translation type is a number from 0 to 255.

e  = Operation code. The operation code specifies which International credit card validation (ICCV) features are active in the switch. Each bit of the 8-bit operation code indicates whether the corresponding ICCV feature is applicable or not in the switch. The bits in order from low to high and their associated features are:

<table>
<thead>
<tr>
<th>Feature</th>
<th>Bit Value</th>
<th>Bit Position</th>
</tr>
</thead>
<tbody>
<tr>
<td>Basic Validation</td>
<td>1</td>
<td>0</td>
</tr>
<tr>
<td>CDM</td>
<td>2</td>
<td>1</td>
</tr>
<tr>
<td>CDBS</td>
<td>4</td>
<td>2</td>
</tr>
<tr>
<td>Call Gapping</td>
<td>8</td>
<td>3</td>
</tr>
<tr>
<td>Geographic Restriction</td>
<td>16</td>
<td>4</td>
</tr>
<tr>
<td>Partial Purchase Limit</td>
<td>32</td>
<td>5</td>
</tr>
<tr>
<td>Full Purchase Limit</td>
<td>64</td>
<td>6</td>
</tr>
<tr>
<td>NOT USED</td>
<td>128</td>
<td>7</td>
</tr>
</tbody>
</table>

The operation code is the sum of the bit values of all applicable ICCV features. For example, if Basic Validation, CDBS, and Geographic Restrictions are applicable, the operation code will have a value of 21, which is the sum of 1, 4, and 16. The valid range is 1-95 because partial purchase limit is not supported. For inward calls, only values 1, 5, 17 and 21 are allowed.

f  = The called number (maximum 15 digits with no prefix). This is either a 10-digit North American numbering plan (NANP) number (that is, NPANXXXXXXX) which will be specified by the tag CLD, a 7- to 15-digit international number will be specified by the tag ICLD (such as, CCXXX...XXX) or 0 indicating no called number. If this entry is omitted, a default value of 0 (no called number) will be used. Note that N11 numbers (such as, 411, 611,911) must be entered as N110000000 in order to distinguish the N11 number from a 3-digit international country code. Note also that
customer-initiated card calls to 411 contain the NPA-555-1212 (with calling number's NPA) as the called number in the query to PTT database. Test queries need NPA-555-1212 explicitly specified if the calling number NPA is known.

4. SYSTEM RESPONSE

NG = No good. Valid value(s):
- CNI NOT AVAILABLE = The test query cannot be sent to the CAS/NCP data base because the common network interface (CNI) or CCS7 links are not available.
- INVALID CARD NUMBER = The input card number must be at least 7 digits, and at most 19 digits in length. The card number is composed of the issuer identification number and the individual account number (including the check number).
- INVALID FORMAT FOR DOMESTIC NUMBER. PLEASE USE NPANXX..XXX = The format for a domestic number must be NPANXX..XXX.
- INVALID FORMAT FOR INTERNATIONAL NUMBER. PLEASE USE CCXXX..XXX = The format for an international number must be CCXXX..XXX without the prefix 01.
- INVALID ISSUER ID NUMBER = The issuer identification number must be at least 2 digits, and at most 7 digits in length. In addition, the first two digits of the card number must be "89".
- INVALID OPERATION CODE = The operation code must be in the range of 1 to 95.
- INVALID PIN = The PIN must be at most 13 digits in length.
- INVALID TRANSLATION TYPE = The translation type must be a number from 0 to 255.

PF = Printout follows. The request has been received. Output message TST ICCV will follow.

RL = Retry later. Valid value(s):
- INTERNAL ERROR = There was a problem reading the RLDS_APP relation (recent change view 8.17 - direct signaling applications), to obtain a subsystem number.
- TEST IN PROGRESS = Another common channel signaling (CCS) test is in progress.

5. REFERENCES

Input Message(s):

EXC:DSTT
TST:BNS
TST:CAS
TST:CAS7
TST:CCRD
TST:INWATS
TST:NCD
TST:RATE

Output Message(s):

EXC:DSTT
TST:BNS
TST:CAS
TST:CAS7
RC/V View(s):

8.17 (DIRECT SIGNALING APPLICATIONS)
TST:INWATS

Software Release: 5E14 and later
Command Group: CCS
Application: 5
Type: Input

1. PURPOSE

Requests that an inward wide area telecommunications service (INWATS) direct signaling query be sent to the INWATS database to verify its operation. This input message does not support NS800 calls. For NS800 test queries, use the TST:NS800 message.

2. FORMAT

TST:INWATS=a,ONPA=b;

3. EXPLANATION OF MESSAGE

Note: Refer to the Acronym section of the Input Messages manual for the full expansion of acronyms shown in the format.

a = INWATS number to be tested. This number must be a string of ten digits which must start with 800, such as 8007654321.

b = Three-digit area code indicating where 800 number is originated.

4. SYSTEM RESPONSE

NG = No good. May also include:
- CNI NOT AVAILABLE = The test message cannot be sent. The common network interface (CNI) is not operational or is in overload. Check CNI status and wait 10 minutes before requesting another test.
- INVALID INPUT FIELD a = There is either an invalid character in field 'a', or an incorrect number of digits. There must be 10 digits input in field 'a'.
- NO REPLY INDEX AVAILABLE = Switch could not send test message because a reply index was not available.
- REPLY RELATION PROBLEM = Switch could not send test message. A reply index was available, but the relation could not be updated.

PF = Printout follows. The request has been received. Followed by the TST:INWATS output message.

RL = Retry later. May also include:
- TEST IN PROGRESS = A common channel signaling (CCS) test is currently in progress.

5. REFERENCES

Input Message(s):

EXC:DSTT
TST:NCD
TST:NS800
Output Message(s):

EXC:DSTT
TST:INNATS
TST:NCD
1. PURPOSE

Requests that a line applications for consumers (LAC) Common Channel Signaling System 7 (CCS7) transaction capabilities application part (TCAP) test query be sent to the number 2 LAC (2LAC)/network control point (NCP) to verify its operation.

2. FORMAT

TST:LAC={BLG=a|BNS=a|CCRD=a-b},SW=c[,TTYP=d]
[,{CLD|ICLD}=e]
[,{CLG|ICLG}=f]
[,STD=g]
[,XCAP=h]
[,XMODE=i]
[,XRATE=j]
[,OLI=k]
[,OLDB=l]
[,OST=m]
[,CTYP=n]
[,CSI=o]
[,RSP=p]
[,NAI=q]
[,LIDB=r]
[,CICEXP=s]

3. EXPLANATION OF MESSAGE

a = Billing number. For sent-paid queries, use the BLG= keyword with a phone number as the billing number. For billed number screening (BNS) queries, use the BNS= keyword with a phone number. For card queries (CCRD), use the CCRD= keyword with a 10-digit calling card account number.

b = Personal identification number (PIN). This is included for card queries only.

c = Switch type. This input request can emulate queries that would normally originate from several switch types. Valid value(s):

4ESS = 4ESS™ switch.

5ETOLL = 5ESS® toll switch.

OSPS = Operator services position system (OSPS) switch.

d = Translation type. This is a number from 0 to 255 which is used by number 2 signal transfer point (2STP) routing tables to determine the destination of the query.

e = Called number. For international numbers, use the ICLD= label with a 4- to 15-digit international number. For North American numbering plan (NANP) numbers use the CLD= label with a 10-digit phone number.

f = Calling number. For international numbers, use the ICLG= label with a 4- to 15-digit international number. For NANP numbers use the CLG= label with a 10-digit phone number.

g = Coding standard. If no value is entered for coding standard, but a data is entered for one or more of transfer capability, transfer mode, or transfer rate, then ITU-TS will be sent in the query. If no values are supplied for any of these fields, then this field will not be sent in the query. Valid value(s):

CCITT = International Telecommunication Union - Telecommunication Standardization Sector (ITU-TS) (formerly CCITT) standard.

INTL = Reserved for other international standards.

NATL = National standard.
h = Transfer capability. If no value is entered for transfer capability, but a data is entered for one or more of coding standard, transfer mode, or transfer rate, then SPEECH will be sent in the query. If no values are supplied for any of these fields, then this field will not be sent in the query. Valid value(s):

- 3K = 3.1 kHz audio.
- 7K = 7 kHz audio.
- 15K = 15 kHz audio.
- DIG = Unrestricted digital information.
- RDIG = Restricted digital information.
- SPEECH = Speech.
- VIDEO = Video.

i = Transfer mode that was input. If no value is entered for transfer mode, but a data is entered for one or more of coding standard, transfer capability, or transfer rate, then CIRCUIT will be sent in the query. If no values are supplied for any of these fields, then this field will not be sent in the query.

- CIRCUIT = Circuit mode.
- PACKET = Packet mode.

j = Transfer rate. If no value is entered for transfer rate, but a data is entered for one or more of coding standard, transfer capability, or transfer mode, then CHSIZE will be sent in the query. If no values are supplied for any of these fields, then this field will not be sent in the query. Valid value(s):

- 64K = 64 Kbit/second.
- 384K = 384 Kbit/second.
- 1500K = 1536 Kbit/second.
- 1900K = 1920 Kbit/second.
- CHSIZE = Transfer rate dictated by the size of the channel.

k = Originating line information (OLI) or automatic number identification (ANI) information digits (II). For OLI data use the OLI= keyword. For II data use the II= keyword. This field is only permitted for CCRD and BNS queries. Valid value(s):

- 800CALL = Translated 800 call.
- AIOD = Automatic input/output dialing (AIOD) listed directory number sent.
- ANIFAIL = ANI failure.
- COIN = Coin line.
- NONCOIN = Identified line (coin or noncoin).
- COINLESS = Coinless, hospital, or inmate call.
- HOTEL = Hotel without room identification.
- IDLINE = Identified line with no special treatment.
- RESTR = Interlata restricted.
- ONI = Operator number identified (multiparty).
- OPER = Operator handled.
- OUTWATS = Outbound wide area transport (OUTWATS) line.
- RCOINLESS = Interlata restricted coinless line.
- RHOTEL = Interlata restricted hotel line.
- TEST = Test call.
- VPN = Virtual private network line.

l = Originating line screening (OLS) information. This is a number from 0 to 999. This field is only
permitted for CCRD and BNS queries.

m = Originating station type (OST). This field is only permitted for CCRD and BNS queries. Valid value(s):
ACQS = Automatic charge quotation system (ACQS) phone.
ACQSHOTL = ACQS hotel phone.
NAHOTL = Non-ACQS hotel phone.
NCNPUB = Non-coin public phone.
CNPST = Post-pay coin phone.
CNPRE = Pre-pay coin phone.
UNKN = Unknown station type.

n = Call type. This field is required for BNS queries, and is not permitted for CCRD or sent-paid queries. Valid value(s):
COLLECT = BNS collect call.
PAID = BNS sent paid call.
THIRD = BNS bill to third number call.

o = Carrier selection information (CSI). If no CSI value is entered, "UNKNOWN" will be used. Valid value(s):
INPUT = Selected carrier presubscribed and input by calling party.
NOIND = Selected carrier presubscribed and no indication of input by calling party.
NOTINPUT = Selected carrier presubscribed and no input by calling party.
NOTPRE = Selected carrier not presubscribed and input by calling party.
UNKNOWN = No indication.

p = 'Response required' indicator. A value of "YES" indicates that the 2LAC/NCP must always return a reply in response to the test query. A value of "NO" indicates that the 2LAC/NCP must only return a reply for deny and error cases. If no value is entered, a default value of "YES" will be used.

q = 'Network access interrupt (NAI)' indicator. A value of "YES" indicates that the 2LAC/NCP should apply NAI processing to the query. A value of "NO" indicates that NAI processing should not be applied. If no value was input, a default value of "YES" will be used. A value of "NO" is only permitted for CCRD and BNS queries.

r = Line information database (LIDB) indicator. A value of YES indicates that the 2LAC/NCP should forward the calling card or BNS information contained within the query to a LIDB for processing. A value of NO indicates that the query should not be forwarded to a LIDB. If no input was given for CCRD or BNS queries, YES will used. For sent-paid queries, this field must be NO.

s = Carrier expansion indicator. The CICEXP keyword indicates that the switch can accept expanded carrier information. This keyword is only permitted with CCRD or BNS queries.

4. SYSTEM RESPONSE

NG = No good. May also include:
- CICEXP NOT ALLOWED = The carrier expansion indicator is only permitted with CCRD OR BNS queries.
- CLD OR ICLD NUMBER REQUIRED = For sent-paid calls, a NANP or international called number is required.
- **CNI NOT AVAILABLE** = The test query cannot be sent to the 2LAC/NCP database because the common network interface (CNI) or CCS7 links are not available.
- **CTYP NOT ALLOWED** = The call type parameter is not allowed with CCRD or sent-paid queries.
- **CTYP REQUIRED WITH BNS** = The call type parameter is required with BNS queries.
- **FEATURE NOT AVAILABLE** = The requested action failed. The feature required to process the request is not present in the switch or the given module.
- **INVALID BILLING NUMBER** = The billing number must be entered with either the BLG, CCRD, or BNS keywords.
- **INVALID BLG NUMBER** = The billing number must be a 10-digit NANP number.
- **INVALID BNS NUMBER** = The billed number screening number must be a 10-digit NANP number.
- **INVALID CLD NUMBER** = The called number must be a 10-digit NANP number.
- **INVALID CLG NUMBER** = The calling number must be a 10-digit NANP number.
- **INVALID CCRD NUMBER** = The calling card number must be a 10-digit number.
- **INVALID ICLD NUMBER** = The international called number must be a 4- to 15-digit international number.
- **INVALID ICLG NUMBER** = The international calling number must be a 4- to 15-digit international number.
- **INVALID PIN** = The calling card PIN must be a 4-digit number.
- **INVALID TRANSLATION TYPE** = The translation type must be a number between 0 and 255.
- **LIDB MUST BE NO** = The 'LIDB requested' indicator cannot be "YES" for sent-paid queries. Either enter LIDB=NO, or omit the parameter entirely and use the default.
- **NAI MAY BE NO ONLY WITH CCRD OR BNS** = The 'NAI indicator' must be "YES" for sent-paid queries.
- **OLS OUT OF RANGE** = The OLS must be a number within the range of 0 to 999 (inclusive).
- **OLS NOT ALLOWED** = The OLS parameter is not allowed with sent-paid queries.
- **OST ONLY ALLOWED WITH CCRD OR BNS** = The originating station type parameter is not allowed with sent-paid queries.

**PF**
= Printout follows. The request has been received. Followed by the TST:LAC output message.

**RL**
= Retry later. May also include:
- **INTERNAL ERROR** = There was a problem reading the RLDS_APP relation (Recent Change View 8.17), to obtain the subsystem number.
- **TEST IN PROGRESS** = Another common channel signaling (CCS) test is in progress.

5. REFERENCES

Input Message(s):

EXC:DSTT
TST:AT1
TST:BNS
TST:CAS
TST:CCRD
TST:ICCV
TST:INWATS
TST:RATE
Output Message(s):

EXC:DSTT
TST:AT1
TST:BNS
TST:CAS
TST:CAS7
TST:CCRD
TST:ICCV
TST:INWATS
TST:LAC
TST:RATE

RC/V View(s):

8.17 (DIRECT SIGNALING APPLICATIONS)
1. PURPOSE

Requests that a specified path be exercised through the line unit path exerciser (LUPEX). The path consists of a line equipment number (LEN), A-link, B-link, and a high level service circuit (HLSC). LUPEX exercises line unit (LU) types LU1, LU2 and LU3.

LUPEX will only run on a path where the A-link and B-link are both in service and idle, or both out of service. LUPEX will only run on lines in the pre-cutover state if the line is marked as a test line. LUPEX will not run on busy lines or lines that are marked in the office-dependent data (ODD) as incompatible equipment, private branch exchange (PBX), or SLC® PBX.

WARNING: While LUPEX is running, the customer whose LEN is seized will be denied service. None of the equipment specified by the input message will be available during the testing. This message should not be executed using HLSCs known to fail diagnostics as it could cause erroneous results. Also, the execution of this input message using the RAW and UCL options with the maximum RPT value may generate in excess of 1000 receive-only printer messages if many failures occur. This may delay more critical output messages.

2. FORMAT

TST:LEN=a-b-c-d-e-f,ALINK=g,BLINK=h-i,HLSC=j-k[,RPT [=l]][,PH=m[&n]][,RAW][,UCL];

3. EXPLANATION OF MESSAGE

Note: Refer to the Acronym section of the Input Messages manual for the full expansion of acronyms shown in the format.

RAW = Produce an output message for every phase failure.
RPT = Repeat.
UCL = Execute all requested phases unconditionally without terminating on the first error before continuing with the next repeat iteration.

a = Switching module number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
b = Line unit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
c = Grid number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
d = Grid board number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
Messages manual.

\( e \) = Grid board switch number. Refer to the APP: RANGES appendix in the Appendixes section of the Input Messages manual.

\( f \) = Grid board switch level number. Refer to the APP: RANGES appendix in the Appendixes section of the Input Messages manual.

\( g \) = Grid board A-link number. Refer to the APP: RANGES appendix in the Appendixes section of the Input Messages manual.

\( h \) = B-link service group number. Refer to the APP: RANGES appendix in the Appendixes section of the Input Messages manual.

\( i \) = Grid board B-link number. Refer to the APP: RANGES appendix in the Appendixes section of the Input Messages manual.

Note: A B-link is equivalent to a channel.

\( j \) = HLSC service group number. Refer to the APP: RANGES appendix in the Appendixes section of the Input Messages manual.

\( k \) = HLSC number. Refer to the APP: RANGES appendix in the Appendixes section of the Input Messages manual.

\( l \) = Number of times the exercise is to be repeated (1-100, default is 1).

\( m \) = Phase number or lower limit for range of phase numbers (1-100, default is 1 through 9). Phases will be executed sequentially.

Note: When a phase range starting above phase 3 is requested, phases 1, 2, and 3 will also run as low-level tests. They will not, however, be reported. Also, phases 94 through 99 establish and hold the path for up to 15 minutes maximum and can not use the repeat option.

<table>
<thead>
<tr>
<th>Phase</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>01</td>
<td>Execute false cross to ground test.</td>
</tr>
<tr>
<td>02</td>
<td>Execute power cross test.</td>
</tr>
<tr>
<td>03</td>
<td>Execute foreign potential test.</td>
</tr>
<tr>
<td>04</td>
<td>Execute scan cut-off stuck open and scan origination/termination tests.</td>
</tr>
<tr>
<td>05</td>
<td>Execute scan cut-off stuck closed test.</td>
</tr>
<tr>
<td>06</td>
<td>Execute first stage crosspoint stuck open test.</td>
</tr>
<tr>
<td>07</td>
<td>Execute first stage crosspoint stuck closed test.</td>
</tr>
<tr>
<td>08</td>
<td>Execute second stage crosspoint stuck open test.</td>
</tr>
<tr>
<td>09</td>
<td>Execute second stage crosspoint stuck closed test.</td>
</tr>
<tr>
<td>10-93</td>
<td>Not used.</td>
</tr>
<tr>
<td>94</td>
<td>Execute reverse channel battery hold path test.</td>
</tr>
<tr>
<td>95</td>
<td>Execute forward channel battery hold path test.</td>
</tr>
<tr>
<td>96</td>
<td>Execute first and second stage crosspoint hold path test.</td>
</tr>
<tr>
<td>97</td>
<td>Execute ring scan crosspoint hold path test.</td>
</tr>
<tr>
<td>98</td>
<td>Execute tip scan crosspoint hold path test.</td>
</tr>
<tr>
<td>99</td>
<td>Execute tip and ring scan crosspoint hold path test.</td>
</tr>
<tr>
<td>100</td>
<td>Not used.</td>
</tr>
</tbody>
</table>

\( n \) = Upper limit of a range of phase numbers (1-100).

**4. SYSTEM RESPONSE**

\( \text{NG} \) = No good. The request has been denied. The message form is valid but the request conflicts with
current status or the unit does not exist.

PF = Printout follows. The request has been received. Followed by the TST:LEN output message.
RL = Retry later. The request has been denied due to unavailable system resources.

5. REFERENCES

Input Message(s):

ABT:TST-LEN
OP:OOS
STP:TST-LEN

Output Message(s):

ABT:TST-LEN
STP:TST-LEN
TST:LEN

Input Appendix(es):

APP : RANGES

Other Manual(s):
235-105-220 Corrective Maintenance
**TST:LINE-ELS**

**Software Release:** 5E14 and later  
**Command Group:** TRKLN  
**Application:** 5  
**Type:** Input

1. **PURPOSE**

Requests electronic loop segregation (ELS) to be run on the specified line or hardware group of lines.

Due to the introduction of Local Number Portability - NPA/NXX feature 5ESS® office will support unique and non-unique office codes (NXX). Multiple NPAs can have same office codes. If the office code is non-unique, then the user has to specify 10 digit DNs including Area Code to correctly specify a DN. But if the office code is unique, then 7 digits are sufficient to correctly represent a DN.

The four formats all run the same tests. Format 1 specifies that the test be run on one line identified by the directory number (DN). Format 2 specifies that the test be run on one member of a multi-line hunt group (MLHG). Format 3 specifies that the test be run on a line or group of lines in a line unit model 1, 2, or 3. Format 4 specifies that the test be run on a line or group of lines in an integrated services line unit (ISLU) or a remote ISLU (RISLU). Format 5 specifies that the test be run on a line or group of lines in an integrated services line unit model 2 (ISLU2) or a remote ISLU2 (RISLU). Format 6 specifies that the test be run on a line or group of lines in an access interface unit (AIU).

2. **FORMAT**

   1. TST:LINE,ELS,DN=a[-n];  
   2. TST:LINE,ELS,MLHG=b-c;  
   3. TST:LINE,ELS,LEN=d-e-f-g[-h][-i]];  
   4. TST:LINE,ELS,LCEN=d-k-l-m;  
   5. TST:LINE,ELS,LCKEN=d-o-l-p[-q];  
   6. TST:LINE,ELS,AIUEN=d-r-s-t;

3. **EXPLANATION OF MESSAGE**

   **DN**  
   = Directory number.

   **LCEN**  
   = Integrated services (line unit) equipment number.

   **LCKEN**  
   = Line circuit equipment number.

   **LEN**  
   = Line equipment number.

   **MLHG**  
   = Multi-line hunt group and member identifier. Multi-line hunt group and member numbers of lines which reside on integrated SLC® remote terminals should not be used.

   **AIUEN**  
   = Access interface unit equipment number.

   **a**  
   = Directory number of the line to be tested. Include NPA for non-unique office code DNs, and NPA not required for unique office code DNs. Directory numbers of lines which reside on integrated SLC® remote terminals should not be used.
b = Hunt group number.
c = Member number.
d = Switching module (SM) number.
e = Line unit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
f = Grid number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
g = Grid pack number (LU1, LU2, LU3). Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual. Valid value(s):
  ALL = If ALL is specified for variable 'g', all 64 lines in the grid will be tested and variables 'h' and 'i' should be omitted.
h = Switch number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual. Valid value(s):
  ALL = If ALL is specified for variable 'h', all 32 lines on the grid board will be tested and variable 'i' should be omitted.
i = Level number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual. Valid value(s):
  ALL = If ALL is specified for variable 'i', the four lines on the specified switch will be tested.
k = Integrated services line unit (ISLU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
l = Line group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
m = Line card number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual. Valid value(s):
  ALL = If ALL is specified for variable 'm', all 31 lines in the line group will be tested.
n = Member number of the MLHG or line time slot bridging (LTSB) line. For MLHG the DN specified should be the main DN for the group and the member number specifies which member of the group will be tested. For LTSB a member number of 1 will test the lead line and a member number of 2 will test the associate line. If no member number is specified, for 1-DN LTSB, the lead line will be tested. If no member number is specified, for 2-DN LTSB, the line associated with the DN entered will be tested.
o = Integrated services line unit-2 (ISLU2) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
p = Line board number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
  ALL = If ALL is specified for variable 'p', all lines on the line group will be tested and variable 'q' should be omitted.
q  = Line circuit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
    ALL       = If ALL is specified for variable 'q', all lines on the line board will be tested.

r  = Access interface unit equipment number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

s  = AIU pack number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

t  = AIU circuit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual. Valid value(s):
    ALL       = If ALL is specified for variable 't', all lines in the pack will be tested.

4. SYSTEM RESPONSE

NG  = No good. The request has been denied. The message form is valid but the request conflicts with current status.

PF  = Printout follows. The request has been received. Output message TST:LINE-ELS will follow.

5. REFERENCES

Input Message(s):

    STP:TST-ELS

Output Message(s):

    TST:LINE-ELS
TST:LNP

Software Release: 5E14 and later
Command Group: CCS
Application: 5
Type: Input

1. PURPOSE

Requests that an Operator Services Position System (OSPS) local number portability (LNP) common channel signaling system 7 (CCS7) transaction capabilities application part (TCAP) test query be sent to the LNP/network control point (NCP) data base to verify its operation.

2. FORMAT

TST:LNP, TTYP=d[, BLG=a][, CLD=b][, CLG=c];

3. EXPLANATION OF MESSAGE

The test query should contain any combination of BLG and/or CLD and/or CLG number(s) as long as at least one of the three numbers is specified.

- a = Billing number. This is a 10-digit North American numbering plan (NANP) number.
- b = Called number. This is a 10-digit North American numbering plan (NANP) number.
- c = Calling number. This is a 10-digit North American numbering plan (NANP) number.
- d = Translation type. The translation type is used in the TCAP query to indicate to the signaling transfer point (STP) which translation tables should be used to obtain routing information for the query. The translation type is a number from 0 to 255.

4. SYSTEM RESPONSE

NG = No good. May also include:
- CNI NOT AVAILABLE = The test query cannot be sent to the LNP/NCP database because the common network interface (CNI) or CCS7 links are not available.
- FEATURE NOT AVAILABLE = The requested action failed. The feature required to process the request is not present in the switch or the given module.
- INVALID BILLING NUMBER (10 DIGITS ONLY) = The billing number must be a 10-digit NANP number.
- INVALID CALLED NUMBER (10 DIGITS ONLY) = The called number must be a 10-digit NANP number.
- INVALID CALLING NUMBER (10 DIGITS ONLY) = The calling number must be a 10-digit NANP number.
- INVALID TRANSLATION TYPE = The translation type must be a number from 0 to 255.
- NO NUMBER IN QUERY = At least one 10 digit NANP number must be specified in the test query.

PF = Printout follows. The request has been received. Output message TST:LNP will follow.

RL = Retry later. May also include:
- INTERNAL ERROR = There was a problem reading the RLDS_APP relation (Recent
Change/Verify View 8.17), to obtain the subsystem number.

- **TEST IN PROGRESS** = Another common channel signaling (CCS) test is in progress.

5. REFERENCES

Input Message(s):

EXC:DSTT
TST:BNS
TST:CCRD
TST:ICCV
TST:INWATS
TST:RATE

Output Message(s):

EXC:DSTT
TST:BNS
TST:CAS7
TST:CCRD
TST:ICCV
TST:INWATS
TST:LNP
TST:RATE
TST:SDAP

RC/V View(s):

8.17 (DIRECT SIGNALING APPLICATIONS)
TST:MAPTQ-A

Software Release: 5E16(2) only
Command Group: CCS
Application: 5
Type: Input

1. PURPOSE

Requests that a global system for mobile communications (GSM) mobile application part (MAP) test query message be sent to the home location register (HLR).

2. FORMAT

TST:MAPTQ,MSISDN=a,GSM=b[,NBRPLN=c][,NFORWD=d]...
...[,INTTYPE=e][,FORWDREASON=f][,GLOBTITLE=g]...
...[,TRANTYPE=h];

3. EXPLANATION OF MESSAGE

a = Mobile station international ISDN (MSISDN) number consisting of 10-11 digits. Each digit is in the range of 0-9.

b = Global switching module number (range of 1-192).

c = MSISDN numbering plan. Valid value(s):

E164 = ISDN/telephony numbering plan [International Telecommunication Union - Telecommunication Standardization Sector (ITU-TS) (formerly CCITT) Recommendation E.164].

E212 = Land mobile numbering plan [ITU-TS (formerly CCITT) Recommendation E.212].

F69 = Telex numbering plan [ITU-TS (formerly CCITT) Recommendation F.69].

NATIONAL = National numbering plan.

PRIVATE = Private numbering plan.

UNKNOWN = Unknown.

X121 = Data numbering plan [ITU-TS (formerly CCITT) Recommendation X.121].

d = Number of forwardings (range of 1-5).

e = Interrogation type. Valid value(s):

BASICCALL = Basic call.

FORWARDING = Forwarded call.

f = Forwarding reason. Valid value(s):

BUSY = The mobile subscriber is busy.

NOREPLY = There is no reply from the mobile subscriber.

NOTREACHABLE = The mobile subscriber is not reachable.

g = Global title consisting of 10-11 digits. Each digit is in the range of 0-9.

h = Translation type (range of 0-255).
4. SYSTEM RESPONSE

NG = No good. May also include:
- CCS MESSAGE TRANSPORT PATH UNAVAILABLE = SS7 PSU signaling links are not available.
- FAILED TO READ RLDS_APP = Failed to read the relation RLDS_APP using the GSM MAP application as the key. Refer to RC/V View 8.17 (DIRECT SIGNALLING APPLICATION).
- FAILED TO READ RLGTS_ADDR = Failed to read the RLGTS_ADDR relation.
- GLOBAL SM IS INVALID = The entered global switching module is either invalid or is not provisioned in the office.
- GSM MAP NOT AVAILABLE = The GSM MAP functionality has not been provisioned. Refer to RC/V Views 8.15 (CCS OFFICE PARAMETERS), 8.17, and 8.42 (CCS TCAP APPLICATION).
- INVALID DATA IN RLGTS_ADDR = There is invalid data in the rlGTS_ADDR tuple. Refer to RC/V View 8.15.
- INVALID GLOBTITLE DIGITS = There is an unrecognized digit in the global title. The valid range of a digit is 0-9.
- INVALID GLOBTITLE NUMBER OF DIGITS = The number of digits in the GLOBTITLE parameter is out of range. Enter 10-11 digits.
- INVALID MSISDN DIGITS = There is an unrecognized digit in the MSISDN parameter. The valid range of a digit is 0-9.
- INVALID MSISDN NUMBER OF DIGITS = The number of digits in the MSISDN parameter is out of range. Enter 10-11 digits.
- NO GLOBAL SM IN OFFICE = There is no global switching module in this office.

NO = The request is not allowed. May also include:
- FEATURE NOT AVAILABLE = The feature associated with the requested functionality must be purchased before attempting to send the particular test query. All GSM MAP test queries require that the GSM MAP feature must be purchased.

OK = Good. The request was accepted.

PF = Printout follows. Followed by a TST:MAPTQ or TST:MAPTQ-FAIL output message.

RL = Retry later. May also include:
- FAILED TO SEND GSM MAP MESSAGE = The GSM MAP test query message could not be sent to the HLR.
- INTERNAL ERROR = Encoding of the GSM MAP test query failed.
- OVERLOAD CONDITION IN CCS MESSAGE TRANSPORT PATH = SS7 PSU signaling links are congested.
- TEST IN PROGRESS = Another GSM MAP test query is currently in progress. Wait for that test query transaction to complete before requesting another test.

5. REFERENCES

Output Message(s):

TST:MAPTQ
TST:MAPTQ-FAIL
RC/V View(s):
8.15    CCS OFFICE PARAMETERS
8.17    DIRECT SIGNALLING APPLICATION
8.42    CCS TCAP APPLICATION
TST:MAPTQ-B

Software Release: 5E18(1) and later
Command Group: CCS
Application: 5
Type: Input

1. PURPOSE

Requests that a global system for mobile communications (GSM) mobile application part (MAP) test query message
be sent to the home location register (HLR).

2. FORMAT

TST:MAPTQ, MSISDN=a, GSM=b [, NBRPLN=c] [, FORWD=d] ...
...[, INTTYPE=e] [, FORWDREASON=f] [, GLOBTITLE=g] ...
... [, TRANTYPE=h];

3. EXPLANATION OF MESSAGE

  a = Mobile station international ISDN (MSISDN) number consisting of 10-11 digits. Each digit is in the range of 0-9.

  b = Global switching module number (range of 1-192).

  c = MSISDN numbering plan. Valid value(s):

     E164 = ISDN/telephony numbering plan [International Telecommunication Union - Telecommunication Standardization Sector (ITU-TS) (formerly CCITT) Recommendation E.164].

     E212 = Land mobile numbering plan [ITU-TS (formerly CCITT) Recommendation E.212].

     F69 = Telex numbering plan ITU-TS (formerly CCITT) Recommendation F.69].

     NATIONAL = National numbering plan.

     PRIVATE = Private numbering plan.

     UNKNOWN = Unknown.

     X121 = Data numbering plan [ITU-TS (formerly CCITT) Recommendation X.121].

  d = Number of forwardings (range of 1-5).

  e = Interrogation type. Valid value(s):

     BASICCALL = Basic call.

     FORWARDING = Forwarded call.

  f = Forwarding reason. Valid value(s):

     BUSY = The mobile subscriber is busy.

     NOREPLY = There is no reply from the mobile subscriber.

     NOTREACHABLE = The mobile subscriber is not reachable.

  g = Global title consisting of 10-11 digits. Each digit is in the range of 0-9.

  h = Translation type (range of 0-255).
4. SYSTEM RESPONSE

NG

- No good. May also include:
  - CCS MESSAGE TRANSPORT PATH UNAVAILABLE = SS7 PSU signaling links are not available.
  - FAILED TO READ RLDS_APP = Failed to read the relation RLDS_APP using the GSM MAP application as the key. Refer to RC/V View 8.17 (DIRECT SIGNALLING APPLICATION).
  - GLOBAL SM IS INVALID = The entered global switching module is either invalid or is not provisioned in the office.
  - GSM MAP NOT AVAILABLE = The GSM MAP functionality has not been provisioned. Refer to RC/V Views 8.15 (CCS OFFICE PARAMETERS), 8.17, and 8.42 (CCS TCAP APPLICATION).
  - INVALID DATA IN GLGTS_ADDR = There is invalid data in the GLGTS_ADDR global parameter. Refer to RC/V View 8.15.
  - INVALID GLOBTITLE DIGITS = There is an unrecognized digit in the global title. The valid range of a digit is 0-9.
  - INVALID GLOBTITLE NUMBER OF DIGITS = The number of digits in the GLOBTITLE parameter is out of range. Enter 10-11 digits.
  - INVALID MSISDN DIGITS = There is an unrecognized digit in the MSISDN parameter. The valid range of a digit is 0-9.
  - INVALID MSISDN NUMBER OF DIGITS = The number of digits in the MSISDN parameter is out of range. Enter 10-11 digits.
  - NO GLOBAL SM IN OFFICE = There is no global switching module in the office.

NO

- The request is not allowed. May also include:
  - FEATURE NOT AVAILABLE = The feature associated with the requested functionality must be purchased before attempting to send the particular test query. All GSM MAP test queries require that the GSM MAP feature must be purchased.

OK

- Good. The request was accepted.

PF

- Printout follows. Followed by a TST:MAPTQ or TST:MAPTQ-FAIL output message.

RL

- Retry later. May also include:
  - FAILED TO SEND GSM MAP MESSAGE = The GSM MAP test query message could not be sent to the HLR.
  - INTERNAL ERROR = Encoding of the GSM MAP test query failed.
  - OVERLOAD CONDITION IN CCS MESSAGE TRANSPORT PATH = SS7 PSU signaling links are congested.
  - TEST IN PROGRESS = Another GSM MAP test query is currently in progress. Wait for that test query transaction to complete before requesting another test.

5. REFERENCES

Output Message(s):

TST:MAPTQ
TST:MAPTQ-FAIL

RC/V View(s):
8.15 CCS OFFICE PARAMETERS
8.17 DIRECT SIGNALLING APPLICATION
8.42 CCS TCAP APPLICATION
TST:MP

Software Release: 5E14 and later
Command Group: TRKLN
Application: 5
Type: Input

1. PURPOSE

Requests a test of a modem pool (MP).

Format 1 tests one or two modem pool members (MPMs). Format 2 tests an entire modem pool group (MPG) by specifying the multi-line hunt group number of the MPG or a range of MPMs within an MPG. Format 3 tests an entire MPG by specifying the modem pool access directory number (DN) of the MPG (that is, a DN that an analog user would dial to reach an X.25 terminating packet-service through the modem pool).

2. FORMAT

[1] TST:MP, MPM=a-b[,MPMB=a-f][,TYPE=d];

[2] TST:MP, MPG=a[-b&c][,TYPE=d];

[3] TST:MP, DN=e[,TYPE=d];

3. EXPLANATION OF MESSAGE

An MPG is a multi-line hunt group (MLHG). An MLHG is identified by both its group number and MLHG listed DN. An MPM is identified by the group number and member number. A modem pool test is run between two MPMs at a time. If the input message specifies a single MPM to be tested, the switch will select another MPM from the same MPG to test the first one against, and the selected member will be idle in-service-manual or in-service-auto (IS MAN/IS AUTO). If there is a member that is in-service-forced (IS FRCD), then that member will not be selected for this type of testing.

Note: To isolate a problem there must be three in-service (IS) idle modem pool members in the group. However, if the test is run with two idle members TST:MP will attempt to find a third idle IS member. If a third idle member is not found the user will be informed that no idle members were found to test.

If two MPMs are specified on the message line in Format 1, they must be members of the same MPG.

If the DN (Format 3) or just the MLHG number (Format 2) of the MPG is given, then all members of the group will be tested. In this case, the switch will select pairs of in-service and idle MPMs, run the test between those two, and report any failures.

If the input message specifies a range of MPMs (Format 2) to be tested, the test is performed on all the valid idle members in the range. If holes in the range exist, then the test would skip to the next available member in the range. If the specified upper boundary in the range is greater than the highest member number, tests would be performed on all valid idle members in the group greater than the lower boundary.

An out-of-service (OOS) MPM can be tested only if the analog side of that MPM is OOS MTCE DSBLD MAN before the test is run. While the MPM is being tested, the status will be IS FRCD UTEST AUTO. The status will be returned to OOS MTCE DSBLD MAN after the test is completed. Only Format 1 will allow the testing of an OOS MPM.

a = MLHG number of the MPG to be tested.

b = Member number of the MPM to be tested or lower limit of range of MPMs to be tested.


4. SYSTEM RESPONSE

NG  = No good. The request has been denied.

PF  = Printout follows. The request has been accepted and the test will be run. Followed by the TST:MP output message.

RL  = Retry later. The request cannot be run now because of system load.

5. REFERENCES

Output Message(s):

TST:MP
TST:NCD

**Software Release:** 5E14 and later  
**Command Group:** CCS  
**Application:** 5  
**Type:** Input  

1. **PURPOSE**  
Requests that a network call denial (NCD) query be sent to the NCD database to verify its operation.  

2. **FORMAT**  

TST:NCD=a[,,OSPS];

3. **EXPLANATION OF MESSAGE**

<table>
<thead>
<tr>
<th>OSPS</th>
<th>= Indicates an operator services position system (OSPS) application.</th>
</tr>
</thead>
<tbody>
<tr>
<td>a</td>
<td>= Ten-digit billing number to be queried, in the form NPANXXXXXX or RAO[0/1]XXXXXX.</td>
</tr>
</tbody>
</table>

4. **SYSTEM RESPONSE**

<table>
<thead>
<tr>
<th>NG</th>
<th>= No good. May also include:</th>
</tr>
</thead>
<tbody>
<tr>
<td>CNI NOT AVAILABLE</td>
<td>The test message can not be sent. The common network interface (CNI) is not operational or is in overload. Check CNI status and wait 10 minutes before requesting another test.</td>
</tr>
<tr>
<td>INVALID INPUT IN FIELD 'a'</td>
<td>Either an invalid character was input at 'a', or an incorrect number of digits was input. There must be 10 digits input at 'a'.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>PF</th>
<th>= Printout follows. The request has been received. Followed by the TST:NCD output message.</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>RL</th>
<th>= Retry later. May also include:</th>
</tr>
</thead>
<tbody>
<tr>
<td>CNI/DLN PROBLEM</td>
<td>The test message cannot be sent. The CNI is in overload or no active direct link node (DLN) is available.</td>
</tr>
<tr>
<td>TEST IN PROGRESS</td>
<td>A common channel signaling (CCS) test is currently in progress.</td>
</tr>
<tr>
<td>TOO MANY QUERIES RUNNING</td>
<td>No NCD query ID's are available.</td>
</tr>
</tbody>
</table>

5. **REFERENCES**

Input Message(s):

- EXC:DSTT  
- TST:BNS  
- TST:CAS  
- TST:CCRD  
- TST:INWATS  
- TST:RATE

Output Message(s):
EXC: DSTT
TST: BNS
TST: CAS
TST: CCRD
TST: INWATS
TST: NCD
TST: RATE
1. PURPOSE

Requests testing of the integrity of the common channel signaling (CCS) network and data consistency between the service control point (SCP) and the switch.

2. FORMAT

TST:NS800=a,ANI=b,LATA=c[,OST=d][,CICEI=e][,OPC=f];

3. EXPLANATION OF MESSAGE

a = Number to be tested. This number must be a string of ten digits.

b = Ten-digit automatic number identification (ANI) of the calling party which must have the format NPANXXXXXX.

c = Three digit absolute local access transport area (LATA) number (100-999).

d = Originating station type. Valid value(s):
   AIOD = Auto identified outward dialing - listed directory number (DN) sent.
   ANIF = Automatic number identification (ANI) failure.
   CNLES = Coinless, hospital, inmate, and so forth.
   COIN = Coin call.
   HOTEL = Hotel without room identification.
   ILCNL = InterLATA restricted- coinless line, and so forth.
   ILHT = InterLATA restricted- hotel line.
   ILRST = InterLATA restricted.
   LINE = Identified line- no special treatment.
   NLINE = Identified line, (coin or noncoin).
   ONI = Operator number identification (multiparty).
   TEST = Test call.

e = CIC expansion indicator (Y or N). Indicates whether the CIC expansion parameter should be sent in the test query. If not specified the default value is taken from the Gltcapi office parameter.

f = Origination point code consisting of a nine digit character string. Refer to the APP:POINT-CODE appendix in the Appendixes section of the Input Messages manual. Note: this option is mandatory in a multi-platform office.

4. SYSTEM RESPONSE

NG = No good. Valid value(s):
   - CCS MESSAGE TRANSPORT PATH UNAVAILABLE = SS7 PSU signaling links are not available.
   - CNI NOT AVAILABLE = The test message cannot be sent. The common network interface (CNI) is not operational or is overloaded. Check CNI status and wait at least 10
minutes before requesting another test.
- FAILED TO SENT TCAP MESSAGE = Unable to format query and sent message out to the network.
- GSM/PROTOCOL MISMATCH = The GSM and the protocol do not match, missing or incorrect data.
- INVALID INPUT IN FIELD = There is either an invalid character in variable 'a', 'b', 'c' or an incorrect number of digits. There must be digits input in variable 'a', 'b', 'c'.
- MUST ENTER OPC = The origination point code must be specified as part of the input message because either there are multiple global switch modules (GSM) in the office or the office is equipped with both common network interface (CNI) and packet switch unit (PSU) platforms.
- NO GLOBAL SM IN OFFICE = The office is not equipped with any GSMs.
- NO SS7 IN OFFICE = The office is not equipped with signaling system 7 (SS7) platform.
- OPC IS INVALID = The entered digits are either invalid, the number of digits entered is incorrect, or the point code was not provisioned in the office.
- OPC IS NOT AVAILABLE = Could not get the point code. There was missing or incorrect data.

PF = Printout follows. The request has been received. Followed by the TST:NS800 output message.
RL = Retry later. Valid value(s):
- OVERLOAD CONDITION IN CCS MESSAGE TRANSPORT PATH = SS7 PSU signaling links are congested.
- TEST IN PROGRESS = A common channel signaling (CCS) test is currently in progress.

5. REFERENCES

Output Message(s):

TST:NS800

Other Manual(s):
235-200-115 CNI Common Channel Signaling
235-200-116 Signaling Gateway Common Channel Signaling
TST:NS800-B

Software Release: 5E15 and later
Command Group: CCS
Application: 5
Type: Input

1. PURPOSE

Requests testing of the integrity of the common channel signaling (CCS) network and data consistency between the service control point (SCP) and the 5ESS®-2000 switch.

2. FORMAT

TST:NS800=a,ANI=b,LATA=c[,OST=d][,CICEI=e][,OPC=f][,PLATFORM=g];

3. EXPLANATION OF MESSAGE

a = Number to be tested. This number must be a string of ten digits.

b = Ten-digit automatic number identification (ANI) of the calling party which must have the format NPANXXXXXX.

c = Three digit absolute local access transport area (LATA) number (100-999).

d = Originating station type. Valid value(s):
   - AIOD = Auto identified outward dialing - listed directory number (DN) sent.
   - ANIF = Automatic number identification (ANI) failure.
   - CNLES = Coinless, hospital, inmate, and so forth.
   - COIN = Coin call.
   - HOTEL = Hotel without room identification.
   - ILCNL = InterLATA restricted- coinless line, and so forth.
   - ILHT = InterLATA restricted- hotel line.
   - ILRST = InterLATA restricted.
   - LINE = Identified line- no special treatment.
   - NLINE = Identified line, (coin or noncoin).
   - ONI = Operator number identification (multiparty).
   - TEST = Test call.

e = CIC expansion indicator (Y or N). Indicates whether the CIC expansion parameter should be sent in the test query. If not specified the default value is taken from the Gltcapi office parameter.

f = Origination point code consisting of a nine digit character string. Refer to the APP:POINT-CODE appendix in the Appendixes section of the Input Messages manual. Note: this option is mandatory in a multi-platform office.

= Signaling Platform. Valid value(s):
   - 0 = Common Network Interface (CNI) Platform
   - 1 - 192 = Global Switching Module (GSM) Number

Note: this option is mandatory in a multi-platform office.
4. SYSTEM RESPONSE

NG = No good. Valid value(s):
- CCS MESSAGE TRANSPORT PATH UNAVAILABLE = SS7 PSU signaling links are not available.
- CNI NOT AVAILABLE = The test message cannot be sent. The common network interface (CNI) is not operational or is overloaded. Check CNI status and wait at least 10 minutes before requesting another test.
- FAILED TO SENT TCAP MESSAGE = Unable to format query and sent message out to the network.
- GSM/PROTOCOL MISMATCH = The GSM and the protocol do not match, missing or incorrect data.
- INVALID INPUT IN FIELD = There is either an invalid character in variable 'a', 'b', 'c' or an incorrect number of digits. There must be digits input in variable 'a', 'b', 'c'.
- MUST ENTER OPC = The origination point code must be specified as part of the input message because either there are multiple global switch modules (GSM) in the office or the office is equipped with both common network interface (CNI) and packet switch unit (PSU) platforms.
- MUST ENTER PLATFORM = The signaling platform must be specified as part of the input message because either there are multiple global switch modules (GSM) in the office or the office is equipped with both common network interface (CNI) and packet switch unit (PSU) platforms.
- NO GLOBAL SM IN OFFICE = The office is not equipped with any GSMs.
- NO SS7 IN OFFICE = The office is not equipped with signaling system 7 (SS7) platform.
- OPC IS INVALID = The entered digits are either invalid, the number of digits entered is incorrect, or the point code was not provisioned in the office.
- OPC IS NOT AVAILABLE = Could not get the point code. There was missing or incorrect data.
- OPC NOT ON PLATFORM = Could not find the point code on the platform entered.
- PLATFORM IS INVALID = The entered signaling platform is either invalid or the platform entered is not provisioned in the office.

PF = Printout follows. The request has been received. Followed by the TST:NS800 output message.

RL = Retry later. Valid value(s):
- OVERLOAD CONDITION IN CCS MESSAGE TRANSPORT PATH = SS7 PSU signaling links are congested.
- TEST IN PROGRESS = A common channel signaling (CCS) test is currently in progress.

5. REFERENCES

Output Message(s):

TST:NS800

Other Manual(s):
235-200-115  CNI Common Channel Signaling
235-200-116  Signaling Gateway Common Channel Signaling
TST:OLNS

Software Release: 5E14 and later
Command Group: CCS
Application: 5
Type: Input

1. PURPOSE

Requests that a originating line number screening (OLNS) query be sent to the line information database (LIDB) to verify its operation.

2. FORMAT

TST:OLNS=a

3. EXPLANATION OF MESSAGE

a = 10-digit calling number to be queried in the form NPANXXXXXX.

4. SYSTEM RESPONSE

NG = No good. Includes one of the following:
- REASON FOR NG = Explanation of reason.
- INVALID CLG NUMBER = The calling number is invalid. The NANP calling number must be a 10-digit number.
- CNI NOT AVAILABLE = The query test cannot be sent to the LIDB database because the common network interface (CNI) is not available.
- TEST IN PROGRESS = Another common channel signaling (CCS) test is in progress.
- INTERNAL ERROR = There is an internal error with the LIDB query format.

PF = Printout follows. The request has been received. The output message TST:OLNS follows.

RL = Retry later. Includes one of the following:
- CNI/DLN PROBLEM = The test message cannot be sent - CNI is in overload or no active direct link node (DLN) is available.
- TEST IN PROGRESS = Another common channel signaling (CCS) test is in progress.
- TOO MANY QUERIES RUNNING = No OLNS query IDs are available.

5. REFERENCES

IM/OM References:

None.
TST:OSPS

Software Release: 5E14 and later
Command Group: TRKLN
Application: 5
Type: Input

1. PURPOSE

Requests that the Hotel Billing Information System (HOBIS) or hotel billing information center (HOBIC) printer be tested by printing a text string (THE QUICK BROWN FOX JUMPED OVER THE LAZY DOGS.$#: /-'0123456789,"). The message accepts as input either the external Operator Services Position System (OSPS) equipment ID or the internal integrated services line unit (ISLU) line card ID.

This input message can also be used to test an autoquote establishment modem and printer by sending a text string (same as above), or by sending a series of "ENQ" characters, or by raising the carrier at the autoquote digital subscriber line (DSL) modem.

2. FORMAT

TST:OSPS,\{HOBIS=a-b|HOBICR=c-d|HOBICV=c-e|LCEN=f-g-h-i
|AQEST=j[,AQ=k-l],m\};

3. EXPLANATION OF MESSAGE

Note: Refer to the Acronym section of the Input Messages manual for the full expansion of acronyms shown in the format.

a = Hotel Billing Information System (HOBIS) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

b = Relative digital subscriber line (DSL) number assigned to a HOBIS data link DSL. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

c = Hotel billing information center (HOBIC) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

d = Relative DSL number assigned to a HOBICR (HOBIC record TTY) data link DSL. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

e = Relative DSL number assigned to a HOBICV (HOBIC voice-quote TTY) data link DSL. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

f = Switching module number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

g = Line unit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

h = Line group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

i = Line card ID. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

j = Directory (telephone) number of AQEST.
k = AQ group ID (1).

l = AQ relative DSL number (0-15).

m = Test type for AQEST. Valid value(s):
   CARRIER = Raise the carrier from local modem (connected at the Autoquote DSL) for 90 seconds on the hotel-leased line.
   ENQACK = Send a series of ENQ characters to AQEST for 5 seconds at 500-millisecond intervals.
   PRINT = Print the text string on AQEST printer.

4. SYSTEM RESPONSE

   IP = In progress. A message to the HOBIS/HOBIC service process has been sent.

   NG = No good. May also include:
       - LCEN UNKN = The given HOBIS/HOBIC LCEN is invalid.

   RL = Retry later. The request has been denied, probably due to system load.

5. REFERENCES

   Output Message(s):

   TST:OSPS

   Other Manual(s):
   235-900-500  OSPS Automated Charge Quotation Service
TST:PATH-A

Software Release: 5E15 only
Command Group: TRKLN
Application: 5
Type: Input

1. PURPOSE

Format 1 is for requesting the automatic digital 64Kbps pseudo random bit error rate (BER) loopback test call on inter-working gateway (IWG) paths. The users enter the external identifiers required to adequately identify the SM and IWG minimumly to be used for testing. The path equipment number (PEN) are optional identifiers for requesting specific test path. In addition, the user must specify the IWG as the loopback (LPBK) termination point.

Format 2 is for requesting end to end test calls (also referred to as the 108 or BICC test call) of ATM packet network switched virtual connections (SVC) connections. The users are required to specify the BICC identifier and out pulse digits (OPDN). The LPBK termination is default to test line (TL) for BICC test call.

This test requires the use of a integrated services test function (ISTF) or global digital services function (GDSF) as the digital test source. One test equipment transmit/receive channel (maximum of 3 per ISTF and 16 per GDSF) must be allocated for each path to be tested. The data rate of the digital bit stream may be specified using the RATE parameter.

The test activates the specified (or default) LPBK termination, establishes a digital path between the test equipment channel and the associated IWG and SVC path, and transmits a pseudo random bit stream to be returned at the location of LPBK termination. The incoming bit stream (returning from the LPBK) is checked by the test equipment to derive the bit error rate (BER) and the errored blocks (ERBLK) for output. The success or failure of testing is based on the acceptable bit error rate (ABER), which is default to 6 - the failing BER of 1 or more bits in error, for every 1,000,000 bits transmitted.

Any TST:PATH request may be stopped using the STP:TST-PATH input message.

2. FORMAT

[1] TST:PATH:IWG=a-b[,PEN=c[-d[-e]]][,TERM=f][,TYPE=g]. . .[,DUR=h][,RATE=i][,RPT=j][,BLKSZ=k][,ROP];

[2] TST:PATH:{BG=n|BGMN=n-o},OPDN=m. . .[,IWG=a-b[,PEN=c[-d[-e]]][,OC3=p][,TYPE=g][,DUR=h]. . .[,RATE=i][,RPT=j][,BLKSZ=k][,ROP];

3. EXPLANATION OF MESSAGE

Refer to the Acronym section of the Input Messages manual for the full expansion of acronyms shown in the format.

ROP = The ROP parameter frees the invoking terminal (such as, TLWS, MCC) for subsequent work while test results are logged only on the ROP device. This is useful when performing long duration tests in modes that produce multiple output messages.

a = Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

b = Inter-working gateway (IWG) unit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
c = Relative link number (0-4).

Each relative link (rlink) is a coaxial cable connected to a synchronous transport signal number 1 (STS-1e) card in the IWG. Each rlink is equivalent to a host facility on the IWG (also equivalent to IWGFAC#-1).

d = Relative tributary number (0-27).

Each rlink has 28 relative tributary numbers (rtrib). The rtrib is a logical entity on the rlink, which is equivalent to a DS1 in the DNUS. Each rtrib is a physical device chip inside of IWG which capable of handling 24 channels.

e = Digital signal 0 (DS0) value (0-23).

DS0 is logical channels inside the rtrib. The total logical DS0 channels (total rtrib * total DS0) on a rlink is equivalent to the total time slots (TS) on 5E.

f = Termination.

For digital LPBK testing, the termination is the point at which the test data is returned to the test equipment for evaluation. A LPBK termination may be provided using the built in capabilities of transmission equipment.

For Format 1 Only:

IWG = Inter-working gateway. The termination loopback is provided within the IWG connected to the SM.

DEFAULT: IWG

For Format 2 Only:

TL = Test Line. The termination loopback is provided at the test line on the terminating switch.

DEFAULT: TL

g = The type of test to be executed. Valid value(s):

BER = Non-inverted loopback. All bits are returned in the same order as sent.
BERINV = Inverted loopback. All bits are returned as a mirror image of the order sent.

For Format 1 : only BER is allowed. DEFAULT: BER

h = Duration (DUR) of test (1-3600, default 20).

The duration is the length of time (in seconds) that the test source sends test data. In general, the test duration does not include the setup time, or idling time associated with any test request. The elapsed time taken for the test request to complete can be significantly greater than the actual test duration.

i = Data rate.
This is rate of the digital bit stream to be sourced by the ISTF|GDSF during LPBK testing. Valid value(s):

- **64CLR** = 64000 bits/sec clear channel (that is, zero-octet allowed). Default.
- **64RES** = 64000 bits/sec restricted (that is, zero-octet suppressed).
- **56KPS** = 56000 bits/sec.

\[ j \] = Number of times to repeat the test (default 1).

The current valid repeat test is once. The repeat capability will be implemented in later generic.

\[ k \] = Block-size (BLKSZ) (1-64000).

For LPBK testing, the digital-bit-stream is partitioned into segments called blocks, specified using the BLKSZ parameter. The BLKSZ is the number of bits in each block. The BLKSZ is used by the ISTF|GDSF to calculate the total ERBLK for output. The ERBLK result characterizes the accumulation of bit-errors. Varying the BLKSZ allows the distribution of errors over time to be better understood.

For Format 1 Only: If BLKSZ is not specified, the default is chosen based on the data rate used.

Valid value(s):

- **56000** = For RATE=56KPS.
- **64000** = For RATE=64RES or RATE=64CLR.

For Format 2 Only: LPBK testing across ATM network, the BLKSZ is the block of multiple ATM cells.

If BLKSZ is not specified, the default is 384 (48 bytes per ATM cell * 8 cells per block).

\[ m \] = Digits to be outpulsed for the specified test.

\[ n \] = BICC group number (7000-7999).

\[ o \] = BICC group member, normalized CIC (0-65535).

\[ p \] = Optical carrier 3 (OC3) link (0-1).

### 4. SYSTEM RESPONSE

\[ PF \] = Printout follows. A unique request number is given to each test path requested and is output as "PF - REQNO=x".

If the test request is incomplete or invalid, a single TST:PATH output message is generated indicating the failure.

If the test request is completed, the test procedure attempts to seize control of all resources required for testing.

The number of TST:PATH output messages generated varies in accordance with the number of tests. In general, an output message is generated for each path tested; however, if the same failure occurs on all path tested, one output message may be output for all path. Primarily, the test duration determines the elapsed time between output messages for multi-section tests. When a TST:PATH
request is complete, an end-of-transmission (EOT) flag appears on output.

RL = Retry later. The request has been denied due to unavailable system resources.

5. REFERENCES

Input Message(s):

STP:TST-PATH
OP:BICC
OP:JOBSTATUS

Output Message(s):

TST:PATH
OP:BICC
OP:JOBSTATUS

Input Appendix(es):

APP:RANGES
1. PURPOSE

Format 1 is for requesting the automatic digital 64Kbps pseudo random bit error rate (BER) loopback test call on inter-working gateway (IWG) paths. The users enter the external identifiers required to adequately identify the SM and IWG minimally to be used for testing. The path equipment number (PEN) are optional identifiers for requesting specific test path. In addition, the user must specify the IWG as the loopback (LPBK) termination point.

Format 2 is for requesting end to end test calls (also referred to as the 108 or BICC test call) of ATM packet network switched virtual connections (SVC) connections. The users are required to specify the BICC identifier and out pulse digits (OPDN). The LPBK termination is default to test line (TL) for BICC test call.

This test requires the use of a integrated services test function (ISTF) or global digital services function (GDSF) as the digital test source. One test equipment transmit/receive channel (maximum of 3 per ISTF and 16 per GDSF) must be allocated for each path to be tested. The data rate of the digital bit stream may be specified using the RATE parameter.

The test activates the specified (or default) LPBK termination, establishes a digital path between the test equipment channel and the associated IWG and SVC path, and transmits a pseudo random bit stream to be returned at the location of LPBK termination. The incoming bit stream (returning from the LPBK) is checked by the test equipment to derive the bit error rate (BER) and the errored blocks (ERBLK) for output. The success or failure of testing is based on the acceptable bit error rate (ABER), which is default to 6 - the failing BER of 1 or more bits in error, for every 1,000,000 bits transmitted.

Any TST:PATH request may be stopped using the STP:TST-PATH input message.

2. FORMAT

[1] TST:PATH:IWG=a-b[,PEN=c[-d[-e]]][,TERM=f][,TYPE=g]. . .[,DUR=h][,RATE=i][,RPT=j][,BLKSZ=k][,ROP];

[2] TST:PATH:{BG=n|BGMN=n-o},OPDN=m. . .[,IWG=a-b[,PEN=c[-d[-e]]][,OC3=p][,TYPE=g][,DUR=h]. . .[,RATE=i][,RPT=j][,BLKSZ=k][,ROP];

3. EXPLANATION OF MESSAGE

Refer to the Acronym section of the Input Messages manual for the full expansion of acronyms shown in the format.

ROP = The ROP parameter frees the invoking terminal (such as, TLWS, MCC) for subsequent work while test results are logged only on the ROP device. This is useful when performing long duration tests in modes that produce multiple output messages.

a = Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

b = Inter-working gateway (IWG) unit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

c = Relative link number (0-4).
Each relative link (rlink) is a coaxial cable connected to a synchronous transport signal number 1 (STS-1e) card in the IWG. Each rlink is equivalent to an Host Facility on the IWG (also equivalent to IWGFAC#-1).

d = Relative tributary number (0-27).

Each rlink has 28 relative tributary numbers (rtrib). The rtrib is logical entity on the rlink, which is equivalent to a DS1 in the DNUS. Each rtrib is a physical device chip inside of IWG which capable of handling 24 channels.

e = Digital signal 0 (DS0) value (0-23).

DS0 is logical channels inside the rtrib. The total logical DS0 channels (total rtrib * total DS0) on a rlink is equivalent to the total time slots (TS) on 5E.

f = Termination.

For digital LPBK testing, the termination is the point at which the test data is returned to the test equipment for evaluation. A LPBK termination may be provided using the built in capabilities of transmission equipment.

For Format 1 Only:

IWG = Inter-working gateway. The termination loopback is provided within the IWG connected to the SM.

DEFAULT: IWG

For Format 2 Only:

TL = Test Line. The termination loopback is provided at the test line on the terminating switch.

DEFAULT: TL

g = The type of test to be executed. Valid value(s):

BER = Non-inverted loopback. All bits are returned in the same order as sent.
BERINV = Inverted loopback. All bits are returned as a mirror image of the order sent.

For Format 1 : only BER is allowed. DEFAULT: BER

h = Duration (DUR) of test (1-3600, default 20).

The duration is the length of time (in seconds) that the test source sends test data. In general, the test duration does not include the setup time, or idling time associated with any test request. The elapsed time taken for the test request to complete can be significantly greater than the actual test duration.

i = Data rate.

This is rate of the digital bit stream to be sourced by the ISTF|GDSF during LPBK testing. Valid value(s):

64CLR = 64000 bits/sec clear channel (that is, zero-octet allowed). Default.
64RES = 64000 bits/sec restricted (that is, zero-octet suppressed).
56KPS = 56000 bits/sec.

j = Number of times to repeat the test (default 1).
The current valid repeat test is once. The repeat capability will be implemented in later generic.

k = Block-size (BLKSZ) (1-64000).
For LPBK testing, the digital-bit-stream is partitioned into segments called blocks, specified using the BLKSZ parameter. The BLKSZ is the number of bits in each block. The BLKSZ is used by the ISTF|GDSF to calculate the total ERBLK for output. The ERBLK result characterizes the accumulation of bit-errors. Varying the BLKSZ allows the distribution of errors over time to be better understood.

For Format 1 Only: If BLKSZ is not specified, the default is chosen based on the data rate used.
Valid value(s):
56000 = For RATE=56KPS.
64000 = For RATE=64RES or RATE=64CLR.

For Format 2 Only: LPBK testing across ATM network, the BLKSZ is the block of multiple ATM cells.
If BLKSZ is not specified, the default is 384 (48 bytes per ATM cell * 8 cells per block).

m = Digits to be outputed for the specified test.

n = BICC group number (7000-7999).

o = BICC group member, normalized CIC (0-65535).

p = Optical carrier 3 (OC3) link (0-1).

4. SYSTEM RESPONSE

PF = Printout follows. A unique request number is given to each test path requested and is output as "PF - REQNO=x".

If the test request is incomplete or invalid, a single TST:PATH output message is generated indicating the failure.

If the test request is completed, the test procedure attempts to seize control of all resources required for testing.

The number of TST:PATH output messages generated varies in accordance with the number of tests. In general, an output message is generated for each path tested; however, if the same failure occurs on all path tested, one output message may be output for all path. Primarily, the test duration determines the elapsed time between output messages for multi-section tests. When a TST:PATH request is complete, an end-of-transmission (EOT) flag appears on output.

RL = Retry later. The request has been denied due to unavailable system resources.
5. REFERENCES

Input Message(s):

STP: TST–PATH
OP: BICC
OP: JOBSTATUS

Output Message(s):

TST: PATH
OP: BICC
OP: JOBSTATUS

Input Appendix(es):

APP: RANGES
1. PURPOSE

The TST:PATH input message is used by office personnel to perform test calls on voice, data, or control paths involving system components. TST:PATH test calls are not associated with a specific trunk or line. There are multiple formats of the TST:PATH input messages that can be performed on an optical interface unit (OIU) serving both ATM and IP connections, as well as PSU PH’s. These input messages provide functionality for supporting both loopback and end-to-end type testing. Any TST:PATH request may be stopped using the STP:TST-PATH input message.

Format 1 is for requesting the ATM packet pipe trunk test. In this format, the trunk can be identified by trunk group number and trunk member number or by SM number, packet switch unit (PSU) number, ATM link number and virtual connection identifier (VCID) number. Also, this command provides two mechanisms to run repeating test on ATM packet pipe trunk. One is "RPT", another is the parameter of "DUR".

This test is created for PHA2 which allows ATM permanent virtual circuits (PVCs) to be terminated on digital cellular switch (DCS) to transport cell site to PSU bearer traffic over ATM. Those ATMPPs are represented as trunk group and trunk members similar to frame relay protocol handler (FRPH) PPs.

This test provides an ability to detect the configuration for both the cell site and DCS. For the duplex channel mode, the STBY channel will be marked with a "*".

This test can be run on both the IS ATMPP trunk and OOS ATMPP trunks. (Note: When ATMPP trunk is in OOS state, only "OOS-MTCE-DSBLD and OOS-CADN-DSBLD" are allowed to run test). When execute an ATM loop back test while ATMPP trunk is OOS, this test is used to allow verification of PVC provisioning in the ATM network prior to making the ATMPP trunk operational.

Format 2 is for requesting the ATM OA&M loop back test on signaling ATM adaptation layer-high speed link (SAAL HSL). The SAAL HSL is also known as PSU PIPE, and appears on RC/V View 22.25 (PACKET SWITCH UNIT PIPE). It carries the ATM traffic containing SS7 signaling for all the ISUP/BICC trunks in the whole office. The SAAL HSL connects two CCS nodes, and can be identified by PSU equipment number (PSUEN).

This test provides a mechanism to detect the availability of the ATM layer functions of HSL. The user can initiate a test from one CCS node, for example, 5ESS. This CCS node sends out OA&M cell to the far end CCS node and gets loop back cell back, the result will be looked as successful completion.

This test can only be run on IS SAAL-HSL, and access is denied when the user attempts to run the OA&M loop-back on the OOS SAAL HSL.

The DELAY test call be used to identify the round-trip transmission delay associated with an OIU-IP bearer path connection to a far-end office, as well as to measure some basic transmission characteristics of the looped back path.

Format 3 is used for requesting the DELAY loop-back test call for OIU-IP test paths. For loop-back related test there is no signaling required outside of the office. The TST:PATH input message to supports the addition of OIUPG and PCTTS input parameters.

This test will exercise the majority of the OIU-IP hardware functionality, including (outgoing) the conversion of a TDM channel into IP packets and (incoming) the conversion of IP packets into a TDM channel. The final step of inserting outgoing packets onto the outgoing OC3C link is skipped for the OIU-IP loop-back test call, and instead of leaving
the OIP-IP test path, these packets are instead processed as if they had just been received over the incoming OC3C link packet stream.

Format 4 is used for requesting a DELAY test calls over an OIU-IP bearer network path to a far end office. For end to end loop testing a test signal is supported to the far-end office much like standard OIU-IP calls (for example, BICC, and so forth).

Format 5 is used for requesting an outgoing test call over an OIU-IP bearer network using the 105 voice quality test type. The MEAS options allows office personnel to enter the specific 105 measurement to run. If only a packet group (PKTG) is specified, the system will select the appropriate call resources associated with that group. Selecting the PKTGMN keyword gives office personnel the ability to select a specific call identification code (CIC) within the packet group for BICC signaling.

Format 6 will run a SCTP heartbeat (SCTPHB) test to evaluate the SCTP association path.

This test validates the integrity of SCTP association path. The user can request to test one specific association or the whole association set (by input ASSOCSET or PTKTG). The input message also provides testing of an active path (default), a specific path (DIP) or all paths (ALL) of the associations(s). This test path does not need a bearer path through the packet network. The serving SIP-T PH performs the role of the test equipment and interfaces with the SCTP layer manager to execute the requested test.

2. FORMAT

  . . . ATMPP=a-b-c[-d]{,TG=e|TKGMN=e-f[&&g]}. . .
  . . .[DUR=h]{[,CAMP=x][,RPT=j][,ROP];

  . . .[,ROP];

  . . .[,ROP];

  . . .[OIU=a-q|OIUPG=a-q-r],OPDN=s[,RPT=j][,ROP];

  . . .[OIU=a-q|OIUPG=a-q-r],OPDN=s[,RPT=j][,ROP];

  . . .[,DIP=y|ALL][,RPT=z][,ROP];

3. EXPLANATION OF MESSAGE

NOTE: Refer to the Acronym section of the Input Messages manual for the full expansion of acronyms shown in the format.

ATMENH = ATMPP enhanced loop-back test. Used to request the exact configuration of cell sites corresponding to the DCS side, which are represented as trunk group and trunk member.
ATMLBK = Standard ATMPP loopback request.

ROP = The ROP parameter frees the invoking terminal (such as, TLWS, MCC) for subsequent work while test results are logged only on the ROP device. This is useful when performing long duration tests in modes that produce multiple output messages.

a = Switching module (SM) number. Refer to the APP: RANGES appendix in the Appendixes section of the Input Messages manual.

b = Packet switch unit (PSU). Refer to the APP: RANGES appendix in the Appendixes section of the Input Messages manual.

c = ATM link unit number (1-10).

d = VCID number (0-1023) or ALL. When ALL is specified, then all of the VCIDs on the link will be tested.

e = Trunk group (TG) number.

f = Trunk group member (TKGMN) number or lower limit of range of trunk group member numbers.

g = Upper limit of range of trunk group member numbers.

h = The duration or length of time the test source sends test data. The range of the duration is 6-3600, default value is 5. The test duration does not include the setup or idling time associated with the test. The elapsed time for the test request to complete can be significantly greater than the actual test duration.

i = Camp-on (CAMP) time (10-3600). Test camps-on the requested test for the time specified (in seconds), wait for the required resources to become available. Once the resources become available the test proceeds. If the resources do not become available in the specified time, the test is aborted.

j = Number of times to repeat the test. For Format 1, the range is from 1 to 126. For all other formats, the range is from 1 to 32. The default is 1.

k = PSU shelf number (0-4).

l = PSU channel number (0-15).

m = PSU channel member number (0-127).

n = The DELAY test timeout threshold in milliseconds. The accuracy of the measurement in the GDSF is only to within about 10 milliseconds, which is sufficient to measure the impact of the end-to-end network delay on the perceived quality of a voice call. The DELAY test will compare the round-trip transmission delay against this value to determine the results of the test. If the round-trip delay is equal or less than the specified delay timeout, the result will indicate the delay threshold was not exceeded.

o = Packet group (PKTG) number over which to set up the test call (7000-7999).

p = Packet group member number (PKTGMN). Only valid for BICC packet groups, and is the normalized call identification code (CIC) to use for the test call (0-65535).
\( q \) = Optical interface unit (OIU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

\( r \) = Optical interface unit protection group (OIUPG) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

\( s \) = Digits to be outpulsed for the specified test. This represents the test lines DN in the far-end office to be outpulsed by the near-end office during the establishment of the loop-back test between the far and near-end offices. The digits outpulsed should be the digits necessary to connect to the appropriate incoming test line in the far-end office for the outgoing test type specified. This represents the exact digit sequence that will be sent to the far-end office, without any routing or steering digits being added.

\( t \) = Peripheral control and timing (PCT) link number, relative to the OIU (0-2).

\( u \) = PCT time slot (PCTTS) number (0-767).

\( v \) = The type of 105 measurement to perform on the path under test. It represents the measurements for a two-way balance, loss, and noise 105 transmission test. This option allows the user to specify the measurement type to perform on the path under test between the far-end to near-end and near-end to far-end offices.

<table>
<thead>
<tr>
<th>Measurement Type:</th>
<th>Explanation:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Standard</td>
<td>A standard 105 test. Valid value(s):</td>
</tr>
<tr>
<td></td>
<td>105</td>
</tr>
<tr>
<td>Loss</td>
<td>Used to provide a specific level of loss on the path for the 105 test path. Valid value(s):</td>
</tr>
<tr>
<td></td>
<td>L = A tone with a measured zero dBm0 loss on the path.</td>
</tr>
<tr>
<td></td>
<td>L4 = A tone with a measured loss of -16dBm0 at a frequency of 404 Hz on the path.</td>
</tr>
<tr>
<td></td>
<td>L10 = A tone with a measured loss of 0dBm0 at a frequency of 1004Hz on the path.</td>
</tr>
<tr>
<td></td>
<td>L28 = A tone with a measured loss of -16dBm0 at a frequency of 2804Hz on the path.</td>
</tr>
<tr>
<td></td>
<td>GS = Measures the gain slope.</td>
</tr>
<tr>
<td></td>
<td>Selecting All measures the loss for all tones L4, L10, and L28.</td>
</tr>
<tr>
<td>Return and/or Noise</td>
<td>Specifies the type of noise or return loss for which measurement thresholds are to be defined. Valid value(s):</td>
</tr>
<tr>
<td></td>
<td>ERL = Echo return loss.</td>
</tr>
<tr>
<td></td>
<td>RL = Return loss.</td>
</tr>
<tr>
<td></td>
<td>SRL = Singing return loss.</td>
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<tr>
<td></td>
<td>SHI = Singing return loss high.</td>
</tr>
<tr>
<td></td>
<td>RN = Near-end ROTL noise.</td>
</tr>
<tr>
<td></td>
<td>N = Fear-end noise.</td>
</tr>
<tr>
<td></td>
<td>NT = Noise with tone (1004.Hz notch filter).</td>
</tr>
<tr>
<td></td>
<td>Selecting All measures the noise for all RN, N, and NT noise parameters.</td>
</tr>
</tbody>
</table>

\( w \) = Association set parameter. It is a request to test the whole association set which could have up to 64 associations. Since one association set corresponds to one packet group, ASSOCSET could be found using PKTG on RC/V View 5.71 (PACKET GROUP DEFINITION). Designating ALL
causes the heart beat test to be executed for all paths of the association(s).

\(x\) = Association. It is a request to run a test on a single association. Refer to RC/V View 33.23 (ASSOCIATION SET) to find the associations under the specified set. Refer to RC/V View 33.22 (SCTP ASSOCIATION) to find the association information.

\(y\) = Destination internet protocol address, in the form \(xxx.xxx.xxx.xxx\). It is a request to the SCTP HB test on the specific path in one association. It is not applicable for PKTG and ASSOCSET parameter. Once the association is known, the user can access RC/V View 33.22 to identify the DIP1 and DIP2 values (there are two DIPs associated with one association).

\(z\) = Repeat test. Used to perform successive SCTPHB test on the target. Currently it's only supported when ASSOCIATION is identified. It is not used with the ASSOCSET and PKTG parameters.

4. SYSTEM RESPONSE

\(PF\) = Printout follows. A unique request number is given to each test path requested and is output as "PF - REQNO=x".

If the test request is incomplete or invalid, a single TST:PATH output message is generated indicating the failure.

If the test request is completed, the test procedure attempts to seize control of all resources required for testing.

The number of TST:PATH output messages generated varies in accordance with the number of tests. In general, an output message is generated for each path tested; however, if the same failure occurs on all path tested, one output message may be output for all path. Primarily, the test duration determines the elapsed time between output messages for multi-section tests. When a TST:PATH request is complete, an end-of-transmission (EOT) flag appears on output.

\(RL\) = Retry later. The request has been denied due to unavailable system resources.

5. REFERENCES

Input Message(s):

```
STP:TST-PATH
TST:TRK
OP:BICC
OP:JOBSTATUS
```

Output Message(s):

```
TST:PATH
OP:BICC
OP:JOBSTATUS
```

Input Appendix(es):

```
APP:RANGES
```
**TST:PSALNK**

**Software Release:** 5E17(1) and later  
**Command Group:** MAINT  
**Application:** 5  
**Type:** Input

**1. PURPOSE**

Requests an asynchronous transfer mode (ATM) level loop back test between two end points of a virtual path in a point-to-multipoint ATM network. This command is only available when the PSU link uses a PHA2(s).

A virtual path (VPATH) is uniquely identified by the CAs of two PSUs within the point-to-multipoint ATM network, that the VPATH connects. The near end PSU link is entered in the input message line. However, the VPATH's far end PSU CA must be entered as a PSU CA. If the far end PSU CA is not entered then a loopback test will be executed to every other possible PSU CA in the network. If the far end PSU CA is entered as 0, then a loopback test will be executed to every other possible PSU CA in the DCS.

When requesting an inter-network loopback test the far subnetwork number is needed.

There are two options of the loop back test. The default loop back test is the standard test as described in the GR-1248 ATM specification. This test is useful for checking provisioning between ATM end points through an ATM center-stage switch. This test verifies that the far end point received the loop back cell, and returned the cell within the proper time interval. This test will not detect the case where the far end point that returned the ATM loop back cell was not the end point specified by the input message. This could happen if there is a misprovisioned ATM center-stage switch that connects to an ATM end point that can return the loop back cell.

The second option is the "Enhanced" test, which is invoked using the "ENH" parameter. The enhancement option is a non-standard, loop back test that explicitly verifies the virtual path between Lucent Technology PHAs. This test uses the information available at the far end point to overwrite part of the ATM loop back cell "Source ID" field before sending back the cell. The originating end point validates the received "Source ID", and outputs the far end point's PSU CA as well as the far network and VPI/VCI on which the loop back cell was received. This test can only be properly used between PSU CA end points.

**2. FORMAT**

```
TST:PSALNK=a-b-c[,FARSN=d][,FARCA=e][,VP][,VC][,TRACE][,ENH];
```

**3. EXPLANATION OF MESSAGE**

- **ENH** = Enhancement option for more rigorous verification of the "Source ID" field in the ATM loop back cell. With this option, the far end ATM and the virtual path taken by the responding loop back cell are explicitly verified. Refer to the PURPOSE section for more complete explanation. This test is only to be used between PSU CA end points.

- **VC** = Virtual channel option specifies that a virtual channel test be executed.

- **VP** = Virtual path option specifies that a virtual path test be executed.

- **TRACE** = Trace option specifies that a trace of the far endpoints routing data be executed.

- **a** = Switching module (SM) number.

- **b** = PSU number.

- **c** = PSU link number.
d = Far subnetwork number.

e = Far end PSU community address of a virtual path.

4. SYSTEM RESPONSE

NG = No good. The request has been denied. The message is valid but the request conflicts with current equipage or status.

PF = Printout follows. Followed by the TST:PSALNK output message.

RL = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

Output Message(s):

TST:PSALNK

Input Appendix(es):

APP: RANGES
TST:PSLNK-A

Software Release: 5E14-5E15
Command Group: MAINT
Application: 5
Type: Input

1. PURPOSE

Requests an asynchronous transfer mode (ATM) level loop back test between two end points of a packet switch unit (PSU) link (PSLNK) in a point-to-point network configuration (Formats 1 through 3) or between two end points of a virtual path in a point-to-multipoint ATM network (Formats 4 through 6). Each end point is uniquely addressed with a non-zero PSU community address (CA) within that network.

A PSU link is uniquely identified by the CAs of two PSUs within the point-to-point network, that this PSU link connects. Similarly, a virtual path (VPATH) is uniquely identified by the CAs of two PSUs within the point-to-multipoint ATM network, that this VPATH connects. The near end PSU CA can be entered directly in the input message line or can be translated by the switch from the entered PSU equipment number. However, the PSU link's or VPATH's far end PSU CA can not be specified by the PSU equipment number and must always be entered as PSU CA. For gateway PHAs the far subnetwork number is needed to do the loopback test. The test cannot be started from a gateway PHA.

There are two options of the loop back test. The default loop back test is the standard test as described in the GR-1248 ATM specification. This test is useful for checking provisioning between ATM end points through an ATM center-stage switch. This test verifies that the far end point received the loop back cell, and returned the cell within proper time interval. This test will not detect the case where the far end point that returned the ATM loop back cell was not the end point specified by the input command. This could happen if there is a misprovisioned ATM center-stage switch that connects to an ATM end point that can return the loop back cell.

The second option is the "Enhanced" test, which is invoked using the "ENH" parameter. The enhancement option is a non-standard, Lucent-only loop back test that explicitly verifies the virtual path between Lucent PHAs. This test uses the information available at the far end point to overwrite part of the ATM loop back cell "tag" field before sending back the cell. The originating end point validates the received "tag", and outputs the far end point's PSU CA as well as the VPI on which the loop back cell was received. This test can only be properly used between Lucent PSU CA end points.

2. FORMAT

[1] TST:PSLNK=a-b[,ENH];
[2] TST:PSLNK,PSUCA=a,FARCA=b[,ENH];
[3] TST:PSLNK,PSU=c-0,FARCA=b[,ENH];
[4] TST:PSLNK,VPATH=a-b[,FARSN=d][,ENH];
[5] TST:PSLNK,VPATH,PSUCA=a,FARCA=b[,FARSN=d][,ENH];
[6] TST:PSLNK,VPATH,PSU=c-0,FARCA=b[,FARSN=d][,ENH];

3. EXPLANATION OF MESSAGE

a = Near end PSU community address (a non-zero number) of the PSU link or virtual path.
b = Far end PSU community address (a non-zero number) of a PSU link or of a virtual path.
Switching module (SM) number.

Far subnetwork number

Enhancement option for more rigorous verification of the "tag" field in the ATM loop back cell. With this option, the far end point and the virtual path taken by the responding loop back cell are explicitly verified. See above for more complete explanation. This test is only to be used between PSU CA end points.

4. SYSTEM RESPONSE

NG = No good. The request has been denied. The message is valid but the request conflicts with current equipage or status.

PF = Printout follows. Followed by the TST:PSLNK output message.

RL = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

Input Appendix(es):

APP: RANGES

Output Message(s):

TST:PSLNK
1. PURPOSE

Requests an asynchronous transfer mode (ATM) level loop back test between two end points of a packet switch unit (PSU) link (PSLNK) in a point-to-point network configuration (Formats 1 through 3) or between two end points of a virtual path in a point-to-multipoint ATM network (Formats 4 through 6). Each end point is uniquely addressed with a non-zero PSU community address (CA) within that network.

A PSU link is uniquely identified by the CAs of two PSUs within the point-to-point network, that this PSU link connects. Similarly, a virtual path (VPATH) is uniquely identified by the CAs of two PSUs within the point-to-multipoint ATM network, that this VPATH connects. The near end PSU CA can be entered directly in the input message line or can be translated by the switch from the entered PSU equipment number. However, the PSU link’s or VPATH’s far end PSU CA can not be specified by the PSU equipment number and must always be entered as PSU CA. For gateway PHAs the far subnetwork number is needed to do the loopback test. The test cannot be started from a gateway PHA.

There are two options of the loop back test. The default loop back test is the standard test as described in the GR-1248 ATM specification. This test is useful for checking provisioning between ATM end points through an ATM center-stage switch. This test verifies that the far end point received the loop back cell, and returned the cell within proper time interval. This test will not detect the case where the far end point that returned the ATM loop back cell was not the end point specified by the input command. This could happen if there is a misprovisioned ATM center-stage switch that connects to an ATM end point that can return the loop back cell.

The second option is the "Enhanced" test, which is invoked using the "ENH" parameter. The enhancement option is a non-standard, Lucent-only loop back test that explicitly verifies the virtual path between Lucent PHAs. This test uses the information available at the far end point to overwrite part of the ATM loop back cell "tag" field before sending back the cell. The originating end point validates the received "tag", and outputs the far end point's PSU CA as well as the VPI on which the loop back cell was received. This test can only be properly used between Lucent PSU CA end points.

2. FORMAT

[1] TST:PSLNK=a-b[,ENH];
[2] TST:PSLNK,PSUCA=a,FARCA=b[,ENH];
[3] TST:PSLNK,PSU=c-d,FARCA=b[,ENH];
[4] TST:PSLNK,VPATH=a-b[,FARSN=e][,ENH];
[5] TST:PSLNK,VPATH,PSUCA=a,FARCA=b[,FARSN=e][,ENH];
[6] TST:PSLNK,VPATH,PSU=c-d,FARCA=b[,FARSN=e][,ENH];

3. EXPLANATION OF MESSAGE

a = Near end PSU community address (a non-zero number) of the PSU link or virtual path.

b = Far end PSU community address (a non-zero number) of a PSU link or of a virtual path.
c = Switching module (SM) number.

d = PSU number

e = Far subnetwork number

ENH = Enhancement option for more rigorous verification of the "tag" field in the ATM loop back cell. With this option, the far end point and the virtual path taken by the responding loop back cell are explicitly verified. See above for more complete explanation. This test is only to be used between PSU CA end points.

4. SYSTEM RESPONSE

NG = No good. The request has been denied. The message is valid but the request conflicts with current equipage or status.

PF = Printout follows. Followed by the TST:PSLNK output message.

RL = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

Input Appendix(es):

APP: RANGES

Output Message(s):

TST: PSLNK
TST:PSLNK-C

Software Release: 5E17(1) and later
Command Group: MAINT
Application: 5
Type: Input

1. PURPOSE

Requests an asynchronous transfer mode (ATM) level loop back test between two endpoints of a packet switch unit (PSU) link (PSLNK) in a point-to-point network configuration (Formats 1 through 3) or between two end points of a virtual path in a point-to-multipoint ATM network (Formats 4 through 6). Each endpoint is uniquely addressed with a non-zero PSU community address (CA) within that network.

A PSU link is uniquely identified by the CAs of two PSUs within the point-to-point network, that this PSU link connects. Similarly, a virtual path (VPATH) is uniquely identified by the CAs of two PSUs within the point-to-multipoint ATM network, that this VPATH connects. The near end PSU CA can be entered directly in the input message line or can be translated by the switch from the entered PSU equipment number. However, the PSU link's or VPATH's far end PSU CA can not be specified by the PSU equipment number and must always be entered as PSU CA. When requesting an inter-network loop back test, the far subnetwork number is needed. The test cannot be started from a gateway PHA.

There are two options of the loop back test. The default loop back test is the standard test as described in the GR-1248 ATM specification. This test is useful for checking provisioning between ATM endpoints through an ATM center-stage switch. This test verifies that the far endpoint received the loop back cell, and returned the cell within the proper time interval. This test will not detect the case where the far endpoint that returned the ATM loop back cell was not the endpoint specified by the input message. This could happen if there is a misprovisioned ATM center-stage switch that connects to an ATM end point that can return the loop back cell.

The second option is the "enhanced" test, which is invoked using the "ENH" parameter. The enhancement option is a non-standard, loop back test that explicitly verifies the virtual path between Lucent Technology PHAs. This test uses the information available at the far endpoint to overwrite part of the ATM loop back cell "tag" or "Source ID" field before sending back the cell. The originating endpoint validates the received "tag" or "Source ID" and outputs the far endpoint's PSU CA as well as the far network and VPI/VCI on which the loop back cell was received. This test can only be properly used between PSU CA endpoints.

The delay option can be used to measure the roundtrip time that the ATM loopback cell takes to go between PSU CA endpoints. This time includes the PHA scheduling and processing time as well as the ATM delay time. Note: For each PHA1 endpoint the approximate processing and scheduling time is 3-5 ms. The delay time will be output when the test successfully completes.

The trace option can be used to trace the PSU routing that is used by each PSU CA endpoint. When originating or responding to the original ATM loopback cell, the near PSU will use its own routing data to determine the correct PVC to use. The source and destination PVC types will be output when the test successfully completes.

2. FORMAT

[1] TST:PSLNK=a-b[,ENH];

[2] TST:PSLNK,PSUCA=a,FARCA=b[,ENH];

[3] TST:PSLNK,PSU=c-d,FARCA=b[,ENH];
3. EXPLANATION OF MESSAGE

ENH = Enhancement option for more rigorous verification of the "tag" or "Source ID" field in the ATM loop back cell. With this option, the far endpoint and the virtual path taken by the responding loop back cell are explicitly verified. Refer to the PURPOSE section for more complete explanation. This test is only to be used between PSU CA end points.

DELAY = Perform the same tests as specified in the enhancement option and in addition specifies that the ATM delay time between PSU CA end points be displayed.

TRACE = Perform the same tests as specified in the enhancement option and in addition specifies that a trace of the far PSU CA endpoints routing data be executed.

VC = Virtual channel option specifies that a virtual channel test be executed.

VP = Virtual path option specifies that a virtual path test be executed.

a = Near end PSU community address (a non-zero number) of the PSU link or virtual path.

b = Far end PSU community address (a non-zero number) of a PSU link or of a virtual path.

c = Switching module (SM) number.

d = PSU number.

e = PSU link number.

f = Far subnetwork number.

4. SYSTEM RESPONSE

NG = No good. The request has been denied. The message is valid but the request conflicts with current equipage or status.

PF = Printout follows. Followed by the TST:PSLNK output message.

RL = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

Output Message(s):
TST: PSLNK

Input Appendix(es):

APP: RANGES
TST:PSUPH-FAULT-A

Software Release: 5E14 - 5E15
Command Group: SM
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Requests that the specified software fault be inserted into a packet switch unit (PSU) protocol handler (PH).

WARNING: The user is responsible for any effects on system operation that result from the use of this input message. Use of this message can lead to a service outage. Know the effects of the message before using it.

2. FORMAT

TST:PSUPH=a-b-c-d,FAULT=e[-f[-g...[-n]][,COUNT=o];

3. EXPLANATION OF MESSAGE

a = Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

b = PSU number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

c = Shelf number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

d = Protocol handler number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

e-n = ID number(s) for the desired software fault.

o = Number of times to execute specified test (default is 1).

4. SYSTEM RESPONSE

NA = No acknowledgement. This response is expected due to potential for recovery action.

5. REFERENCES

Input Appendix(es):

APP:RANGES

MCC Display Page(s):
118x (PSU SHELF)
1186 (PSU NETWORK)
1187 (PSU LINK STATUS)
TST:PSUPH-FAULT-B

Software Release: 5E16(1) and later
Command Group: SM
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Requests that the specified software fault be inserted into a packet switch unit (PSU) protocol handler (PH).

WARNING: The user is responsible for any effects on system operation that result from the use of this input message. Use of this message can lead to a service outage. Know the effects of the message before using it.

2. FORMAT

TST:PSUPH=a-b-c-d,FAULT=e[-f[-g...[-n]][,]\[COUNT=o];

3. EXPLANATION OF MESSAGE

  a = Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

  b = PSU number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

  c = Shelf number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

  d = Protocol handler number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

  e-n = ID number(s) for the desired software fault.

  o = Number of times to execute specified test (default is 1).

4. SYSTEM RESPONSE

NA = No acknowledgement. This response is expected due to potential for recovery action.

5. REFERENCES

Input Appendix(es):

APP:RANGES

MCC Display Page(s):
TST:RATE

**Software Release:** 5E14 and later

**Command Group:** CCS

**Application:** 5

**Type:** Input

1. **PURPOSE**

Requests that a rate query be sent to the real time rating system (RTRS) database to verify its operation.

It should be noted that optional fields specified in this message which are not valid for that query type will be ignored. The query request will be processed as if they were not entered.

2. **FORMAT**

TST:RATE=a-b-c-d-e-f-g-h-i[,PTP][,CTYP=j][,ACI][,STYP=k][,DUR=l][,CCL=m][,CCR=n][,CU104][,CMCD=o][,CP104][,BAL=p][,MQD=q][,CRS=r][,API=s][,SC=t][,AO=u][,FNE=v][,SASI=w][,PCCS=x][,FMS][,SRCHTYP1=y-z][,SRCHTYP2=a'-b'][,DATYPE=c'][,PAYCOMP=d'];

3. **EXPLANATION OF MESSAGE**

- **ACI** = Automated call indicator. Absence of this indicates that the call was operator-handled.
- **CP104** = Comparison card 10+4 indicator. Indicates that the comparison card was a 10+4 card. Absence of this implies some other kind of calling card.
- **CU104** = Customer card 10+4 indicator. Indicates that the customer calling card was a 10+4 card. Absence of this implies some other kind of calling card.
- **FMS** = Flat and measured services indicator. Specifies that both flat and measured services rates are requested in the rating reply.
- **PTP** = Person-to-person indicator. Absence of this indicates that the call was station-to-station.
- **a** = The originating ten digit directory number.
- **b** = The terminating directory number. For a U.S. number, this is a ten digit directory number. For an international number, this is the country code followed by the national number.
- **c** = The carrier ID. For an interexchange carrier, this is the four-digit carrier code. For a non-interexchange carrier, use 16383 for the carrier code.
- **d** = Number of days that have elapsed between the start of the current year and the day the call started.
- **e** = Hour of the start time of the call (0 to 23).
- **f** = Minutes of the start time of the call (0 to 59).
- **g** = Seconds of the start time of the call (0 to 59).
- **h** = The query type. Valid value(s):
  - **EC** = End-of-call query.
  - **IC** = Initial coin query.
IN = Interim query.
PLI = Purchase limits initial query.
PLS = Purchase limits subsequent query.
RQ = Rate quote query.

i = The billing class. Valid value(s):
ASP = Automatic charge quotation service (ACQS) sent-paid.
CCB = Calling card billing.
COB = Collect billing.
CSP = Coin sent paid.
NSP = Non-coin/non-ACQS sent paid.
TNB = Third number billing.

j = Call type. Valid value(s):
0M = Zero minus.
0P = Zero plus (default).
1P = One plus.

k = Special type (STYP). Defaults to no special type. Valid value(s):
BLV = Busy line verification.
CC = Call completion.
CCTC = Call completion with time and charge.
DAC = Directory assistance call.
NCN = Non-coin notify.
TAC = Time & charge call.

l = Duration (DUR) of the call in seconds. This is required if the query type is EC, IN or PLS.

m = Country code length (CCL). This is required if the terminating directory number is an international number.

n = Customer credit card (CCRD). This is an optional field for a calling card rate quote, T&C, or purchase limits initial or subsequent query. This is the vendor/issuer ID digits (first 2-7 digits of calling card). If the calling customer's card is a LEC(10+4) card, only 6 digits of the card should be entered. The card will be accepted even if 6 digits are not entered, but the rating results will be incorrect. Otherwise, the number of digits in the vendor/issuer ID should match their corresponding entries in the card recognition tables RC/V View 27.55.

o = Comparison credit card (CMCD). This is an optional field for rate quote differentiation of card service charges queries. This is the vendor/issuer ID digits (first 2-7 digits of comparison card). If the comparison card is a LEC(10+4) card, only 6 digits of the card should be entered. The card will be accepted even if 6 digits are not entered, but the rating results will be incorrect. Otherwise, the number of digits in the vendor/issuer ID should match their corresponding entries in the card recognition tables. If this field is specified, the CCRD field above must also be included in the input message.

p = Purchase limits balance (BAL) in pennies. This field is required if this is an initial purchase limits query request. The range of values is from 0 to 999999 (0-$9999.99).

q = Method of ACQS quote delivery. This is required if the billing class is ASP, the query type is EC or
RQ and the ACQS rate distinction secure feature bit is active. Valid value(s):

- **FAX** = FAX quote.
- **NWA** = Network autoquote.
- **PLA** = Private line autoquote.
- **VCQ** = Voice quote.

- **r** = Card rate specifier (CRS). This is an optional field used to obtain rate quotes for calls billed to special cards. This field should only be entered if the billing class is “Calling card billing”. The absence of this field should be interpreted as card rate = 0 (standard card rates).

- **s** = Access provider identifier (API). This is an optional field used to identify the source carrier for certain types of incoming feature group D (FGD) calls. It must be a valid carrier identification code (CIC). The API is four digits in length (0 to 9999).

- **t** = Service code (SC). This is an optional field used to obtain rate quotes for a specific set of incoming FGD calls requiring access to operator service position system (OSPS) toll and assistance (T&A) features. It is used to identify specific services or billing arrangements based on the back number. The SC is four digits in length (0 to 9999).

- **u** = Automation offering (AO). This is an optional field used to identify the level of automation (type of treatment) associated with a given OSPS 0/00-originated call. Valid value(s):
  - **APS** = Automated position system handled.
  - **NA** = Not applicable (not used by call processing at this time).
  - **OPER** = Operator handled.
  - **SWITCH** = Switch (not used by call processing at this time).

- **v** = Forward number entry (FNE). This is an optional field used to identify who entered the forward number associated with a given OSPS 0/00-originated call. Valid value(s):
  - **CUST** = Customer entered the forward number at the APS.
  - **NA** = Not applicable (not used by call processing at this time).
  - **OPER** = Operator entered the forward number.
  - **SWITCH** = Switch (not used by call processing at this time).

- **w** = Special access service identifier (SASI). This is an optional field used to identify the special access service identifier associated with a special access call handling call. The range of values is from 1 to 10.

- **x** = Prior call completion status (PCCS). This is an optional field used to identify the prior call completion status associated with a special access call handling call. Valid value(s):
  - **NEG** = Negative prior call completion status.
  - **POS** = Positive prior call completion status.

- **y** = Directory Assistance Search Type 1 (SRCHTYP1). This is an optional field used to identify the first search type value of a directory assistance call. The range of values is from 1 to 999.

- **z** = Number of searches for directory assistance search type 1 (SRCHTYP1). This is an optional field (used in conjunction with field y) used to identify the number of searches for directory assistance search type 1 of a directory assistance call. The range of values is from 1 to 999.

- **a** = Directory assistance search type 2 (SRCHTYP2). This is an optional field used to identify the second search type value of a directory assistance call. The range of values is from 1 to 999.
b
\(^1\) = Number of searches for directory assistance search type 2 (SRCHTYP2). This is an optional field (used in conjunction with field a') used to identify the number of searches for directory assistance search type 2 of a directory assistance call. The range of values is from 1 to 999.

c' = Directory assistance type indicator (DATYPE). This is an optional field used to identify the directory assistance type for a directory assistance call. The range of values is from 1 to 20.

d' = AMA - Record ANI II Digits payphone compensable parameter. This is an optional field used to identify if the Payphone Compensable Eligibility module should be appended. With the value of 0, the module is appended and the call is not payphone compensable. With the value of 1, the module is appended and the call is payphone compensable.

4. SYSTEM RESPONSE

NG = No good. Valid value(s):
- AUTOMATION OFFERING REQUIRES THE CALL TYPE FIELD TO BE ZERO MINUS (0M) = The automated service access prompting (ASAP) module is appended when the automation offering field is populated. This module requires the call type field to be populated with zero minus (0M).
- AUTOMATION OFFERING REQUIRES THE FORWARD NUMBER ENTRY FIELD TO BE POPULATED
  = The ASAP module is appended when the automation offering field is populated. This module requires both the automation offering field and the forward number entry field to be populated.
- COMPARISON CARD VENDOR/ISSUER ID INVALID = The number of calling card digits specified for a comparison card is not 2 through 7 digits in the CMCD input field.
- CRS PERMITTED ONLY WITH CARD BILLING CLASS = The card rate specifier expects a billing class of calling card.
- CUSTOMER VENDOR/ISSUER ID INVALID = The number of calling card digits specified for a calling customer is not 2 through 7 digits in the CCRD input field.
- CUSTOMER VENDOR/ISSUER ID MISSING = A comparison card vendor/issuer ID has been specified without indicating a customer vendor/issuer ID in the input message.
- DURATION EXCEEDED = The DUR field for EC and IN query types cannot exceed a value of 12 hours in seconds.
- DURATION MISSING = DUR is required for query type of IN, EC, or PLS. This response is also printed if a duration of zero is specified.
- FEATURE NOT AVAILABLE = The requested action failed. The feature required to process the request is not present in the switch or the given module.
- FLAT AND MEASURED SERVICES (FMS) AND CALLING CARDS (CCRD) ARE MUTUALLY EXCLUSIVE
  = The requested action failed. The flat and measured services (FMS) feature does not work with calling cards.
- FLAT AND MEASURED SERVICES (FMS) REQUIRES THE CALL TYPE FIELD TO BE ONE PLUS (1P)
  = The requested action failed. The flat and measured services (FMS) feature only works when prefix is 1+.
- FLAT AND MEASURED SERVICES (FMS) REQUIRES THE BILL CLASS FIELD TO BE OTHER SPECIAL (NSP)
  = The requested action failed. The flat and measured services (FMS) feature only works when the billing class is non-coin/non-ACQS sent paid.
- FLAT AND MEASURED SERVICES (FMS) REQUIRES THE SPECIAL TYPE FIELD TO BE
NO SPECIAL TYPE
- The requested action failed. The flat and measured services (FMS) feature only works when there is no special type.

FORWARD NUMBER ENTRY REQUIRES THE AUTOMATION OFFERING FIELD TO BE POPULATED
- The ASAP module is appended when the automation offering field is populated. This module requires both the automation offering field and the forward number entry field to be populated. Since the forward number entry field is populated and the automation offering field is not, the query cannot be processed with this lack of information.

METHOD OF QUOTE DELIVERY INVALID
- The MQD field must not be entered if the billing class is not ASP and the ACQS rate distinction secure feature bit is not active.

METHOD OF QUOTE DELIVERY MISSING
- The MQD field must be entered for a billing class of ASP when the ACQS rate distinction secure feature bit is active.

NUMBER OF SEARCHES FOR SEARCH TYPE 1 MISSING
- The number of searches for directory assistance search type 1 must be entered if a value for the first directory assistance search type has been entered.

NUMBER OF SEARCHES FOR SEARCH TYPE 2 MISSING
- The number of searches for directory assistance search type 2 must be entered if a value for the second directory assistance search type has been entered.

ORIGINATING DN
- The originating directory number must be ten digits.

PRIOR CALL COMPLETION STATUS MISSING
- The PCCS field must be entered if a value for the SASI field has been entered.

PURCHASE LIMITS BALANCE OUT OF RANGE
- The BAL field for a PLI query cannot exceed a value of $9999.99 in pennies. This response is also printed if the BAL field is not specified for a PLI rating test query.

PURCHASE LIMITS DURATION EXCEEDED
- The DUR field for a subsequent PLS query cannot exceed a value of 48 hours in seconds.

QUERY TYPE/BILLING CLASS INVALID
- The billing class of ASP requires a query type of EC or RQ when the ACQS rate distinction secure feature bit is active.

SEARCH TYPE 1 MISSING
- The value of the first directory assistance search type must be entered if a value has been entered for the number of searches for directory assistance search type 1.

SEARCH TYPE 2 MISSING
- The value of the second directory assistance search type must be entered if a value has been entered for the number of searches for directory assistance search type 2.

SPECIAL ACCESS SERVICE IDENTIFIER MISSING
- The SASI field must be entered if a value for the PCCS field has been entered.

TERMINATING DN
- The terminating directory number must be either a ten digit U.S. number or a country code and national number with the length of the country code specified using the keyword CCL.

UNABLE TO SEND QUERY
- The query could not be sent to the RTRS database.

PF
- Printout follows. The request has been received. Followed by the TST:RATE output message.

RL
- Retry later. Valid value(s):
  - TEST IN PROGRESS = Another RTRS test is in progress.
  - TOO MANY QUERIES RUNNING = No RATE query IDs are available.

5. REFERENCES
Input Message(s):

EXC:DSTT
TST:BNS
TST:CAS
TST:CCRD
TST:INWATS
TST:NCD

Output Message(s):

EXC:DSTT
TST:BNS
TST:CAS
TST:CCRD
TST:INWATS
TST:NCD
TST:RATE

RC/V View(s):

27.55 (OSPS TELEPHONE CREDIT CARD IDENTIFICATION)
TST:TRK-A

Software Release: 5E14 only
Command Group: TRKLN
Application: 5
Type: Input

1. PURPOSE

Requests automatic operational or transmission tests on individual trunks, a range of trunks in a trunk group, or an entire trunk group. In addition, X.25 access on T1 (XAT) ports and Packet Handler Voice (PHV) speech handler trunks can be tested using this message, with corresponding additional identifiers.

Note: For Cell site and IVT APX trunks, the ECP must be notified before a test can be run.

For the APX trunks only, the trunk status will be changed to OOS before the trunk is tested and the trunk will be restored to its original status when the test is complete. For all others, when the tests are completed, the trunk will be restored to the state that it was in before being tested.

This message cannot be used to run explicit hardware tests. Refer to the DGN:TEN and DGN:DFI input messages for hardware tests of analog and digital trunks, respectively.

Format 1 (TKGMN) allows for a single trunk or a range of trunks in a trunk group to be tested.

Format 2 (TEN) tests a single analog trunk.

Format 3 (DEN) tests a single digital trunk.

Format 4 network equipment number (NEN) tests a single trunk on a digital network unit - synchronous optical network (SONET) (DNU-S).

Format 5 (TG) tests a trunk group.

Format 6 (MLHG) tests a trunk that has multi-line hunt group and member associated with it. Currently this includes XAT ports.

Format 7 (PKTDN) tests a trunk that has a packet directory number associated with it. Currently this includes XAT ports.

Format 8 (SLEN) tests a SLc® line equipment number.

Format 9 (ILEN) tests an integrated digital carrier unit line equipment number.

Format 10 (PSUEN) test a single protocol handler channel. Currently this includes speech handler trunks on PHV ports.

Format 11 (INEN) tests a single digital trunk.

2. FORMAT

[1] TST:TRK,TKGMN=a-b[&c][,PRINT][,RPT=n][,TYPE=o][,OPDN=p][,DUR=q][,BLKSZ=r];
[2] TST:TRK,TEN=d-e-f-g-h[,PRINT][,RPT=n][,TYPE=o][,OPDN=p];
[3] TST:TRK,DEN=d-j-k-l[,PRINT][,RPT=n][,TYPE=o][,OPDN=p][,DUR=q]
3. EXPLANATION OF MESSAGE

Note: Refer to the Acronym section of the Output Messages manual for the full expansion of acronyms shown in the format.

PRINT = Print the output generated from this request on the receive-only printer (ROP). By default, if the request is entered from the Master Control Center (MCC) it prints on the ROP or if the request is entered from a terminal (TTY) other than the MCC the output will then only print on that TTY.

RPT = Repeat the test.

a = Trunk group number.

b = Trunk member number or lower limit of range of trunk group member numbers.

c = Upper limit of range of trunk group member numbers.

d = Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

e = Trunk unit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

f = Service group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

g = Channel board number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

h = Circuit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

j = Digital line and trunk unit (DLTU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
k = Digital facility interface (DFI) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

l = Channel number. If this is a DFI-1, there is only one facility, channels 1-24. If this is a DFI-2, channels 1-24 are associated with facility T1 A and channels 25-48 are associated with facility T1 B. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

m = Trunk group number. Each member of the group will be tested, and output will be reported for each trunk.

n = Number of times to run test. (1-32, default 1). If a value greater than 32 is specified, only 32 tests will be run. The output will be in a form that summarizes the results of all tests run.

o = The type of test to be executed.
Transmission tests (refer to variable ‘z’).

If no test type is specified, the office-defined default operational test type for the trunk group, if one exists, will be run.

The default test for packet switching trunks and XAT ports is an LBKOCU operational test, with a loopback (LBK) termination point at the office channel unit (OCU) interswitch transmission equipment.

Note that the only valid test types for packet switching trunks and XAT ports are LBKOCU and LBKCSU, a LBK termination point at the channel service unit (CSU) interswitch transmission equipment. Requests for any other test type on a packet switching trunk or an XAT port will be rejected.

Operational tests. Valid value(s):
103 = Signal-supervisory test line.
CTX2 = Phase II Centrex test type.
CTX3 = Phase III Centrex test type.
NSYNC = Non-synchronous test line.
PERM = Permanent busy test line.
SYNC = Synchronous test line.
SXS = Step-by-step test type.

p = Digits to be outpulsed for the specified test. If they are not specified, the office-defined default digits for the test type will be used. Note that outpulsing is not applicable during the testing of packet switching trunks. If optional digits are specified, they will be ignored.

q = Duration of digital tests, in seconds (1-3600). Default = 2 seconds (operational test only).

r = Number of consecutive binary digits that are contained in a block (1-64000). Consecutive blocks are transmitted during the test and the number of error-free blocks received from the far end is printed when the test ends.

s = MLHG number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

t = MLHG member number. Refer to the APP:RANGES appendix in the Appendixes section of the
Input Messages manual.

\( u \) = Directory number (DN).

\( w \) = Digital carrier line unit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

\( x \) = Remote terminal (RT) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

\( y \) = RT line number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

\( z \) = Integrated digital carrier unit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

\( a^1 \) = Digital network unit - SONET (DNU-S) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

\( b^1 \) = Data group (DG) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

\( c^1 \) = SONET terminal equipment (STE) facility number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

\( d^1 \) = Synchronous transport signal (STS) facility number. Refer to the APP:RANGES appendix in the Appendixes section of the InputMessages manual.

\( e^1 \) = Virtual tributary group (VTG) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

\( f^1 \) = Virtual tributary member (VTM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

\( g^1 \) = Digital Signal Level 0 (DS0) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

\( h^1 \) = PSU community number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

\( i^1 \) = PSU channel group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

\( j^1 \) = PSU channel group member number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

Exhibit A -- TYPES OF TRANSMISSION TESTS

<table>
<thead>
<tr>
<th>Test Type</th>
<th>Measurement</th>
<th>Expected Level</th>
<th>Filter</th>
<th>Remarks</th>
</tr>
</thead>
<tbody>
<tr>
<td>100 Level</td>
<td></td>
<td>0dBm0</td>
<td>1004Hz</td>
<td>Near end</td>
</tr>
<tr>
<td>100 Noise</td>
<td></td>
<td>--</td>
<td>C-message</td>
<td></td>
</tr>
<tr>
<td>100RL Level</td>
<td></td>
<td>0dBm0</td>
<td>1004Hz</td>
<td>Near end</td>
</tr>
<tr>
<td>100RL Noise</td>
<td></td>
<td>--</td>
<td>C-message</td>
<td></td>
</tr>
<tr>
<td>100RL Echo return loss</td>
<td>Band-limited noise</td>
<td>--</td>
<td></td>
<td></td>
</tr>
<tr>
<td>100RL Singing return loss (low frequency)</td>
<td>Band-limited noise</td>
<td>--</td>
<td></td>
<td></td>
</tr>
<tr>
<td>100RL Singing return loss (high frequency)</td>
<td>Band-limited noise</td>
<td>--</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Test Type</td>
<td>Measurement</td>
<td>Ideal Level</td>
<td>Remarks</td>
<td></td>
</tr>
<tr>
<td>------------</td>
<td>-------------------------</td>
<td>-------------</td>
<td>----------------------------------</td>
<td></td>
</tr>
<tr>
<td>LBK</td>
<td>Bit error rate</td>
<td>0.00E+00</td>
<td>Non-inverting test</td>
<td></td>
</tr>
<tr>
<td>LBKCSU</td>
<td>Error free blocks</td>
<td>errors per bit</td>
<td>line at far end</td>
<td></td>
</tr>
<tr>
<td>LBKCSUCU</td>
<td>Error free blocks</td>
<td>errors per bit</td>
<td>trunks only</td>
<td></td>
</tr>
<tr>
<td>LBKI</td>
<td>Bit error rate</td>
<td>0.00E+00</td>
<td>Inverting test</td>
<td></td>
</tr>
<tr>
<td>LBKINV</td>
<td>Error free blocks</td>
<td>errors per bit</td>
<td>line at far end</td>
<td></td>
</tr>
<tr>
<td>LBKINV</td>
<td>Error free blocks</td>
<td>errors per bit</td>
<td>trunks only</td>
<td></td>
</tr>
<tr>
<td>LBKOCU</td>
<td>Bit error rate</td>
<td>0.00E+00</td>
<td>Packet switched</td>
<td></td>
</tr>
<tr>
<td>LBKOCU</td>
<td>Error free blocks</td>
<td>errors per bit</td>
<td>trunks only</td>
<td></td>
</tr>
<tr>
<td>MANSCRE</td>
<td>Bit error rate</td>
<td>0.00E+00</td>
<td>Manually initiated</td>
<td></td>
</tr>
<tr>
<td>MANSCRE</td>
<td>Error free blocks</td>
<td>errors per bit</td>
<td>non-inverting loopback at far end</td>
<td></td>
</tr>
<tr>
<td>SHCT</td>
<td>Bit error rate</td>
<td>0.00E+00</td>
<td>Speech handler</td>
<td></td>
</tr>
<tr>
<td>SHCT</td>
<td>Error free blocks</td>
<td>errors per bit</td>
<td>trunks only</td>
<td></td>
</tr>
</tbody>
</table>

4. SYSTEM RESPONSE

Note 1: The standard 105 test includes: 105L, 105RN, 105N, and 105NT.
Note 2: The 105RL (return loss) test includes: 105ERL, 105SRL, and 105SHI.
Note 4: The 105ALL test includes the following 105 test line tests: 105L, 105RN, 105N, 105L4, 105L10, 105L28, and 105NT.
Note 5: 102LB test executes 1004 Hz at 0dB transmission and C-message noise filter used in measurement for noise. This test was designed for APX BSSAPS2 and IVT trunks.

Exhibit B -- TYPES OF DIGITAL TESTS
PF = Printout follows. The request has been accepted, and will be followed by a TST:TRK output message.

RL = Retry later. The request has been denied due to the system load. The OP:JOBSTATUS input message can be used to determine if the RL was issued because the maximum number of jobs are active.

5. REFERENCES

Input Message(s):

DGN:DFI
DGN:TEN
OP:JOBSTATUS

Output Message(s):

TST:TRK

Input Appendix(es):

APP:RANGES

Other Manual(s):
235-190-115 Local and Toll System Features
235-190-120 Common Channel Signaling Service Features
235-900-105 Product Specification

RC/V View(s):

5.1 (TRUNK GROUP)
14.1 (AUTO TRUNK TEST)
TST:TRK-B

Software Release: 5E15 only
Command Group: TRKLN
Application: 5
Type: Input

1. PURPOSE

Requests automatic operational or transmission tests on individual trunks, a range of trunks in a trunk group, or an entire trunk group. In addition, X.25 access on T1 (XAT) ports and packet handler voice (PHV) speech handler trunks can be tested using this message, with corresponding additional identifiers.

Note: For Cell site and IVT APX trunks, the ECP must be notified before a test can be run.

For the APX trunks only, the trunk status will be changed to OOS before the trunk is tested and the trunk will be restored to its original status when the test is complete. For all others, when the tests are completed, the trunk will be restored to the state that it was in before being tested.

This message cannot be used to run explicit hardware tests. Refer to the DGN:TEN and DGN:DFI input messages for hardware tests of analog and digital trunks, respectively.

Format 1 (TKGMN) allows for a single trunk or a range of trunks in a trunk group to be tested.

Format 2 (TEN) tests a single analog trunk.

Format 3 (DEN) tests a single digital trunk.

Format 4 network equipment number (NEN) tests a single trunk on a digital network unit - synchronous optical network (SONET) (DNU-S).

Format 5 (TG) tests a trunk group.

Format 6 (MLHG) tests a trunk that has multi-line hunt group and member associated with it. Currently this includes XAT ports.

Format 7 (PKTDN) tests a trunk that has a packet directory number associated with it. Currently this includes XAT ports.

Format 8 (PLTEN) tests a trunk that has a peripheral control and timing (PCT) line and trunk equipment number associated with it.

Format 9 (SLEN) tests a SLC® line equipment number.

Format 10 (ILEN) tests an integrated digital carrier unit line equipment number.

Format 11 (PSUEN) test a single protocol handler channel. Currently this includes speech handler trunks on PHV ports.

Format 12 (INEN) tests a single digital trunk.

2. FORMAT

[1] TST:TRK,TKGMN=a-b[&c][,PRINT][,RPT=n][,TYPE=o][,OPDN=p]
[,DUR=q][,BLKSZ=r];
TST:TRK, TEN=d-e-f-g-h[, PRINT][, RPT=n][, TYPE=o][, OPDN=p];

TST:TRK, DEN=d-j-k-l[, PRINT][, RPT=n][, TYPE=o][, OPDN=p][, DUR=q][, BLKSZ=r];

TST:TRK, NEN=d-a1-b1-c1-d1-e1-f1-g1[, PRINT][, RPT=n][, TYPE=o][, OPDN=p][, DUR=q][, BLKSZ=r];

TST:TRK, TG=m[, PRINT][, RPT=n][, TYPE=o][, OPDN=p][, DUR=q][, BLKSZ=r];

TST:TRK, MLHG=s-t[, PRINT][, RPT=n][, TYPE=o][, DUR=q][, BLKSZ=r];

TST:TRK, PKTDN=u[, PRINT][, RPT=n][, TYPE=o][, DUR=q][, BLKSZ=r];

TST:TRK, PLTEN=d-k1-l1-m1-n1[, PRINT][, RPT=n][, TYPE=o][, DUR=q][, BLKSZ=r];

TST:TRK, SLEN=d-w-x-y[, PRINT][, RPT=n][, TYPE=o][, OPDN=p];

TST:TRK, ILEN=d-z-x-y[, PRINT][, RPT=n][, TYPE=o][, OPDN=p];

TST:TRK, PSUEN=d-h1-i1-j1[, PRINT][, RPT=n][, TYPE=o];

TST:TRK, INEN=d-a1-x-y[, PRINT][, RPT=n][, TYPE=o][, OPDN=p];

3. EXPLANATION OF MESSAGE

Note: Refer to the Acronym section of the Output Messages manual for the full expansion of acronyms shown in the format.

PRINT = Print the output generated from this request on the ROP. By default, if the request is entered from the Master Control Center (MCC) it prints on the ROP or if the request is entered from a terminal (TTY) other than the MCC the output will then only print on that TTY.

RPT = Repeat the test.

a = Trunk group number.

b = Trunk member number or lower limit of range of trunk group member numbers.

c = Upper limit of range of trunk group member numbers.

d = Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

e = Trunk unit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

f = Service group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

g = Channel board number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

h = Circuit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
= Digital line and trunk unit (DLTU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

k = Digital facility interface (DFI) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

l = Channel number. If this is a DFI-1, there is only one facility, channels 1-24. If this is a DFI-2, channels 1-24 are associated with facility T1 A and channels 25-48 are associated with facility T1 B. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

m = Trunk group number. Each member of the group will be tested, and output will be reported for each trunk.

n = Number of times to run test. (1-32, default 1).

If a value greater than 32 is specified, only 32 tests will be run. The output will be in a form that summarizes the results of all tests run.

o = The type of test to be executed.

Transmission tests (refer to Exhibit A).

If no test type is specified, the office-defined default operational test type for the trunk group, if one exists, will be run.

The default test for packet switching trunks and XAT ports is an LBKOCU operational test, with a loopback (LBK) termination point at the office channel unit (OCU) interswitch transmission equipment.

Note that the only valid test types for packet switching trunks and XAT ports are LBKOCU and LBKCSU, a LBK termination point at the channel service unit (CSU) interswitch transmission equipment. Requests for any other test type on a packet switching trunk or an XAT port will be rejected.

Operational tests. Valid value(s):

103 = Signal-supervisory test line.
CTX2 = Phase II Centrex test type.
CTX3 = Phase III Centrex test type.
NSYNC = Non-synchronous test line.
PERM = Permanent busy test line.
SYNC = Synchronous test line.
SXS = Step-by-step test type.

p = Digits to be outpulsed for the specified test. If they are not specified, the office-defined default digits for the test type will be used. Note that outpulsing is not applicable during the testing of packet switching trunks. If optional digits are specified, they will be ignored.

q = Duration of digital tests, in seconds (1-3600). Default = 2 seconds (operational test only).

r = Number of consecutive binary digits that are contained in a block (1-64000). Consecutive blocks are transmitted during the test and the number of error-free blocks received from the far end is printed when the test ends.

s = MLHG number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
Messages manual.

\[
t = \text{MLHG member number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.}
\]

\[
u = \text{Directory number (DN).}
\]

\[
w = \text{Digital carrier line unit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.}
\]

\[
x = \text{Remote terminal (RT) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.}
\]

\[
y = \text{RT line number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.}
\]

\[
z = \text{Integrated digital carrier unit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.}
\]

\[
a^1 = \text{Digital network unit - SONET (DNU-S) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.}
\]

\[
b^1 = \text{Data group (DG) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.}
\]

\[
c^1 = \text{SONET terminal equipment (STE) facility number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.}
\]

\[
d^1 = \text{Synchronous transport signal (STS) facility number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.}
\]

\[
e^1 = \text{Virtual tributary group (VTG) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.}
\]

\[
f^1 = \text{Virtual tributary member (VTM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.}
\]

\[
g^1 = \text{Digital Signal Level 0 (DS0) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.}
\]

\[
h^1 = \text{PSU community number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.}
\]

\[
i^1 = \text{PSU channel group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.}
\]

\[
j^1 = \text{PSU channel group member number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.}
\]

\[
k^1 = \text{PCT line and trunk unit (PLTU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.}
\]

\[
l^1 = \text{PCT facility interface (PCTFI) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.}
\]

\[
m^1 = \text{Tributary number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.}
\]
Messages manual.

\[ n^1 = \text{Channel number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.} \]

### Exhibit A: TYPES OF TRANSMISSION TESTS

<table>
<thead>
<tr>
<th>Test Type</th>
<th>Measurement</th>
<th>Expected Level</th>
<th>Filter</th>
<th>Remarks</th>
</tr>
</thead>
<tbody>
<tr>
<td>100</td>
<td>Level</td>
<td>0dBm0</td>
<td>1004Hz</td>
<td>Near end</td>
</tr>
<tr>
<td>100RL</td>
<td>Level</td>
<td>0dBm0</td>
<td>1004Hz</td>
<td>Near end</td>
</tr>
<tr>
<td>100RL</td>
<td>Noise</td>
<td>--</td>
<td>C-message</td>
<td>--</td>
</tr>
<tr>
<td>100RL</td>
<td>Singing return loss (low frequency)</td>
<td>Band-limited noise</td>
<td>--</td>
<td></td>
</tr>
<tr>
<td>100RL</td>
<td>Singing return loss (high frequency)</td>
<td>Band-limited noise</td>
<td>--</td>
<td></td>
</tr>
<tr>
<td>100ERL</td>
<td>Level</td>
<td>0dBm0</td>
<td>1004Hz</td>
<td>Near end</td>
</tr>
<tr>
<td>100SRL</td>
<td>Level</td>
<td>0dBm0</td>
<td>1004Hz</td>
<td>Near end</td>
</tr>
<tr>
<td>100SRL</td>
<td>Noise</td>
<td>--</td>
<td>C-message</td>
<td>--</td>
</tr>
<tr>
<td>100SRL</td>
<td>Singing return loss (low frequency)</td>
<td>Band-limited noise</td>
<td>--</td>
<td></td>
</tr>
<tr>
<td>100SHI</td>
<td>Level</td>
<td>0dBm0</td>
<td>1004Hz</td>
<td>Near end</td>
</tr>
<tr>
<td>100SHI</td>
<td>Noise</td>
<td>--</td>
<td>--</td>
<td>--</td>
</tr>
<tr>
<td>100SHI</td>
<td>Singing return loss (high frequency)</td>
<td>Band-limited noise</td>
<td>C-message</td>
<td></td>
</tr>
<tr>
<td>102LB</td>
<td>Level</td>
<td>0dBm0</td>
<td>1004Hz</td>
<td>Both ends</td>
</tr>
<tr>
<td>102</td>
<td>Noise</td>
<td>--</td>
<td>C-message</td>
<td>--</td>
</tr>
<tr>
<td>10SALL</td>
<td>--</td>
<td>--</td>
<td>--</td>
<td>All 105 &amp; CSTS not run</td>
</tr>
<tr>
<td>10SL</td>
<td>Level</td>
<td>0dBm0</td>
<td>1004Hz</td>
<td>Both ends</td>
</tr>
<tr>
<td>105RN</td>
<td>Noise</td>
<td>--</td>
<td>C-message</td>
<td>Near end</td>
</tr>
<tr>
<td>105N</td>
<td>Noise</td>
<td>--</td>
<td>C-message</td>
<td>Far end</td>
</tr>
<tr>
<td>105L4</td>
<td>Level</td>
<td>-16dBm0</td>
<td>404Hz</td>
<td>Both ends</td>
</tr>
<tr>
<td>105L10</td>
<td>Level</td>
<td>-16dBm0</td>
<td>2804Hz</td>
<td>Both ends</td>
</tr>
<tr>
<td>105L28</td>
<td>Level</td>
<td>-16dBm0</td>
<td>2804Hz</td>
<td>Both ends</td>
</tr>
<tr>
<td>105NT</td>
<td>Noise with tone</td>
<td>--</td>
<td>1004Hz notch</td>
<td>Both ends</td>
</tr>
<tr>
<td>105ERL</td>
<td>Echo return loss</td>
<td>Band-limited noise</td>
<td>--</td>
<td>Both ends</td>
</tr>
<tr>
<td>105SRL</td>
<td>Singing return loss (low frequency)</td>
<td>Band-limited noise</td>
<td>--</td>
<td>Both ends</td>
</tr>
<tr>
<td>105SHI</td>
<td>Singing return loss (high frequency)</td>
<td>Band-limited noise</td>
<td>--</td>
<td>Both ends</td>
</tr>
<tr>
<td>106</td>
<td>Far to near loss</td>
<td>0dBm0</td>
<td>--</td>
<td>TR looped</td>
</tr>
<tr>
<td>106</td>
<td>Near to far loss</td>
<td>--</td>
<td>--</td>
<td>to T1 R1</td>
</tr>
<tr>
<td>CONT</td>
<td>Voice path assurance test tones and levels are trunk dependent.</td>
<td>--</td>
<td>--</td>
<td>CCS trunks only</td>
</tr>
</tbody>
</table>

Note 1: The standard 105 test includes: 105L, 105RN, 105N, and 105NT.

Note 2: The 105RL (return loss) test includes: 105ERL, 105SRL, and 105SHI.


Note 4: The 105ALL test includes the following 105 test line tests: 105L, 105RN, 105N, 105L4, 105L10, 105L28, and 105NT.

Note 5: 102LB test executes 1004 Hz at 0dB transmission and C-message noise filter used in measurement for noise. This test was designed for APX BSSAPS2 and IVT trunks.

### Exhibit B: TYPES OF DIGITAL TESTS

<table>
<thead>
<tr>
<th>Test Type</th>
<th>Measurement</th>
<th>Ideal Level</th>
<th>Remarks</th>
</tr>
</thead>
<tbody>
<tr>
<td>LBK</td>
<td>Bit error rate</td>
<td>0.00E 00</td>
<td>Non-inverting test</td>
</tr>
</tbody>
</table>
4. SYSTEM RESPONSE

PF  = Printout follows. The request has been accepted, and will be followed by a TST:TRK output message.

RL  = Retry later. The request has been denied due to the system load. The OP:JOBSTATUS input message can be used to determine if the RL was issued because the maximum number of jobs are active.

5. REFERENCES

Input Message(s):

DGN:DFI
DGN:TEN
OP:JOBSTATUS

Output Message(s):

TST:TRK

Input Appendix(es):

APP:RANGES

Other Manual(s):

235-190-115  Local and Toll System Features
235-190-120  Common Channel Signaling Service Features
235-900-113  Product Specification

RC/V View(s):

5.1 (TRUNK GROUP)
14.1 (AUTO TRUNK TEST)
TST:TRK-C

Software Release: 5E16(1) and later
Command Group: TRKLN
Application: 5
Type: Input

1. PURPOSE

Requests automatic operational or transmission tests on individual trunks, a range of trunks in a trunk group, or an entire trunk group. In addition, X.25 access on T1 (XAT) ports and packet handler voice (PHV) speech handler trunks can be tested using this message, with corresponding additional identifiers.

Note: For Cell site and IVT APX trunks, the ECP must be notified before a test can be run.

For the APX trunks only, the trunk status will be changed to OOS before the trunk is tested and the trunk will be restored to its original status when the test is complete. For all others, when the tests are completed, the trunk will be restored to the state that it was in before being tested.

This message cannot be used to run explicit hardware tests. Refer to the DGN:TEN and DGN:DFI input messages for hardware tests of analog and digital trunks, respectively.

Format 1 (TKGMN) allows for a single trunk or a range of trunks in a trunk group to be tested.
Format 2 (TEN) tests a single analog trunk.
Format 3 (DEN) tests a single digital trunk.
Format 4 network equipment number (NEN) tests a single trunk on a digital network unit - synchronous optical network (SONET) (DNU-S).
Format 5 tests a trunk group.
Format 6 tests a trunk that has multi-line hunt group and member associated with it. Currently this includes XAT ports.
Format 7 tests a trunk that has a packet directory number associated with it. Currently this includes XAT ports.
Format 8 tests a trunk that has a peripheral control and timing (PCT) line and trunk equipment number associated with it.
Format 9 tests a SLC® line equipment number.
Format 10 tests an integrated digital carrier unit line equipment number.
Format 11 tests a single protocol handler channel. Currently this includes speech handler trunks on PHV ports.
Format 12 tests a single digital trunk.
Format 13 tests a virtual packet trunk.
Format 14 tests an optical interface unit equipment number.

2. FORMAT

[1] TST:TRK,TKGMN=a-b[&c][,PRINT][,RPT=n][,TYPE=o][,OPDN=p]
[,DUR=q][,BLKSZ=r][,CAMP=r1];

[2] TST:TRK,TEN=d-e-f-g-h[,PRINT][,RPT=n][,TYPE=o][,OPDN=p][,CAMP=r1];

[3] TST:TRK,DEN=d-j-k-l[,PRINT][,RPT=n][,TYPE=o][,OPDN=p][,DUR=q]
[,BLKSZ=r][,CAMP=r1];

[4] TST:TRK,NEN=d-a1-b1-c1-d1-e1-f1-g1[,PRINT][,RPT=n][,TYPE=o]
[,OPDN=p][,DUR=q][,BLKSZ=r][,CAMP=r1];

[5] TST:TRK,TG=m[,PRINT][,RPT=n][,TYPE=o][,OPDN=p][,DUR=q][,BLKSZ=r]
[,CAMP=r1];

[6] TST:TRK,MLHG=s-t[,PRINT][,RPT=n][,TYPE=o][,DUR=q][,BLKSZ=r][,CAMP=r1];

[7] TST:TRK,PKTDN=u[,PRINT][,RPT=n][,TYPE=o][,DUR=q][,BLKSZ=r][,CAMP=r1];

[8] TST:TRK,PLTEN=d-a1-x-y[,PRINT][,RPT=n][,TYPE=o][,DUR=q][,BLKSZ=r]
[,CAMP=r1];

[9] TST:TRK,SLEN=d-w-x-y[,PRINT][,RPT=n][,TYPE=o][,OPDN=p][,CAMP=r1];

[10] TST:TRK,ILEN=d-z-x-y[,PRINT][,RPT=n][,TYPE=o][,OPDN=p][,CAMP=r1];

[11] TST:TRK,PSUEN=d-h1-l1-j1-k1[,PRINT][,RPT=n][,TYPE=o][,CAMP=r1];

[12] TST:TRK,INEN=d-a1-x-y[,PRINT][,RPT=n][,TYPE=o][,OPDN=p][,CAMP=r1];

[13] TST:TRK,VTRK=d-p1-q1[,PRINT][,RPT=n][,TYPE=o][,OPDN=p][,DUR=q]
[,BLKSZ=r][,CAMP=r1];

[14] TST:TRK,OIUEN=d-s1-t1-u1-d1-e1-f1-g1[,PRINT][,RPT=n][,TYPE=o][,OPDN=p]
[,DUR=q][,BLKSZ=r][,CAMP=r1];

3. EXPLANATION OF MESSAGE

Refer to the Acronym section of the Output Messages manual for the full expansion of acronyms shown in the format.

PRINT = Print the output generated from this request on the ROP. By default, if the request is entered from the Master Control Center (MCC) it prints on the ROP or if the request is entered from a terminal (TTY) other than the MCC the output will then only print on that TTY.

RPT = Repeat the test.

a = Trunk group number.

b = Trunk member number or lower limit of range of trunk group member numbers.

c = Upper limit of range of trunk group member numbers.

d = Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
e = Trunk unit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

f = Service group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

g = Channel board number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

h = Circuit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

j = Digital line and trunk unit (DLTU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

k = Digital facility interface (DFI) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

l = Channel number. If this is a DFI-1, there is only one facility, channels 1-24. If this is a DFI-2, channels 1-24 are associated with facility T1 A and channels 25-48 are associated with facility T1 B. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

m = Trunk group number. Each member of the group will be tested, and output will be reported for each trunk.

n = Number of times to run test. (1-32, default 1).

If a value greater than 32 is specified, only 32 tests will be run. The output will be in a form that summarizes the results of all tests run.

o = The type of test to be executed.

Transmission tests. Refer to the APP:TRANS-TESTS appendix in the Appendixes section of the Input Messages manual.

If no test type is specified, the office-defined default operational test type for the trunk group, if one exists, will be run.

The default test for packet switching trunks and XAT ports is an LBKOCU operational test, with a loopback (LBK) termination point at the office channel unit (OCU) interswitch transmission equipment.

Note that the only valid test types for packet switching trunks and XAT ports are LBKOCU and LBKCSU, a LBK termination point at the channel service unit (CSU) interswitch transmission equipment. Requests for any other test type on a packet switching trunk or an XAT port will be rejected.

Operational tests. Valid value(s):

103 = Signal-supervisory test line.
CTX2 = Phase II Centrex test type.
CTX3 = Phase III Centrex test type.
NSYNC = Non-synchronous test line.
PERM = Permanent busy test line.
SYNC = Synchronous test line.
SXS = Step-by-step test type.
p = Digits to be outpulsed for the specified test. If they are not specified, the office-defined default digits for the test type will be used. Note that outpulsing is not applicable during the testing of packet switching trunks. If optional digits are specified, they will be ignored.

q = Duration of digital tests, in seconds (1-3600). Default = 2 seconds (operational test only).

r = Number of consecutive binary digits that are contained in a block (1-64000). Consecutive blocks are transmitted during the test and the number of error-free blocks received from the far end is printed when the test ends.

s = MLHG number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

t = MLHG member number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

u = Directory number (DN).

w = Digital carrier line unit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

x = Remote terminal (RT) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

y = RT line number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

z = Integrated digital carrier unit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

a¹ = Digital network unit - SONET (DNU-S) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

b¹ = Data group (DG) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

c¹ = SONET terminal equipment (STE) facility number.

d¹ = Synchronous transport signal (STS) facility number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

e¹ = Virtual tributary group (VTG) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

f¹ = Virtual tributary member (VTM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

g¹ = Digital Signal Level 0 (DS0) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

h¹ = PSU unit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

i¹ = PSU shelf number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
\( j \) = PSU channel group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

\( k \) = PSU channel group member number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

\( l \) = PCT line and trunk unit (PLTU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

\( m \) = PCT facility interface (PCTFI) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

\( n \) = Tributary number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

\( o \) = Channel number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

\( p \) = Virtual trunk facility number.

\( q \) = Virtual trunk channel number.

\( r \) = Camp-on (CAMP) time (15-3600). The test camps-on for the time specified (in seconds), waiting for the required resources to become available, at which time testing may proceed. If the resources do not become available in the specified time, the test is aborted.

\( s \) = Optical interface unit (OIU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

\( t \) = Protection group (PG) number.

\( u \) = OC-3 STE number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

### 4. SYSTEM RESPONSE

**PF**

= Printout follows. The request has been accepted, and will be followed by a TST:TRK output message.

**RL**

= Retry later. The request has been denied due to the system load. The OP:JOBSTATUS input message can be used to determine if the RL was issued because the maximum number of jobs are active.

### 5. REFERENCES

Input Message(s):

- DGN:DFI
- DGN:TEN
- OP:JOBSTATUS

Output Message(s):
TST: TRK

Input Appendix(es):

APP: DIG-TESTS
APP: RANGES
APP: TRANS-TESTS

Other Manual(s):
235-190-115   Local and Toll System Features
235-200-115   CNI Common Channel Signaling
235-200-116   Signaling Gateway Common Channel Signaling
235-900-113   Product Specification

RC/V View(s):
5.1   TRUNK GROUP
14.1   AUTO TRUNK TEST
TST:UMBIL

Software Release: 5E14 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Requests a test (connectivity exercise) of the connection of a host umbilical (UMBIL).

A UMBIL is a host umbilical between a host switching module (HSM) and an RSM. The test does not interfere with stable calls.

2. FORMAT

TST:UMBIL=a-b-c;

3. EXPLANATION OF MESSAGE

a  = Host switching module (HSM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

b = Remote switching module (RSM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

c = Host umbilical (UMBIL) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

NG  = No good. The message syntax is valid, but the request conflicts with current system or equipment status.

PF = Printout follows. A TST:UMBIL output message follows in response to the request.

RL = Retry later. The request cannot be executed now due to unavailable system resources.

5. REFERENCES

Input Message(s):

RMV:UMBIL
RST:UMBIL

Output Message(s):

TST:UMBIL

Input Appendix(es):

APP: RANGES
Other Manual(s):
235-105-210  *Routine Operations and Maintenance*
235-105-220  *Corrective Maintenance*

MCC Display Page(s):

1740.xxx,yyy (HOST UMBILICALS (1 - 10))
1741.xxx,yyy (HOST UMBILICALS (11 - 20))
TST:VFL

**Software Release:** 5E14 and later  
**Command Group:** CCS  
**Application:** 5  
**Type:** Input

1. PURPOSE

Requests an automatic voice frequency link (VFL) test for a specified common channel signaling (CCS) link.

Each 2.4 or 4.8 kbps CCS link consists of a pair of VFLs; one active and the other standby. When a VFL test is requested for a CCS link, the test will always be run for the standby VFL. The CCS link to test is specified by its group number and member number.

2. FORMAT

TST:VFL,GRP=a,MEM=b;

3. EXPLANATION OF MESSAGE

- **a** = Group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
- **b** = Member number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

- **NG** = No good. The request was unsuccessful because:
  - Invalid group number was specified.
  - Invalid member number was specified.
  - Link is not 2.4 or 4.8 kbps.
  - Link is unequipped.
  - Link is manual out-of-service.

- **PF** = Printout follows. The request has been accepted and an output message will follow.

5. REFERENCES

Output Message(s):

- TST:VFL

Output Appendix(es):

- APP:RANGES

MCC Display Page(s):

- CNI FRAME AND CCS STATUS DISPLAY PAGE
TST:WLINE

Software Release: 5E14 and later
Command Group: TRKLN
Application: AEWNC
Type: Input

1. PURPOSE

Requests that the continuity of analog lines terminated on the W-card of WNC be tested and printed out.

2. FORMAT

TST:WLINE[,DN=a|,LCKEN=b-c-d-e-f|,ALL]

3. EXPLANATION OF MESSAGE

a = The DN number of the analog line being tested.
b = Switching module (SM) number.
c = Integrated services line unit (ISLU2) number.
d = Line group number.
e = Line card number.
f = Circuit number.

4. SYSTEM RESPONSE

RL = Retry later. May also include:
    - PREVIOUS TEST STILL RUNING

PF = Printout follows. The request has been accepted and is followed by an TST:WLINE output message.

5. REFERENCES

Output Message(s): 

Output Appendix(es): 

Other Manual(s):
230-701-100 Air ExtensionSM Reference Guide
235-701-120 Air ExtensionSM User Guide
**TST:WSAUTO**

*Software Release:* 5E14 and later  
*Command Group:* TRKLN  
*Application:* 5  
*Type:* Input

### 1. PURPOSE

Requests trunk and line work station (TLWS) automatic tests. The line or trunk to be tested must have been seized using the CONN:WSLINE, CONN:WSTRK, or CONN:WSIC input messages.

**Note:** This input message is the message interface between the line/trunk testing software and the TLWS numeric menu options (refer to MCC display page 160). Except for a request to remove a port from service (RST) or perform an utility call trace (UCT) the port being tested at the TLWS test position is released prior to performing the requested test. The test results from this input message are displayed only on the receive-only printer (ROP) Direct entry of this input message is not recommended. Instead, use the TLWS menu options or one of the following input messages: DGN:AIULC, DGN:TEN, DGN:ISLULC, DGN:ISLULCKT, EXC:LIT, EXC:ALE, RMV:LINE, RMV:TRK, RST:LINE, RST:TRK, TRC:UTIL, TST:DSL, or TST:TRK.

Format 1 runs the line insulation test (LIT) and diagnostics.

Format 2 is used to remove or restore the port to service. A remove from service request does not release the port from the test position.

Format 3 performs tests on digital subscriber lines (DSL).

Format 4 runs an automatic test call on a trunk.

Format 5 generates an automatic line evaluation report.

Format 6 generates an UCT on the port seized or camped on at the test position. The call trace is performed without releasing the port from the test position.

### 2. FORMAT

1. \( \text{TST:WSAUTO, TP=a, \{LIT|DGN\};} \)
2. \( \text{TST:WSAUTO, TP=a, \{RMV|RST\}[e][,UCL];} \)
3. \( \text{TST:WSAUTO, TP=a, TSTDSL[,CHAN=e|ALL][,TERM=f][,TEST=k[-o]} \)
\( [,DUR=g][,BLKSZ=h][,MODE=i][,ABER=j][,PS][,UCL][]\);
4. \( \text{TST:WSAUTO, TP=a, TSTTRK[,TYPE=c][,OPD=d][,DUR=g][,BLKSZ=h][];} \)
5. \( \text{TST:WSAUTO, TP=a, ALE=l,m[,n];} \)
6. \( \text{TST:WSAUTO, TP=a, UCT;} \)

### 3. EXPLANATION OF MESSAGE

**Note:** Refer to the Acronym section of the Input Messages manual for the full expansion of acronyms shown in the format.
ALL = Run the test on all the channels of the DSL.

PS = Run a loop-back test on a packet switched channel, or on a channel used to support on-demand packet switching using the assigned PH. The CHAN parameter is mandatory for this test to be executed.

UCL = When used with RST, restore the selected trunk or line unconditionally; do not run diagnostic tests.

When used with TSTDSL on a selected ANS® U-DSL, execute the test unconditionally and do not interrupt when the NT1 goes into test mode.

V = Output all intermediate test results (that is, output is verbose). This option is useful when performing CRC or fault sectionalization tests.

a = TLWS test position (TP) number.

c = Type of automatic trunk test to be run (transmission and operation tests are available as listed below). If no test is specified, the office-defined default operational test type for the trunk group is run, if one exists.

Transmission tests (also, refer to Exhibit A of the TST:TRK message). Valid value(s):

<table>
<thead>
<tr>
<th>Value</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>100</td>
<td>Balance.</td>
</tr>
<tr>
<td>102</td>
<td>Milliwatt.</td>
</tr>
<tr>
<td>102LB</td>
<td>Milliwatt loopback.</td>
</tr>
<tr>
<td>103</td>
<td>Signal-supervisory test line.</td>
</tr>
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<td>104</td>
<td>Transmission measure and voice checking.</td>
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<td>Automatic transmission measuring.</td>
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<tr>
<td>106</td>
<td>Far to near loss and near to far loss transmission measurement.</td>
</tr>
<tr>
<td>CONT</td>
<td>Voice path assurance/continuity test line for common channel signaling (CCS) trunks.</td>
</tr>
<tr>
<td>LBK</td>
<td>Digital loopback test.</td>
</tr>
<tr>
<td>LBKCU</td>
<td>Loopback test at the office channel unit (OCU) interswitch transmission equipment (for packet switching trunks only).</td>
</tr>
<tr>
<td>LBKINV</td>
<td>Inverted digital loopback test.</td>
</tr>
<tr>
<td>LBKSHT</td>
<td>Loopback test, for a speech handler trunk, sends the digital bit stream in to the speech handler (SH). The SH sends the bit stream back in the same format. This is valid for speech handler trunks only.</td>
</tr>
<tr>
<td>MANSRCE</td>
<td>Loopback test, for a packet-switching digital trunk sends the digital bit stream out to the far end switch. The far end switch sends the digital bit stream back in the same format.</td>
</tr>
</tbody>
</table>

Note: The far end switch must manually set the loopback prior to running this test.

Valid for packet switching trunks only.

Operational tests. Valid value(s):

<table>
<thead>
<tr>
<th>Value</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>CTX2</td>
<td>Phase II Centrex test type.</td>
</tr>
<tr>
<td>CTX3</td>
<td>Phase III Centrex test type.</td>
</tr>
</tbody>
</table>
d  = Digits to be outpulsed, which may be specified when the test type is specified. If not specified, the office-defined default digits for the test type are used.

e  = Channel (CHAN) of the DSL. Valid value(s):
   B1  = Run the test on the B1-channel.
   B2  = Run the test on the B2-channel.
   D   = Run the test on the D-channel.

f  = Termination (TERM) point of the automatic digital subscriber line (DSL) test. Valid value(s):
   CUn = Loopback at a specified BRITE CU. This loopback is valid only for U-DSLs. For ANSI® U-DSLs, \( n \) = 1 through 6. For AMI U-DSLs, \( n \) = 1 through 4.
   EXT = Loopback at an external connection to the far-end office. The digital bit stream is sent out and it is the far-end offices' option to send the bits back in the sent format or in an inverted format.
   LT  = Loopback at the line termination. Default value for DSL (DSL only).
   NT1 = Loopback at the network termination (NT1). Default value for U-DSL (U-DSL only).
   PH  = Loopback in the protocol handler (DSL only).

g  = Number of seconds that the automatic digital test will be run. For trunk tests, the duration ranges from 1 - 3600 and defaults to 2 seconds. For DSL tests, the duration ranges from 0 - 3600 and defaults to 20 seconds. If the test duration is 0 and TEST=CRC, only LT reads will be performed and delivered on output. Attempting to run loopback tests for zero duration will result in the test running for 1 second.

h  = Number of bits in the blocks to be sent (1 - 64000; default is 56000 for DSLs, 64000 for digital trunks).

i  = Mode of TSTDSL test. Valid value(s):
   SECT = Fault sectionalization test. This option requests loopback tests to sectionalize the fault beginning with the TERM specified below. The sectionalization mode of testing is used to automatically isolate the operative/faulty portion of a DSLs digital path or transmission loop. This is accomplished by dividing the path and loop into a finite number of testable sections that are delineated by the available LPBK terminations. The maximum number of test sections possible is 10 for ANSI® U-DSLs, 8 for AMI U-DSLs and 3 for T-DSLs.
   SEQ  = Digital loopback test in sequential mode. This will result in a loopback test's being performed at the specified loopback point and at every loopback point in toward the switch.

j  = Acceptable bit error rate (0 - 9, default 6) for circuit switched loopbacks. The value 1 - 9 is an absolute value of the exponent of the error rate accepted \((10^{-1} - 10^{-9})\). One presents a less stringent error rate specification. Nine represents the most strict error rate. If ABER=0 (valid only with the SECT option) each termination will be tested regardless of the error rate detected.
Test type of TSTDSL. Valid value(s):
- **CRC** = Corrupt cyclic redundancy check (CRC) test. This test causes CRC errors which will increment the level 1 error counts. This test is valid only on ANSI® U-DSL.
- **MSMTCH** = Manual line termination (LT)/network termination (NT) mismatch test. This test detects layer 1 mismatch between the type of U-card and NT or the first BRITE CU. This test is valid only on U-DSL.

Automatic line evaluation (ALE) session type. Valid value(s):
- **ALL** = All of the below (default).
- **LEVEL1** = Applies to U-DSL layer 1 error counts. For ANSI® U-cards, the counts are upstream and downstream block errors (BE), errored seconds (ES) and severe errored seconds (SES). For AMI U-cards, the count is upstream errored seconds.
- **LEVEL2** = Applies to all integrated services digital network (ISDN) protocol channel frame error information.
- **PER** = Applies to the protocol error history for an ISDN protocol channel.

ALE report/reset option. Valid value(s):
- **REPT** = Retrieve and report the error counts (default).
- **RESET** = Reset the error counts and clear the PER tables. The current values of the error counts will be output before being cleared.
- **SRESET** = Silently reset the error counts. Operates exactly like the RESET option except that current values will not be output.

Set of level 1 error counts. This option is valid only on ANSI® U-DSL. Valid value(s):
- **ALL** = All of above counts.
- **CU** = When the CU option is not followed by a specific channel unit number (that is, CU only), then counts for all populated channel units will be printed. Due to the potential time required to collect data for a CU, this option is only allowed for single port ALE requests.
- **CUn** = Current and previous interval counts stored on a specified BRITE CU (‘n’ is 1 through 6).
- **CURR** = Current hour, interval, and day counts (default).
- **DAY** = Current and previous day counts (except BE).
- **HIST** = Recent interval history (ES only).
- **HOUR** = Current and previous hour counts.
- **INT** = Current and previous interval counts.
- **LCCU** = Current and previous hour counts, and current and previous interval counts on all BRITE CUs.
- **PREV** = Previous hour, interval, and day counts.

If ‘k’ = CRC, test direction.

The IDCU CRC test is run in one direction at a time and this direction may be a specified value to the CRC parameter. Valid value(s):
- **DWN** = Perform a CRC test using the downstream registers of the LT on the U-DSL, reporting only downstream PM results on output.
- **UP** = Perform a CRC test using the upstream registers of the LT on the U-DSL, reporting only upstream PM results on output.
The test direction values are not used by RISLU/ISLU DSLs, as these DSLs always run the CRC test in both directions.

4. SYSTEM RESPONSE

NG  = No good. Refer to the APP:TLWS appendix in the Appendixes section of the Output Messages manual for an explanation of TLWS error responses.

OK  = Good. The remove of the port from service was performed.

PF  = Printout follows.

5. REFERENCES

Input Message(s):

CONN:WSIC
CONN:WSLINE
CONN:WSTRKR
DGN:AIULC
DGN:ISLULC
DGN:ISLULCKT
DGN:TEN
EXC:ALE
EXC:LIT
RLS:WSTST
RMV:LINE
RMV:TRK
RST:LINE
RST:TRK
SET:WSPOS
TRC:UTIL
TST:DSL
TST:TRK

Output Message(s):

DGN:AIULC
DGN:ISLULC
DGN:ISLULCKT
DGN:TEN
EXC:ALE
EXC:LIT
RST:LINE
RST:TRK
TST:TRK

Output Appendix(es):

APP:TLWS

Other Manual(s):
MCC Display Page(s):

160 (TRUNK & LINE MAINT)

RC/V View(s):

14.1 (AUTO TRUNK TEST)
TST:WSCPE

Software Release: 5E14 and later
Command Group: TRKLN
Application: 5
Type: Input

1. PURPOSE

Requests a test of customer premises equipment (CPE) connected to a digital subscriber line (DSL) at the trunk and line work station (TLWS) test position (TP) number that was seized using a TLWS seize line input message. A TP must be selected before requesting the test. Refer to the SET:WSPOS input message.

Note: This input message is the message interface between the line/trunk testing software and the TLWS numeric menu options (refer to the MCC Display Page 160). The test results from this input message are displayed on a TLWS screen and are not printed on the ROP. Direct input of this message is not allowed. Instead, use the TST:DSL input message for testing.

The RMV and RST tests can be run on custom multi-point (MP) and standard interface CPEs. (However, FIP CPE on custom MP interface must be able to respond to a MIM end-point service message which notifies the CPE of a service state change).

2. FORMAT

[1] TST:WSCPE,TP=a,TEST={CPE|PRINT|REFRESH|USPID};
[2] TST:WSCPE,TP=a,TEST={RMV|RST},CPE=b;
[3] TST:WSCPE,TP=a,TEST=LPBK,CPE=b,BLKSZ=c,CHAN=d[,PS];

3. EXPLANATION OF MESSAGE

PS = Indicates a loopback test to be run a packet switched channel.

TEST = Type of test request. Valid value(s):
CPE = Display the CPE information on the TLWS screen.
LPBK = Interactive digital test with a loopback established at the CPE (valid only for CPE that support testing).
PRINT = Print the CPE information, along with information about CPE provisioned for service on the DSL, but not currently connected.
REFRESH = Refresh the TLWS screen display.
RMV = Remove a CPE from service.
RST = Restore a CPE to service.
USPID = Display the user service profile identifier (USPID) on the TLWS screen.

WSCPE = Work station customer premises equipment (CPE).
a = TLWS TP number.
b = The CPE number as displayed on the TLWS screen.
c = Number of bits in the blocks (block size, BLKSZ) to be sent.
Channel of the DSL (B1, B2, or ANY). ‘ANY’ causes the first valid B-channel available to be used for the test.

4. SYSTEM RESPONSE

Hardware and resource errors that occur after a TLWS message has been accepted are displayed on the TLWS menu screen.

IP = In progress.

NG = No good. Refer to the APP:TLWS appendix in the Appendixes section of the Output Messages manual for an explanation of TLWS error responses. If this message is attempted as direct input, the error response "DIRECT INPUT NOT ALLOWED, USE TST:DSL" will be displayed.

RL = Retry later.

5. REFERENCES

Input Message(s):

OP:CPE
RLS:WSTST
RMV:CPE
RST:CPE
SET:WSPOS
TST:DSL

Output Appendix(es):

APP:TLWS

Other Manual(s):
235-100-125  System Description
235-105-110  System Maintenance Requirements and Tools
235-105-220  Corrective Maintenance

MCC Display Page(s):

160 (TRUNK & LINE MAINT)
TST:WSDGTL

Software Release: 5E14 and later
Command Group: TRKLN
Application: 5
Type: Input

1. PURPOSE

Requests digital testing on the port seized at the trunk and line work station (TLWS) test position (TP).

2. FORMAT

TST:WSDGTL,TP=a[,TERM=b][,BLKSZ=d][,CHAN=e][,TESTEQ=f][,PS][,USERDEF][,UCL];

3. EXPLANATION OF MESSAGE

CHAN = Channel.

PS = Run a packet type test. This parameter is not necessary when running tests on channels with permanent circuit or packet service, because the test type can be determined internally according to the channel provisioning. However, this parameter must be specified to run a packet test on on-demand packet (ODP) channels (default test type for ODP channels is circuit).

TERM = Termination point.

TESTEQ = Information pertaining to the test equipment being used in the testing.

UCL = Do not interrupt the test when the NT1 goes to test mode. This option applies only on ANSI U-DSL.

USERDEF = Run the digital test using the user-defined defaults. If no defaults have been previously set for the test position, the system defaults are used.

a = TLWS TP number.

b = Termination point for the loopback. Valid value(s):

CUc = Loopback point is a specified basic rate interface transmission extension (BRITE) channel unit (CU). Only valid on U-DSLs. For ANSI U-DSLs, c = 1 through 6. For AMI U-DSLs, c = 1 through 4.

EXT = Loopback is an external connection to the terminal. The digital bit stream is sent out, and it is the terminal’s option to send the bits back in the sent format or in an inverted format.

LBK = Loopback test, for a digital trunk, sends the digital bit stream out to the far end office. The far end office sends the bit stream back in the same format. (digital trunks only)

LBKCSU = Loopback test, for a packet-switching digital trunk, sends the digital bit stream out to the channel service unit (CSU). The CSU sends the bit stream back in the same format. Valid for packet switching trunks only.

LBKINV = Loopback test, for a digital trunk, sends the digital bit stream out to the far end office. The far end office sends the bit stream back in the inverted format. (digital trunks only)

LBKOCU = Loopback test, for a packet-switching digital trunk, sends the digital bit stream out to the office channel unit (OCU). The OCU sends the bit stream back in the same
format. Valid for packet switching trunks only.

**LBKSHT**

= Loopback test, for a speech handler trunk, sends the digital bit stream in to the speech handler (SH). The SH sends the bit stream back in the same format. Valid for speech handler trunks only.

**LT**

= Loopback point is a physical loopback in the line card. Default value for the digital subscriber line (DSL). (DSL only)

**MANSINK**

= Sets a loopback for a loopback test originated by the far end switch. When the far end switch sends a digital bit stream, the 5ESS® switch sends the digital bit stream back in the same format. Note: Block size entered is irrelevant when this termination is used. Valid for packet switching trunks only.

**MANSRCE**

= Loopback test, for a packet-switching digital trunk sends the digital bit stream out to the far end switch. The far end switch sends the digital bit stream back in the same format. Note: the far end switch must manually set the loopback prior to running this test. Valid for packet switching trunks only.

**NT1**

= Loopback point is a physical loopback at the network termination (NT1). Default value for U-DSL. (U-DSL only)

**PH**

= Loopback point is in the protocol handler. (DSL only)

**d**

= Number of bits in the blocks to be sent (1 - 64000, Default: 56000).

**e**

= Channel of the DSL (valid for DSLs only). Valid value(s):

- **ALL**
  = Run the test on all the channels of the DSL.
- **B1**
  = Run the test on the B1-channel.
- **B2**
  = Run the test on the B2-channel.
- **D**
  = Run the test on the D-channel.

**f**

= Channel of the DSL for which information pertaining to the test equipment being used in the testing is displayed. Valid value(s):

- (default).
- **B1**
  = Display the B1-channel test equipment information.
- **B2**
  = Display the B2-channel test equipment information.
- **D**
  = Display the D-channel test equipment information.

### 4. SYSTEM RESPONSE

**IP**

= In progress.

**NG**

= No good. Refer to the APP:TLWS appendix in the Appendixes section of the Output Messages Manual for an explanation of TLWS error responses.

**RL**

= Retry later. Refer to the APP:TLWS appendix in the Appendixes section of the Output Messages Manual for an explanation of TLWS error responses.

### 5. REFERENCES

**Input Message(s):**

- **CONN:WSIC**
- **CONN:WSLINE**
CONN: WSTRK
SET: WSPOS
TST: DSL
TST: TRK

Output Message(s):

TST: DSL
TST: TRK

Output Appendix(es):

APP: TLWS

Other Manual(s):
235-100-125  System Description
235-105-110  System Maintenance Requirements and Tools
235-105-220  Corrective Maintenance

MCC Display Page(s):

160 (TRUNK & LINE MAINT)
1. PURPOSE

Requests to measure signal characteristics in a transmission test on the line or trunk that was seized at the trunk and line work station (TLWS) test position (TP).

Note: If the TLWS talk and monitor (T&M) phone is not busy, it is automatically brought into the connection. During measurements the phone is in the MONITOR mode.

2. FORMAT

TST:WSMEAS,TP=a[,TEST=b][,ST];

3. EXPLANATION OF MESSAGE

ST
- Send tone simultaneous with the measurement. Sending a simultaneous tone is only allowed for the following measurement types: BBAND, L1, L2, L4, NOISE, and NWT. The tone is sent over the port at the frequency and level stored for the test position using the SET:WSFREQ input message.

a
- TLWS TP number.

b
- Type of measurement. Valid value(s):
  - BBAND = Broadband level.
  - ERL = Echo-return loss.
  - L4 = Level at 404 Hz.
  - L1 = Level at 1004 Hz.
  - L2 = Level at 2804 Hz.
  - MEASURE = Composite measure at BBAND, 404 Hz, 1004 Hz and 2804 Hz with the results being the largest measurement response. This is the default test.
  - NOISE = Far-to-near noise level.
  - NWT = Far-to-near level at 1004 Hz, -16 db.
  - SRL = Singing return loss.
  - SRLHI = Singing return loss, high.

4. SYSTEM RESPONSE

IP
- In progress.

NG
- No good. Refer to the APP:TLWS appendix in the Appendixes section of the Output Messages manual for an explanation of TLWS error responses.

5. REFERENCES

Input Message(s):
TST:WSMET

Software Release: 5E14 and later
Command Group: TRKLN
Application: 5
Type: Input

1. PURPOSE

Requests testing the metallic characteristics of the line or trunk attached to a trunk and line work station (TLWS) test position (TP).

Note: If the TLWS talk & monitor (T&M) phone is not busy, it is automatically brought into the connection. During metallic measurements the phone is in the ON HOLD state, so as not to interfere with the measurements.

2. FORMAT

TST:WSMET, TP=a[,TEST=b;][][,testeq=c;][][offtest=d;]

3. EXPLANATION OF MESSAGE

a = TLWS TP number.

b = Type of metallic measurement test. Valid value(s):
ALL = Perform voltage, resistance, and capacitance tests.
C = Perform capacitance test.
CC = Perform collect coin test (DCTU on coin only).
DC = Perform detect coin test (DCTU on coin only).
DIST = Perform distance to open test (line only).
HT = Perform home totalizer test (DCTU on coin only).
OFKT = Perform SLIM Off-hook test (SLIM on analog line only).
PGTC = Add the pair gain test controller into the metallic connection for testing universal-SLC® (U-SLC) ports (DCTU only).
R = Perform resistance test.
RC = Perform return coin test (DCTU on coin only).
RINGER = Perform ringer count test (DCTU on line only).
SHORT = Perform monitor for short test.
V = Perform voltage test.

c = Type of metallic test equipment. Valid value(s):
DCTU = Directly connected test unit.
SLIM = Subscriber line and measurement.

d = Type of SLIM off-hook test. Valid value(s):
DIALPULSE = Perform dial speed abd pulse test.
FLASH = Perform duration test hook flash.
KEYTONE = Perform keytone test.
LOOPRES = Perform offhook loop resistance test.
RING = Perform ring line test (default).
4. SYSTEM RESPONSE

IP = In progress.

NG = No good. Refer to the APP:TLWS appendix in the Appendixes section of the Output Messages Manual for an explanation of TLWS error responses.

5. REFERENCES

Input Message(s):

CONN:WSIC
CONN:WSLINE
CONN:WSTRK
RLS:WSTST
SET:WSPOS
TST:WSMTR

Output Appendix(es):

APP:TLWS

Other Manual(s):
235-100-125 System Description
235-105-110 System Maintenance Requirements and Tools
235-105-220 Corrective Maintenance

MCC Display Page(s):

160 (TRUNK & LINE MAINT)
**1. PURPOSE**

Requests MONITOR access to either a busy or idle port at the trunk and line work station (TLWS) test position (TP), depending on the mode option chosen in the input message.

The TLWS talk & monitor (T&M) phone must be available for use with this connection. It is in the MONITOR state for the connection.

**2. FORMAT**

TST:WSMNTR,TP=a[,MODE=b];

**3. EXPLANATION OF MESSAGE**

a = TLWS TP number.

b = Mode for the MONITOR function. Valid value(s):

- **BUSY** = The user can monitor audio only on a busy line/trunk.
- **IDLE** = The user can monitor audio on either a busy or idle line/trunk. In addition to monitoring, this mode will display the dialed digits and signals/tones sent or received by the switch.

**4. SYSTEM RESPONSE**

- **IP** = In progress.

- **NG** = No good. Refer to the APP:TLWS appendix in the Appendixes section of the Output Messages manual for an explanation of TLWS error responses.

**5. REFERENCES**

Input Message(s):

- CONN:WSLINE
- CONN:WSTRK
- RLS:WSTST
- SET:WSPOS

Output Appendix(es):

- APP:TLWS

Other Manual(s):

- 235-100-125  *System Description*
- 235-105-110  *System Maintenance Requirements and Tools*
Corrective Maintenance

MCC Display Page(s):

160 (TRUNK & LINE MAINT)

RC/V View(s):

14.3 (TRUNK AND LINE WORK STATION)
TST:WSSEND

Software Release: 5E14 and later
Command Group: TRKLN
Application: 5
Type: Input

1. PURPOSE

Requests that a tone be sent over, or a termination be applied to, the port currently seized at the trunk and line station (TLWS) test position (TP).

Note: If the TLWS talk and monitor (T&M) phone is not busy, it is automatically brought into the connection. During sending of tone, it is in the MONITOR mode.

2. FORMAT

[1] TST:WSSEND,TP=a,SEND[,FREQ=b][,LVP=c|,LVN=d];

[2] TST:WSSEND,TP=a[,TEST=e];

3. EXPLANATION OF MESSAGE

Note: Refer to the Acronym section of the Input Messages manual for the full expansion of acronyms shown in the format.

a = TLWS TP number.

b = Frequency in hertz (0 - 4000). If not specified, the user defined value set with the SET:WSFREQ input request will be used.

c = Level in positive tenths of db of the tone (0-30) (for example, +2.4 dbm is specified as 24). If not specified, the user defined value set with the SET:WSFREQ input request is used.

d = Level in negative tenths of a db of the tone (0 - 480) (for example, -24 dbm is specified as 240). If not specified, the user defined value set with the SET:WSFREQ input request is used.

e = Test to be run.

OPEN = Open termination: applies only to analog trunks; supervision is not monitored.
QUIET = Quiet termination: applies to both lines and trunks; supervision is monitored during the quiet interval.
SEND = Send tone at frequency and level stored for the TLWS TP. The SET:WSFREQ input request is used to store the frequency and level. This is the default test.

4. SYSTEM RESPONSE

IP = In progress.

NG = No good. Refer to the APP:TLWS appendix in the Appendixes section of the Output Messages manual for an explanation of TLWS error responses.
5. REFERENCES

Input Message(s):

CONN:WSIC
CONN:WSLINE
CONN:WSTRK
RLS:WSTST
SET:WSFREQ
SET:WSPOS
TST:WSMNTR

Output Appendix(es):

APP:TLWS

Other Manual(s):

235-100-125  System Description
235-105-110  System Maintenance Requirements and Tools
235-105-220  Corrective Maintenance

MCC Display Page(s):

160 (TRUNK & LINE MAINT)
1. PURPOSE

Requests that supervision characteristics of the line or trunk be tested at the trunk and line work station (TLWS) test position (TP) number that was seized using a TLWS seize line, trunk, or incoming call input message. A TP must be selected before requesting the test. Refer to the SET:WSPOS input message.

Format 1 is used to initiate a specific supervision test on a line or trunk [except for recorded announcement function (RAF) or service announcement system (SAS)]. Format 2 is used to play a single phrase or all phrases on a recorded announcement port. Format 2 can also be used to play a range of phrases (playing a range of phrases applies only to a SAS). Format 3 is used to play a complete announcement or execute a dial-through announcement test on a RAF or SAS port.

2. FORMAT

[1] TST:WSSUPV,TP=a,TEST=b;
[2] TST:WSSUPV,TP=a,TEST=PHRASE,PHRASE=c[&h][,TIME=i];
[3] TST:WSSUPV,TP=a,TEST={ANN|DTA},APPL=d,HANN=e,TANN=f,INFL=g,ANNCSET=j[,TIME=i];

3. EXPLANATION OF MESSAGE

ANN = Play an announcement [digital service unit 2 - recorded announcement function (DSU2-RAF) or SAS port only].

DTA = Dial-through announcement test (DSU2-RAF or SAS port only).

PHRASE = Play phrase(s) (DSU2-RAF or SAS port only).

a = TLWS TP number.

b = Test options. Valid value(s):

CCOR = Coin collect and operator released signal test (incoming operator trunk only).
CNCL = Coin collect signal test (incoming operator trunk only).
CNDT = Coin detect (line only).
CNRT = Coin return signal test (incoming operator trunk only).
DSEC = Disable echo canceler (trunk only).
ENECL = Enable echo canceler (trunk only).
HMTO = Home totalizer (line only).
MSMTCH = Network termination 1 (NT1) mismatch test (U-card only).
OFF = Trunk off-hook (trunk only).
ON = Trunk on-hook (non-common channel signaling [CCS] trunk only). For CCS7 trunks a release (REL) message is sent to the far end.
OPAT = Operator attached signal test (incoming operator trunk only).
OPRL = Operator released signal test (incoming operator trunk only).
PPTONE = Defense switch network (DSN) preemption tone (DSN office only).
QWINK = Quick wink test (trunk only).
RING = Ring line (line only).
RNGBK = Ringback test (trunk only).
ROH = Receiver off-hook (line only).
SHLB = Set up a loopback at the speech handler [speech handler trunk (SHT) only].
SHUNLB = Tear down a loopback at the speech handler (SHT only).
WINK = Wink test (trunk only).

c = Phrase number (0-65535) for RAF, 0 plays all phrases. For SAS this is the low range (0-65530).

d = Announcement application (APPL). Valid value(s):
   2LVL = LASS 2-level activation.
   ACSR = Automatic customer station rearrangement.
   L2 = Non-English Language 2 for OSPS.
   L3 = Non-English Language 3 for OSPS.
   L4 = Non-English Language 4 for OSPS.
   L5 = Non-English Language 5 for OSPS.
   L6 = Non-English Language 6 for OSPS.
   L7 = Non-English Language 7 for OSPS.
   LASS = LASS screen list editing.
   OSPSDA = Operator Services Position System (OSPS) directory assistance.
   OSPSTA = OSPS toll and assistance.
   PVN = Private virtual network custom announcements.
   RAS = Remote access service.

  e = Header announcement (HANN) ID (0-65535).
  f = Trailer announcement (TANN) ID (0-65535).
  g = Inflection (INFL) ID (0-255).
  h = Phrase number high range (SAS only) (1-65530).
  i = Time to wait for announcement or phrase playback (SAS only) (15-60) minutes.
  j = Alternate Announcement Set (ANNCSET) ID (0-1022).

4. SYSTEM RESPONSE

NG = No good. Refer to the APP:TLWS appendix in the Appendixes section of the Output Messages manual for an explanation of TLWS error responses.

OK = Good.

5. REFERENCES

Input Message(s):

CONN:WSIC
CONN:WSLINE
CONN:WSTRK
RLS:WSTST
SET:WSPOS
TST: WSMNTR

Output Appendix(es):

APP: TLWS

Other Manual(s):
235-100-125  System Description
235-105-110  System Maintenance Requirements and Tools
235-105-220  Corrective Maintenance

MCC Display Page(s):

160 (TRUNK & LINE MAINT)
80. UPD
UPD: APPLY-BYTER-A

Software Release: 5E14 - 5E15
Command Group: SFTMGT
Application: 5,3B
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Requests application of a byte replacement update associated with a software update. BYTER writes into sequential memory locations in processes.

Format 1 is used for administrative module (AM) updates only.

Format 2 is used for switching module (SM), communications module processor (CMP) or peripheral updates.

Format 3 is used for updates that require the existence of the pathlist file to determine where the update is to be applied.

WARNING: This message overwrites data in the memory of the switch. It should not be used without expert technical assistance unless it is part of a prescribed software update procedure.

2. FORMAT

[1] UPD: APPLY: BYTER, UPNM="a", FN="b", TARGET=AM, ADDR=d, DATA=e, ...
...
OLDDATA=f[, UCL][, WTIME="h"];

[2] UPD: APPLY: BYTER, UPNM="a", FN="b", TARGET=c, PACKINFO="g", ...
...
[, UCL][, DF="j"];

[3] UPD: APPLY: BYTER, UPNM="a", FN="b", TARGET="AMPATH", PACKINFO="g". ...
...
DF="j", [UCL];

3. EXPLANATION OF MESSAGE

UCL = Do not enforce order on the software update name 'a'.

a = Software update. This can be specified as BWMyy-nnnn, TMPyy-nnnn (temporary), or CFTyy-nnnn where BWM, TMP, and CFT identify the category of software update, yy is the last two digits of the year issued, and nnnn is the sequence number identifying the software update. Double quotes (" ") are required.

b = The name of the file to be changed, specified by the pathname 'b'. Refer to the Routine Operations and Maintenance manual for definitions of file and pathname.

c = The processor to receive the update. Valid value(s):
AMPATH = Office specific update in the AM.
CMP = Communication module processor.
DDMA = Diagnostic direct memory access
DNUSCC = Digital networking unit - synchronous optical network (SONET) (DNU-S) common control.
DNUSTMX = Transmission multiplexer.
DSC3 = Digital service circuit - model 3.
DSP13K = 8K digital signal processor for CDMA protocol handler for voice.
DSP8K = 8K digital signal processor for CDMA protocol handler for voice.
DSPEVRC = EVRC digital signal processor for CDMA protocol handler for voice.
GDSF = Global digital services function - model 3.
HDSU = Hardware digital service unit.
HSAS = Service announcement system diagnostic image.
IDCUCCP = Integrated digital carrier unit (IDCU) common control processor.
IDCUDLP = IDCU data link processor.
IDCULSI = IDCU loop side interface.
IP3S = Protocol handler 3 CCS OIP image.
IP4F = Frame relay protocol handler version 4 I/O processor.
IP4I = PH4I operational input/output processor.
IP4IF = ISDN Frame Relay protocol handler version 4 I/O processor.
ISLU = Integrated services line unit.
ISLU2 = Integrated services line unit 2.
ISTF = Integrated services test function.
LDSU = Local digital service unit.
LDSF = Local digital services function - model 3.
MSGH = Message handler.
ODMA = Operational direct memory access.
O1OP = Operational input/output processor.
PH2A = Protocol handler 2 (PH2) with ACCESS application processor image.
PH2G = PH2 with GATEWAY application processor image.
PH3C = Protocol handler 3 (PH3) with COMMON application processor image.
PH3S = PH3 CCS AP image.
PH4A = Protocol handler 4 (PH4) access image.
PH4G = PH4 gateway image.
PH4I = PH4 with integrated services digital network (ISDN) application processor image.
PHA1A = Protocol handler for ATM (asynchronous transfer mode).
PI = Packet interface.
PI2 = Packet interface unit 2.
PHV1C = Protocol handler for voice for CDMA (code division multiple access).
PHV3C = Protocol handler for voice version 3 for CDMA application.
PHV4C = Protocol handler for voice version 4 for CDMA application.
RAF = Recorded announcement function.
SAS = Service announcement system operational image.
SM = Switching module.
SMPMH = Switching module processor message handler (MH) operational image.
SMPMHLB = Switching module processor MH little boot image.
V3DACP = ACELP digital signal processor, for TDMA protocol handler for voice.
V4D13K = 13K DSP, for CDMA protocol handler for voice version 4.
V4D8K = 8K DSP, for CDMA protocol handler for voice version 4.
V4DACP = ACELP DSP, for TDMA protocol handler for voice version 4.
V4DEVR1 = EVRC1 DSP, for CDMA protocol handler for voice version 4.
V4DEVR2 = EVRC2 DSP, for CDMA protocol handler for voice version 4.
V4DEVR3 = EVRC3 DSP, for CDMA protocol handler for voice version 4.
V4DVSP = VSELP DSP, for TDMA protocol handler for voice version 4.
V4DISL = ISLP DSP, for IS41 TDMA protocol handler for data circuit.
d = The starting address (in decimal) of the overwrite, which must be on a word boundary.

e = The overwrite that will be placed at starting address 'd'. Each overwrite must be four bytes long. A list of up to 32 overwrites may be entered. The order they are entered is the order in which they will be written into the file, 'b'.

f = Expected contents of the locations to be overwritten. Old contents must be given for every overwrite entered. The order they are entered will be the order they are compared to the contents in the file 'b', starting at address 'd'.

g = Name of the PACKINFO file. Double quotes (" ") are required.

h = The number of seconds ("wait time", WTIME), for the automatic backout wait (0-3600 seconds, default: 300). This parameter is only applicable when 'b' is non-killable.

j = The path name of the dependent file to be changed. Refer to the Routine Operations and Maintenance manual for definitions of file and path name. Double quotes (" ") are required.

4. SYSTEM RESPONSE

PF = Printout follows. The request has been accepted. Followed by the UPD:APPLY output message.

5. REFERENCES

Input Message(s):

UPD:BKOUT
UPD:DISPLAY
UPD:OFC
UPD:PMPPERF

Output Message(s):

UPD:APPLY
UPD:SYSERR
UPD:USRERR

Other Manual(s):
235-105-210 Routine Operations and Maintenance

MCC Display Page(s):
1950 PROGRAM UPDATE MAINTENANCE
1960 INSTALL BWM
UPD:APPLY-BYTER-B
Software Release: 5E16(1) only
Command Group: SFTMGT
Application: 5,3B
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Requests application of a byte replacement update associated with a software update. BYTER writes into sequential memory locations in processes.

Format 1 is used for administrative module (AM) updates only. Format 2 is used for switching module (SM), communications module processor (CMP) or peripheral updates. Format 3 is used for updates that require the existence of the pathlist file to determine where the update is to be applied.

WARNING: This message overwrites data in the memory of the switch. It should not be used without expert technical assistance unless it is part of a prescribed software update procedure.

2. FORMAT

   . . .OLDDATA=f[,UCL][,WTIME="h"];

   . . .[,UCL][,DF="j"];

   . . .DF="j"[,UCL];

3. EXPLANATION OF MESSAGE

UCL = Do not enforce order on the software update name 'a'.

a = Software update. This can be specified as BWMyy-nnnn, TMPyy-nnnn (temporary), or CFTyy-nnnn where BWM, TMP, and CFT identify the category of software update, yy is the last two digits of the year issued, and nnnn is the sequence number identifying the software update. Double quotes (" ") are required.

b = The name of the file to be changed, specified by the pathname 'b'. Refer to the Routine Operations and Maintenance manual for definitions of file and pathname.

c = The processor to receive the update. Valid value(s):
   AMPATH = Office specific update in the AM.
   CMP = Communication module processor.
   DDMA = Diagnostic direct memory access
   DNUSCC = Digital networking unit - synchronous optical network (SONET) (DNU-S) common control.
   DNUSTMX = Transmission multiplexer.
<table>
<thead>
<tr>
<th>Abbreviation</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>DSC3</td>
<td>Digital service circuit - model 3.</td>
</tr>
<tr>
<td>DSP13K</td>
<td>8K digital signal processor for code division multiple access (CDMA) protocol handler for voice.</td>
</tr>
<tr>
<td>DSP8K</td>
<td>8K digital signal processor for CDMA protocol handler for voice.</td>
</tr>
<tr>
<td>DSPEVRC</td>
<td>EVRC digital signal processor for CDMA protocol handler for voice.</td>
</tr>
<tr>
<td>GDSF</td>
<td>Global digital services function - model 3.</td>
</tr>
<tr>
<td>HDSU</td>
<td>Hardware digital service unit.</td>
</tr>
<tr>
<td>HSAS</td>
<td>Service announcement system diagnostic image.</td>
</tr>
<tr>
<td>IDCUCCP</td>
<td>Integrated digital carrier unit (IDCU) common control processor.</td>
</tr>
<tr>
<td>IDCUDLP</td>
<td>IDCU data link processor.</td>
</tr>
<tr>
<td>IDCULSI</td>
<td>IDCU loop side interface.</td>
</tr>
<tr>
<td>IP22</td>
<td>PH22 common input/output processor (IOP) image.</td>
</tr>
<tr>
<td>IP3S</td>
<td>PH3 CCS IOP image.</td>
</tr>
<tr>
<td>IP4F</td>
<td>Frame relay PH4 IOP image.</td>
</tr>
<tr>
<td>IP4I</td>
<td>ISDN PH4 IOP image.</td>
</tr>
<tr>
<td>IP4IF</td>
<td>ISDN frame relay PH4 IOP image.</td>
</tr>
<tr>
<td>ISLU</td>
<td>Integrated services line unit.</td>
</tr>
<tr>
<td>ISLU2</td>
<td>Integrated services line unit 2.</td>
</tr>
<tr>
<td>ISTF</td>
<td>Integrated services test function.</td>
</tr>
<tr>
<td>LDSU</td>
<td>Local digital service unit.</td>
</tr>
<tr>
<td>LDSF</td>
<td>Local digital services function - model 3.</td>
</tr>
<tr>
<td>MH32</td>
<td>Switching module processor message handler 32 (MH32) image.</td>
</tr>
<tr>
<td>MHEIB</td>
<td>Switching module processor message handler EIB (MHEIB) image.</td>
</tr>
<tr>
<td>MHLB</td>
<td>Switching module processor MH little boot image.</td>
</tr>
<tr>
<td>MHPPC</td>
<td>Switching module processor message handler power PC (MHPPC) image.</td>
</tr>
<tr>
<td>MHPPCLB</td>
<td>Switching module processor MHPPC little boot image.</td>
</tr>
<tr>
<td>MSGH</td>
<td>Message handler.</td>
</tr>
<tr>
<td>ODMA</td>
<td>Operational direct memory access.</td>
</tr>
<tr>
<td>OIOP</td>
<td>Operational input/output processor.</td>
</tr>
<tr>
<td>OIU24</td>
<td>Optical interface unit - 24 channels.</td>
</tr>
<tr>
<td>PH2A</td>
<td>Protocol handler 2 (PH2) ACCESS application processor (AP) image.</td>
</tr>
<tr>
<td>PH2G</td>
<td>PH2 GATEWAY AP image.</td>
</tr>
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<td>PH4I</td>
<td>PH4 ISDN AP image.</td>
</tr>
<tr>
<td>PHA1A</td>
<td>Protocol handler for asynchronous transfer mode (ATM) AP image.</td>
</tr>
<tr>
<td>PHA2A</td>
<td>Protocol handler for ATM model 2 AP image.</td>
</tr>
<tr>
<td>PHE2E</td>
<td>Protocol handler for ethernet.</td>
</tr>
<tr>
<td>PI</td>
<td>Packet interface.</td>
</tr>
<tr>
<td>PI2</td>
<td>Packet interface unit 2.</td>
</tr>
<tr>
<td>PHV1C</td>
<td>Protocol handler for voice version 1 (PHV1) for CDMA AP image.</td>
</tr>
<tr>
<td>PHV2C</td>
<td>PHV2 for CDMA application AP image.</td>
</tr>
<tr>
<td>PHV3C</td>
<td>PHV3 for CDMA application AP image.</td>
</tr>
<tr>
<td>PHV4C</td>
<td>PHV4 for CDMA application AP image.</td>
</tr>
<tr>
<td>PHV5C</td>
<td>PHV5 for CDMA application AP image.</td>
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<td>RAF</td>
<td>Recorded announcement function.</td>
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<td>SAS</td>
<td>Service announcement system operational image.</td>
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</tbody>
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SM = Switching module.
V3DACP = ACELP digital signal processor (DSP) for TDMA PH V3.
V4D13K = 13K DSP, for CDMA for PHV4.
V4D8K = 8K DSP, for CDMA for PHV4.
V4DACP = ACELP DSP, for TDMA for PHV4.
V4DEVR1 = EVRC1 DSP, for CDMA for PHV4.
V4DEVR2 = EVRC2 DSP, for CDMA for PHV4.
V4DEVR3 = EVRC3 DSP, for CDMA for PHV4.
V4DVSP = VSELP DSP, for TDMA for PHV4.
V4DISL = ISLP DSP, for IS41 TDMA PHV4 data circuit.
V5D13K = 13K DSP, for CDMA for PHV5.
V5D8K = 8K DSP, for CDMA for PHV5.
V5DACP = ACELP DSP, for TDMA for PHV5.
V5DEVR1 = EVRC1 DSP, for CDMA for PHV5.
V5DEVR2 = EVRC2 DSP, for CDMA for PHV5.
V5DEVR3 = EVRC3 DSP, for CDMA for PHV5.
V5DVSP = VSELP DSP, for TDMA PHV5.
V5DISL = ISLP DSP, for IS41 TDMA PHV5 data circuit.

d = The starting address (in decimal) of the overwrite, which must be on a word boundary.
e = The overwrite that will be placed at starting address ‘d’. Each overwrite must be four bytes long. A list of up to 32 overwrites may be entered. The order they are entered is the order in which they will be written into the file, ‘b’.
f = Expected contents of the locations to be overwritten. Old contents must be given for every overwrite entered. The order they are entered will be the order they are compared to the contents in the file ‘b’, starting at address ‘d’.
g = Name of the PACKINFO file. Double quotes (" ") are required.
h = The number of seconds ("wait time", WTIME), for the automatic backout wait (0-3600 seconds, default: 300). This parameter is only applicable when ‘b’ is non-killable.
j = The pathname of the dependent file to be changed. Refer to the Routine Operations and Maintenance manual for definitions of file and pathname. Double quotes (" " ) are required.

4. SYSTEM RESPONSE

PF = Printout follows. The request has been accepted. Followed by the UPD:APPLY output message.

5. REFERENCES

Input Message(s):

UPD:BKOUT
UPD:DISPLAY
UPD:OFC
UPD:PMPPERF
Output Message(s):

UPD: APPLY
UPD: SYSERR
UPD: USRERR

Other Manual(s):
235-105-210  Routine Operations and Maintenance

MCC Display Page(s):
1950  PROGRAM UPDATE MAINTENANCE
1960  INSTALL BWM
UPD:APPLY-BYTER-C

Software Release: 5E16(2) and later
Command Group: SFTMGT
Application: 5,3B
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Requests application of a byte replacement update associated with a software update. BYTER writes into sequential memory locations in processes.

Format 1 is used for administrative module (AM) updates only. Format 2 is used for switching module (SM), communications module processor (CMP) or peripheral updates. Format 3 is used for updates that require the existence of the pathlist file to determine where the update is to be applied.

WARNING: This message overwrites data in the memory of the switch. It should not be used without expert technical assistance unless it is part of a prescribed software update procedure.

2. FORMAT

. . .OLDDATA=f[,UCL] [,WTIME="h"];

. . .[,UCL] [,DF="j"];

. . .DF="j"[,UCL];

3. EXPLANATION OF MESSAGE

UCL = Do not enforce order on the software update name 'a'.

a = Software update. This can be specified as BWMyy-nnnn, TMPyy-nnnn (temporary), or CFTyy-nnnn where BWM, TMP, and CFT identify the category of software update, yy is the last two digits of the year issued, and nnnn is the sequence number identifying the software update. Double quotes (" ") are required.

b = The name of the file to be changed, specified by the pathname 'b'. Refer to the Routine Operations and Maintenance manual for definitions of file and pathname.

c = The processor to receive the update. Valid value(s):

AMPATH = Office specific update in the AM.
CMP = Communication module processor.
DDMA = Diagnostic direct memory access
DNUSCC = Digital networking unit - synchronous optical network (SONET) (DNU-S) common control.
DNUSTMX = Transmission multiplexer.
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<td>8K digital signal processor for CDMA protocol handler for voice.</td>
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<td>DSPEVRC</td>
<td>EVRC digital signal processor for CDMA protocol handler for voice.</td>
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<td>GDSF</td>
<td>Global digital services function - model 3.</td>
</tr>
<tr>
<td>HDSU</td>
<td>Hardware digital service unit.</td>
</tr>
<tr>
<td>HSAS</td>
<td>Service announcement system diagnostic image.</td>
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<td>IDCUCCP</td>
<td>Integrated digital carrier unit (IDCU) common control processor.</td>
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<td>IDCU loop side interface.</td>
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<td>IP22</td>
<td>PH22 common input/output processor (IOP) image.</td>
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<td>IP3S</td>
<td>PH3 CCS IOP image.</td>
</tr>
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<td>ISDN PH4 IOP image.</td>
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<td>ISDN frame relay PH4 IOP image.</td>
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<td>Integrated services line unit 2.</td>
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<td>Switching module processor message handler EIB (MHEIB) image.</td>
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<tr>
<td>MHLB</td>
<td>Switching module processor MH little boot image.</td>
</tr>
<tr>
<td>MHPPC</td>
<td>Switching module processor message handler PowerPC® (MHPPC) image.</td>
</tr>
<tr>
<td>MHPPCLB</td>
<td>Switching module processor MHPPC little boot image.</td>
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<td>Optical interface unit (OIU) - 24 channels.</td>
</tr>
<tr>
<td>OIUIP</td>
<td>Optical interface unit - internet protocol (IP).</td>
</tr>
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<td>Protocol handler 2 (PH2) ACCESS application processor (AP) image.</td>
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<td>PH2G</td>
<td>PH2 GATEWAY AP image.</td>
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<td>PH4 ISDN AP image.</td>
</tr>
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<td>PHA1A</td>
<td>Protocol handler for asynchronous transfer mode (ATM) AP image.</td>
</tr>
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<td>PHA2A</td>
<td>Protocol handler for ATM model 2 AP image.</td>
</tr>
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<td>PHE2E</td>
<td>Protocol handler for ethernet.</td>
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<td>Packet interface.</td>
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<td>P12</td>
<td>Packet interface unit 2.</td>
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<td>PHV1C</td>
<td>Protocol handler for voice version 1 (PHV1) for CDMA AP image.</td>
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<td>PHV2 for CDMA application AP image.</td>
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<td>PHV3 for CDMA application AP image.</td>
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<tr>
<td>PHV4C</td>
<td>PHV4 for CDMA application AP image.</td>
</tr>
<tr>
<td>PHV5C</td>
<td>PHV5 for CDMA application AP image.</td>
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<td>RAF</td>
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SAS = Service announcement system operational image.
SM = Switching module.
V3DACP = ACELP digital signal processor (DSP) for TDMA PHV3.
V4D13K = 13K DSP, for CDMA for PHV4.
V4D8K = 8K DSP, for CDMA for PHV4.
V4DACP = ACELP DSP, for TDMA for PHV4.
V4DEVRI = EVRC1 DSP, for CDMA for PHV4.
V4DEVR2 = EVRC2 DSP, for CDMA for PHV4.
V4DEVR3 = EVRC3 DSP, for CDMA for PHV4.
V4DVSP = VSELP DSP, for TDMA for PHV4.
V4DISL = ISLP DSP, for IS41 TDMA PHV4 data circuit.
V5D13K = 13K DSP, for CDMA for PHV5.
V5D8K = 8K DSP, for CDMA for PHV5.
V5DACP = ACELP DSP, for TDMA for PHV5.
V5DEVR1 = EVRC1 DSP, for CDMA for PHV5.
V5DEVR2 = EVRC2 DSP, for CDMA for PHV5.
V5DEVR3 = EVRC3 DSP, for CDMA for PHV5.
V5DVSP = VSELP DSP, for TDMA PHV5.
V5DISL = ISLP DSP, for IS41 TDMA PHV5 data circuit.

d = The starting address (in decimal) of the overwrite, which must be on a word boundary.

e = The overwrite that will be placed at starting address 'd'. Each overwrite must be four bytes long. A list of up to 32 overwrites may be entered. The order they are entered is the order in which they will be written into the file, 'b'.

f = Expected contents of the locations to be overwritten. Old contents must be given for every overwrite entered. The order they are entered will be the order they are compared to the contents in the file 'b', starting at address 'd'.

g = Name of the PACKINFO file. Double quotes (" " ) are required.

h = The number of seconds ("wait time", WTIME), for the automatic backout wait (0-3600 seconds, default: 300). This parameter is only applicable when 'b' is non-killable.

j = The pathname of the dependent file to be changed. Refer to the Routine Operations and Maintenance manual for definitions of file and pathname. Double quotes (" " ) are required.

4. SYSTEM RESPONSE

PF = Printout follows. The request has been accepted. Followed by the UPD:APPLY output message.

5. REFERENCES

Input Message(s):

UPD:BKOUT
UPD:DISPLAY
UPD:OFC
UPD:PMPPERF

Output Message(s):

UPD:APPLY
UPD:SYSERR
UPD:USRERR

Other Manual(s):
235-105-210 Routine Operations and Maintenance

MCC Display Page(s):
1950 PROGRAM UPDATE MAINTENANCE
1960 INSTALL BWM
UPD:APPLY-FILER-A

Software Release: 5E14 - 5E15
Command Group: SFTMGT
Application: 5,3B
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Requests application of a file replacement update associated with a software update. FILER replaces an old file with a new one. The new file retains the old file's characteristics (mode, owner, and so forth).

Format 1 is to be used for administrative module (AM) updates only.
Format 2 is to be used for switching module (SM), communications module processor (CMP) or peripheral updates.
Format 4 is to be used for updates that need the existence of the pathlist file to determine where the update will be applied.

WARNING: This message overwrites data in system files. It should not be used without expert technical assistance unless it is part of a prescribed software update procedure.

2. FORMAT

[2] UPD:APPLY:FILER,UPNM="a",FN="b",TARGET=c,UF="d",DF="e" [,UCL];
[3] UPD:APPLY:FILER,UPNM="a",FN="b",TARGET=g,UF="e",DF="f" [,UCL];

3. EXPLANATION OF MESSAGE

NREL = Forces a file replacement of 'b' by 'd' when the file types are different in their magic numbers or when one is in common object file format and the other is not.

UCL = Do not enforce order on the software update name 'a'.

a = Software update. These can be specified as BWMyy-nnnn, TMPyy-nnnn (temporary), or CFTyy-nnnn where BWM, TMP, and CFT identify the category of software update, yy is the last two digits of the year issued, and nnnn is the sequence number identifying the software update. Double quotes (""") are required.

b = Pathname of the file to be replaced. Refer to the Routine Operations and Maintenance manual for definitions of pathname and file. If the file does not exist it will be created.

c = The processor to receive the update. Valid value(s):
AMPATH = Office specific update in the AM.
CMP = Communication module processor.
DDMA = Diagnostic direct memory access
DNUSCC  = Digital networking unit - synchronous optical network (SONET) (DNU-S) common control.
DNUSTMX = Transmission multiplexer.
DSC3     = Digital service circuit - model 3.
DSP13K   = 8K digital signal processor for CDMA protocol handler for voice.
DSP8K    = 8K digital signal processor for CDMA protocol handler for voice.
DSP EVRC = EVRC digital signal processor for CDMA protocol handler for voice.
GDSF     = Global digital services function - model 3.
HDSU     = Hardware digital service unit.
HSAS     = Service announcement system diagnostic image.
IDCU CCP = Integrated digital carrier unit (IDCU) common control processor.
IDCU DLP = IDCU data link processor.
IDCU ISI = IDCU loop side interface.
IP3S     = Protocol handler 3 CCS OIP image.
IP4F     = Frame relay protocol handler version 4 I/O processor.
IP4I     = PH4I operational input/output processor.
IP4IF    = ISDN Frame Relay protocol handler version 4 I/O processor.
ISLU     = Integrated services line unit.
ISLU 2   = Integrated services line unit 2.
ISTF     = Integrated services test function.
LDSU     = Local digital service unit.
LDSF     = Local digital services function - model 3.
MSGH     = Message handler.
ODMA     = Operational direct memory access.
O10P     = Operational input/output processor.
PH2A     = Protocol handler 2 (PH2) with ACCESS application processor image.
PH2G     = PH2 with GATEWAY application processor image.
PH3C     = Protocol handler 3 (PH3) with COMMON application processor image.
PH3S     = PH3 CCS AP image.
PH4A     = Protocol handler 4 (PH4) access image.
PH4G     = PH4 gateway image.
PH4I     = PH4 with integrated services digital network (ISDN) application processor image.
PHA1A    = Protocol handler for ATM (asynchronous transfer mode).
P1        = Packet interface.
P12       = Packet interface unit 2.
PHV1C    = Protocol handler for voice for CDMA (code division multiple access).
PHV3C    = Protocol handler for voice version 3 for CDMA application.
PHV4C    = Protocol handler for voice version 4 for CDMA application.
RAF      = Recorded announcement function.
SAS      = Service announcement system operational image.
SM       = Switching module.
SMP MH   = Switching module processor message handler (MH) operational image.
SMP MH LB = Switching module processor MH little boot image.
V3 DACP  = ACELP digital signal processor, for TDMA protocol handler for voice.
V4D13K   = 13K DSP, for CDMA protocol handler for voice version 4.
V4D8K    = 8K DSP, for CDMA protocol handler for voice version 4.
V4 DACP  = ACELP DSP, for TDMA protocol handler for voice version 4.
V4 DEVR 1 = EVRC1 DSP, for CDMA protocol handler for voice version 4.
V4 DEVR 2 = EVRC2 DSP, for CDMA protocol handler for voice version 4.
V4 DEVR 3 = EVRC3 DSP, for CDMA protocol handler for voice version 4.
V4DVSP = VSELP DSP, for TDMA protocol handler for voice version 4.
V4DISL = ISLP DSP, for IS41 TDMA protocol handler for data circuit.

d = Name of the source file in the software update package.
e = Pathname of the dependent file to be replaced. Refer to the Operations and Routine Maintenance manual for definitions of pathname and file. If the file does not exist it will be created.

4. SYSTEM RESPONSE

PF = Printout follows. Followed by a UPD:APPLY output message.

5. REFERENCES

Input Message(s):

UPD:BKOUT
UPD:DISPLAY
UPD:OFC
UPD:PMPPERF

Output Message(s):

UPD:APPLY
UPD:SYSERR
UPD:USRERR

Other Manual(s):
235-105-210 Routine Operations and Maintenance

MCC Display Page(s):
1950 PROGRAM UPDATE MAINTENANCE
1960 INSTALL BWM
**UPD: APPLY-FILER-B**

**Software Release:** 5E16(1) only  
**Command Group:** SFTMGT  
**Application:** 5,3B  
**Type:** Input

**WARNING:** INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. **PURPOSE**

Requests application of a file replacement update associated with a software update. FILER replaces an old file with a new one. The new file retains the old file's characteristics (mode, owner, and so forth).

Format 1 is to be used for administrative module (AM) updates only.  
Format 2 is to be used for switching module (SM), communications module processor (CMP) or peripheral updates.  
Format 4 is to be used for updates that need the existence of the pathlist file to determine where the update will be applied.

**WARNING:** This message overwrites data in system files. It should not be used without expert technical assistance unless it is part of a prescribed software update procedure.

2. **FORMAT**

1. \[1\] `UPD:APPLY:FILER,UPNM="a",FN="b",TARGET=AM,UF="d",[NREL],[UCL];`

2. \[2\] `UPD:APPLY:FILER,UPNM="a",FN="b",TARGET=c,UF="d",UF="e",[UCL];`

3. \[3\] `UPD:APPLY:FILER,UPNM="a",FN="b",TARGET=g,UF="e",DF="f",[UCL];`

4. \[4\] `UPD:APPLY:FILER,UPNM="a",FN="b",TARGET=AMPATH,UF="d",[NREL]. . .[UCL];`

3. **EXPLANATION OF MESSAGE**

- **NREL** = Forces a file replacement of 'b' by 'd' when the file types are different in their magic numbers or when one is in common object file format and the other is not.

- **UCL** = Do not enforce order on the software update name 'a'.

- **a** = Software update. These can be specified as BWMyy-nnnn, TMPyy-nnnn (temporary), or CFTyy-nnnn where BWM, TMP, and CFT identify the category of software update, yy is the last two digits of the year issued, and nnnn is the sequence number identifying the software update. Double quotes (" ") are required.

- **b** = Pathname of the file to be replaced. Refer to the Routine Operations and Maintenance manual for definitions of pathname and file. If the file does not exist it will be created.
<table>
<thead>
<tr>
<th>Processor</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>AMPATH</td>
<td>Office specific update in the AM.</td>
</tr>
<tr>
<td>CMP</td>
<td>Communication module processor.</td>
</tr>
<tr>
<td>DDMA</td>
<td>Diagnostic direct memory access.</td>
</tr>
<tr>
<td>DNUSCC</td>
<td>Digital networking unit - synchronous optical network (SONET) (DNU-S) common control.</td>
</tr>
<tr>
<td>DNUSTMX</td>
<td>Transmission multiplexer.</td>
</tr>
<tr>
<td>DSC3</td>
<td>Digital service circuit - model 3.</td>
</tr>
<tr>
<td>DSP13K</td>
<td>8K digital signal processor (DSP) for code division multiple access (CDMA) protocol handler for voice.</td>
</tr>
<tr>
<td>DSP8K</td>
<td>8K digital signal processor for CDMA protocol handler for voice.</td>
</tr>
<tr>
<td>DSPEVRC</td>
<td>EVRC digital signal processor for CDMA protocol handler for voice.</td>
</tr>
<tr>
<td>GDSF</td>
<td>Global digital services function - model 3.</td>
</tr>
<tr>
<td>HDSU</td>
<td>Hardware digital service unit.</td>
</tr>
<tr>
<td>HSAS</td>
<td>Service announcement system diagnostic image.</td>
</tr>
<tr>
<td>IDCUCCP</td>
<td>Integrated digital carrier unit (IDCU) common control processor.</td>
</tr>
<tr>
<td>IDCUDLP</td>
<td>IDCU data link processor.</td>
</tr>
<tr>
<td>IDCULSI</td>
<td>IDCU loop side interface.</td>
</tr>
<tr>
<td>IP22</td>
<td>PH22 common input/output processor (IOP) image.</td>
</tr>
<tr>
<td>IP3S</td>
<td>PH3 CCS IOP image.</td>
</tr>
<tr>
<td>IP4F</td>
<td>Frame relay PH4 IOP image.</td>
</tr>
<tr>
<td>IP4I</td>
<td>ISDN PH4 IOP image.</td>
</tr>
<tr>
<td>IP4IF</td>
<td>ISDN frame relay PH4 IOP image.</td>
</tr>
<tr>
<td>ISLU</td>
<td>Integrated services line unit.</td>
</tr>
<tr>
<td>ISLU2</td>
<td>Integrated services line unit 2.</td>
</tr>
<tr>
<td>ISTF</td>
<td>Integrated services test function.</td>
</tr>
<tr>
<td>LDSU</td>
<td>Local digital service unit.</td>
</tr>
<tr>
<td>LDSF</td>
<td>Local digital services function - model 3.</td>
</tr>
<tr>
<td>MSGH</td>
<td>Message handler.</td>
</tr>
<tr>
<td>ODMA</td>
<td>Operational direct memory access.</td>
</tr>
<tr>
<td>OIOP</td>
<td>Operational input/output processor.</td>
</tr>
<tr>
<td>OIU24</td>
<td>Optical interface unit - 24 channels.</td>
</tr>
<tr>
<td>PH2A</td>
<td>Protocol handler 2 (PH2) with ACCESS application processor (AP) image.</td>
</tr>
<tr>
<td>PH2G</td>
<td>PH2 with GATEWAY AP image.</td>
</tr>
<tr>
<td>PH22I</td>
<td>PH22 wireless ISDN AP image.</td>
</tr>
<tr>
<td>PH22S</td>
<td>PH22 signaling AP image.</td>
</tr>
<tr>
<td>PH3C</td>
<td>PH3 with COMMON AP image.</td>
</tr>
<tr>
<td>PH3S</td>
<td>PH3 CCS AP image.</td>
</tr>
<tr>
<td>PH4A</td>
<td>PH4 access AP image.</td>
</tr>
<tr>
<td>PH4G</td>
<td>PH4 gateway AP image.</td>
</tr>
<tr>
<td>PH4I</td>
<td>PH4 with ISDN AP image.</td>
</tr>
<tr>
<td>PHA1A</td>
<td>Protocol handler for asynchronous transfer mode (ATM) AP image.</td>
</tr>
<tr>
<td>PHA2A</td>
<td>Protocol handler for ATM model 2 AP image.</td>
</tr>
<tr>
<td>PHE2E</td>
<td>Protocol handler for ethernet.</td>
</tr>
<tr>
<td>PI</td>
<td>Packet interface.</td>
</tr>
<tr>
<td>P12</td>
<td>Packet interface unit 2.</td>
</tr>
<tr>
<td>PHV1C</td>
<td>Protocol handler for voice version 1 (PHV1) for CDMA AP image.</td>
</tr>
<tr>
<td>PHV2C</td>
<td>PHV2 for CDMA application AP image.</td>
</tr>
<tr>
<td>PHV3C</td>
<td>PHV3 for CDMA application AP image.</td>
</tr>
<tr>
<td>PHV4C</td>
<td>PHV4 for CDMA application AP image.</td>
</tr>
<tr>
<td>PHV5C</td>
<td>PHV5 for CDMA application AP image.</td>
</tr>
</tbody>
</table>
RAF = Recorded announcement function.
SAS = Service announcement system operational image.
SM = Switching module.
SMPMH = Switching module processor message handler (MH) operational image.
SMPMHLLB = Switching module processor MH little boot image.
V3DACP = ACELP DSP for TDMA PHV3.
V4D13K = 13K DSP, for CDMA for PHV4.
V4D8K = 8K DSP, for CDMA for PHV4.
V4DACP = ACELP DSP, for TDMA for PHV4.
V4DEVR1 = EVRC1 DSP, for CDMA for PHV4.
V4DEVR2 = EVRC2 DSP, for CDMA for PHV4.
V4DEVR3 = EVRC3 DSP, for CDMA for PHV4.
V4DVSP = VSELP DSP, for TDMA for PHV4.
V4DISL = ISLP DSP, for IS41 TDMA PHV4 data circuit.
V5D13K = 13K DSP, for CDMA for PHV5.
V5D8K = 8K DSP, for CDMA for PHV5.
V5DACP = ACELP DSP, for TDMA for PHV5.
V5DEVR1 = EVRC1 DSP, for CDMA for PHV5.
V5DEVR2 = EVRC2 DSP, for CDMA for PHV5.
V5DEVR3 = EVRC3 DSP, for CDMA for PHV5.
V5DVSP = VSELP DSP, for TDMA PHV5.
V5DISL = ISLP DSP, for IS41 TDMA PHV5 data circuit.

d = Name of the source file in the software update package.
e = Pathname of the dependent file to be replaced. Refer to the Operations and Routine Maintenance manual for definitions of pathname and file. If the file does not exist it will be created.

4. SYSTEM RESPONSE

PF = Printout follows. Followed by a UPD:APPLY output message.

5. REFERENCES

Input Message(s):

UPD:BKOUT
UPD:DISPLAY
UPD:OFC
UPD:PMPPERF

Output Message(s):

UPD:APPLY
UPD:SYSERR
UPD:USRERR

Other Manual(s):
235-105-210 Routine Operations and Maintenance
MCC Display Page(s):
1950  PROGRAM UPDATE MAINTENANCE
1960  INSTALL BWM
UPD:APPLY-FILER-C

Software Release: 5E16(2) and later
Command Group: SFTMGT
Application: 5,3B
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Requests application of a file replacement update associated with a software update. FILER replaces an old file with a new one. The new file retains the old file's characteristics (mode, owner, and so forth).

Format 1 is to be used for administrative module (AM) updates only.

Format 2 is to be used for switching module (SM), communications module processor (CMP) or peripheral updates.

Format 4 is to be used for updates that need the existence of the pathlist file to determine where the update will be applied.

WARNING: This message overwrites data in system files. It should not be used without expert technical assistance unless it is part of a prescribed software update procedure.

2. FORMAT

[1] UPD:APPLY:FILER,UPNM="a",FN="b",TARGET=AM,UF="d" [,NREL][,UCL];

[2] UPD:APPLY:FILER,UPNM="a",FN="b",TARGET=c,UF="d",DF="e" [,UCL];

[3] UPD:APPLY:FILER,UPNM="a",FN="b",TARGET=g,UF="e",DF="f" [,UCL];


3. EXPLANATION OF MESSAGE

NREL = Forces a file replacement of 'b' by 'd' when the file types are different in their magic numbers or when one is in common object file format and the other is not.

UCL = Do not enforce order on the software update name 'a'.

a = Software update. These can be specified as BWMyy-nnnn, TMPyy-nnnn (temporary), or CFTyy-nnnn where BW, TMP, and CFT identify the category of software update, yy is the last two digits of the year issued, and nnnn is the sequence number identifying the software update. Double quotes (" ") are required.

b = Pathname of the file to be replaced. Refer to the Routine Operations and Maintenance manual for definitions of pathname and file. If the file does not exist it will be created.
The processor to receive the update. Valid value(s):

- **AMPATH** = Office specific update in the AM.
- **CMP** = Communication module processor.
- **DDMA** = Diagnostic direct memory access.
- **DNUSCC** = Digital networking unit - synchronous optical network (SONET) (DNU-S) common control.
- **DNUSTMX** = Transmission multiplexer.
- **DSC3** = Digital service circuit - model 3.
- **DSP13K** = 8K digital signal processor (DSP) for code division multiple access (CDMA) protocol handler for voice.
- **DSP8K** = 8K digital signal processor for CDMA protocol handler for voice.
- **DSPEVRC** = EVRC digital signal processor for CDMA protocol handler for voice.
- **GDSF** = Global digital services function - model 3.
- **HDSU** = Hardware digital service unit.
- **HSAS** = Service announcement system diagnostic image.
- **IDCUCCP** = Integrated digital carrier unit (IDCU) common control processor.
- **IDCUDLP** = IDCU data link processor.
- **IDCULSI** = IDCU loop side interface.
- **IP22** = PH22 common input/output processor (IOP) image.
- **IP3S** = PH3 CCS IOP image.
- **IP4F** = Frame relay PH4 IOP image.
- **IP4I** = ISDN PH4 IOP image.
- **IP4IF** = ISDN frame relay PH4 IOP image.
- **ISLU** = Integrated services line unit.
- **ISLU2** = Integrated services line unit 2.
- **ISTF** = Integrated services test function.
- **LDSU** = Local digital service unit.
- **LDSF** = Local digital services function - model 3.
- **MSGH** = Message handler.
- **ODMA** = Operational direct memory access.
- **OIOP** = Operational input/output processor.
- **OIU24** = Optical interface unit (OIU) - 24 channels.
- **OIUIP** = Optical interface unit - internet protocol (IP).
- **PH2A** = Protocol handler 2 (PH2) with ACCESS application processor (AP) image.
- **PH2G** = PH2 with GATEWAY AP image.
- **PH22I** = PH22 wireless ISDN AP image.
- **PH22S** = PH22 signaling AP image.
- **PH3C** = PH3 with COMMON AP image.
- **PH3S** = PH3 CCS AP image.
- **PH4A** = PH4 access AP image.
- **PH4G** = PH4 gateway AP image.
- **PH4I** = PH4 with ISDN AP image.
- **PHA1A** = Protocol handler for asynchronous transfer mode (ATM) AP image.
- **PHA2A** = Protocol handler for ATM model 2 AP image.
- **PHE2E** = Protocol handler for ethernet.
- **PI** = Packet interface.
- **PI2** = Packet interface unit 2.
- **PHV1C** = Protocol handler for voice version 1 (PHV1) for CDMA AP image.
- **PHV2C** = PHV2 for CDMA application AP image.
- **PHV3C** = PHV3 for CDMA application AP image.
- **PHV4C** = PHV4 for CDMA application AP image.
PHV5C = PHV5 for CDMA application AP image.
RAF = Recorded announcement function.
SAS = Service announcement system operational image.
SM = Switching module.
SMPMH = Switching module processor message handler (MH) operational image.
SMPMHLB = Switching module processor MH little boot image.
V3DACP = ACELP DSP for TDMA PHV3.
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V4DEVR1 = EVRC1 DSP, for CDMA for PHV4.
V4DEVR2 = EVRC2 DSP, for CDMA for PHV4.
V4DEVR3 = EVRC3 DSP, for CDMA for PHV4.
V4DVSP = VSELP DSP, for TDMA for PHV4.
V4DISL = ISLP DSP, for IS41 TDMA PHV4 data circuit.
V5D13K = 13K DSP, for CDMA for PHV5.
V5D8K = 8K DSP, for CDMA for PHV5.
V5DACP = ACELP DSP, for TDMA for PHV5.
V5DEVR1 = EVRC1 DSP, for CDMA for PHV5.
V5DEVR2 = EVRC2 DSP, for CDMA for PHV5.
V5DEVR3 = EVRC3 DSP, for CDMA for PHV5.
V5DVSP = VSELP DSP, for TDMA PHV5.
V5DISL = ISLP DSP, for IS41 TDMA PHV5 data circuit.

d = Name of the source file in the software update package.
e = Pathname of the dependent file to be replaced. Refer to the Operations and Routine Maintenance manual for definitions of pathname and file. If the file does not exist it will be created.

4. SYSTEM RESPONSE

PF = Printout follows. Followed by a UPD:APPLY output message.

5. REFERENCES

Input Message(s):

UPD:BKOUT
UPD:DISPLAY
UPD:OFC
UPD:PMPPERF

Output Message(s):

UPD:APPLY
UPD:SYSERR
UPD:USRERR
UPD:APPLY-FUNCR-A

**Software Release:** 5E14 - 5E15  
**Command Group:** SFTMGT  
**Application:** 5,3B  
**Type:** Input

**WARNING:** INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Requests application of a function replacement update associated with a software update.

- Format 1 is to be used for AM updates only.
- Format 2 is to be used for SM, CMP or peripheral updates.
- Format 3 is to be used for updates that need the existence of the pathlist file to determine where the update will be applied.

**WARNING:** This message overwrites data in system files and in the memory of the switch. It should not be used without expert technical assistance unless it is part of a prescribed software update procedure.

2. FORMAT

1. UPD:APPLY:FUNCR,UPNM="a",FN="b",TARGET=AM,{UF="e" | UFFN="f"} . . . [,UCL] [,WTIME="h"];

2. UPD:APPLY:FUNCR,UPNM="a",FN="b",TARGET=c,PACKINFO="d" . . . [,DF="g"] [,UCL];

3. UPD:APPLY:FUNCR,UPNM="a",FN="b",TARGET="AMPATH",PACKINFO="d" . . . [,DF="g"] [,UCL];

3. EXPLANATION OF MESSAGE

**UCL** = Do not enforce order on the BWM name 'a'.

**a** = Software update. These can be specified as BWMyy-nnnn, TMPyy-nnnn (temporary), or CFTyy-nnnn where BWM, TMP, and CFT identify the category of software update, yy are the last two digits of the year, and nnnn is the sequence number identifying the software update. Double quotes (" ") are required.

**b** = Pathname of the file to be modified. Refer to the Operations and Routine Maintenance manual for definitions of pathname, directory and files.

**c** = The processor to receive the update. Valid value(s):
- **AMPATH** = Office specific update in the AM.
- **CMP** = Communication module processor.
- **DDMA** = Diagnostic direct memory access.
- **DNUSCC** = Digital networking unit - synchronous optical network (SONET) (DNU-S) common control.
- **DNUSTMX** = Transmission multiplexer.
<table>
<thead>
<tr>
<th>Acronym</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>DSC3</td>
<td>Digital service circuit - model 3.</td>
</tr>
<tr>
<td>DSP13K</td>
<td>8K digital signal processor for CDMA protocol handler for voice.</td>
</tr>
<tr>
<td>DSP8K</td>
<td>8K digital signal processor for CDMA protocol handler for voice.</td>
</tr>
<tr>
<td>DSPEVRC</td>
<td>EVRC digital signal processor for CDMA protocol handler for voice.</td>
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<tr>
<td>GDSF</td>
<td>Global digital services function - model 3.</td>
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<tr>
<td>HDSU</td>
<td>Hardware digital service unit.</td>
</tr>
<tr>
<td>HSAS</td>
<td>Service announcement system diagnostic image.</td>
</tr>
<tr>
<td>IDCUCP</td>
<td>Integrated digital carrier unit (IDCU) common control processor.</td>
</tr>
<tr>
<td>IDCUDLP</td>
<td>IDCU data link processor.</td>
</tr>
<tr>
<td>IDCULSI</td>
<td>IDCU loop side interface.</td>
</tr>
<tr>
<td>IP3S</td>
<td>Protocol handler 3 CCS OIP image.</td>
</tr>
<tr>
<td>IP4F</td>
<td>Frame relay protocol handler version 4 I/O processor.</td>
</tr>
<tr>
<td>IP4I</td>
<td>PH4I operational input/output processor.</td>
</tr>
<tr>
<td>IP4IF</td>
<td>ISDN frame relay protocol handler version 4 I/O processor.</td>
</tr>
<tr>
<td>ISLU</td>
<td>Integrated services line unit.</td>
</tr>
<tr>
<td>ISLU2</td>
<td>Integrated services line unit 2.</td>
</tr>
<tr>
<td>ISTF</td>
<td>Integrated services test function.</td>
</tr>
<tr>
<td>LDSU</td>
<td>Local digital service unit.</td>
</tr>
<tr>
<td>LDSF</td>
<td>Local digital services function - model 3.</td>
</tr>
<tr>
<td>MSGH</td>
<td>Message handler.</td>
</tr>
<tr>
<td>ODMA</td>
<td>Operational direct memory access.</td>
</tr>
<tr>
<td>OIOP</td>
<td>Operational input/output processor.</td>
</tr>
<tr>
<td>PH2A</td>
<td>Protocol handler 2 (PH2) with ACCESS application processor image.</td>
</tr>
<tr>
<td>PH2G</td>
<td>PH2 with GATEWAY application processor image.</td>
</tr>
<tr>
<td>PH3C</td>
<td>Protocol handler 3 (PH3) with COMMON application processor image.</td>
</tr>
<tr>
<td>PH3S</td>
<td>PH3 CCS AP image.</td>
</tr>
<tr>
<td>PH4A</td>
<td>Protocol handler 4 (PH4) access image.</td>
</tr>
<tr>
<td>PH4G</td>
<td>PH4 gateway image.</td>
</tr>
<tr>
<td>PH4I</td>
<td>PH4 with integrated services digital network (ISDN) application processor image.</td>
</tr>
<tr>
<td>PHA1A</td>
<td>Protocol handler for ATM (asynchronous transfer mode).</td>
</tr>
<tr>
<td>PI</td>
<td>Packet interface.</td>
</tr>
<tr>
<td>PI2</td>
<td>Packet interface unit 2.</td>
</tr>
<tr>
<td>PHV1C</td>
<td>Protocol handler for voice for CDMA (code division multiple access).</td>
</tr>
<tr>
<td>PHV3C</td>
<td>Protocol handler for voice version 3 for CDMA application.</td>
</tr>
<tr>
<td>PHV4C</td>
<td>Protocol handler for voice version 4 for CDMA application.</td>
</tr>
<tr>
<td>RAF</td>
<td>Recorded announcement function.</td>
</tr>
<tr>
<td>SAS</td>
<td>Service announcement system operational image.</td>
</tr>
<tr>
<td>SM</td>
<td>Switching module.</td>
</tr>
<tr>
<td>SMPMH</td>
<td>Switching module processor message handler (MH) operational image.</td>
</tr>
<tr>
<td>SMPMLB</td>
<td>Switching module processor MH little boot image.</td>
</tr>
<tr>
<td>V3DACP</td>
<td>ACELP digital signal processor, for TDMA protocol handler for voice.</td>
</tr>
<tr>
<td>V4DI3K</td>
<td>13K DSP, for CDMA protocol handler for voice version 4.</td>
</tr>
<tr>
<td>V4D8K</td>
<td>8K DSP, for CDMA protocol handler for voice version 4.</td>
</tr>
<tr>
<td>V4DACP</td>
<td>ACELP DSP, for TDMA protocol handler for voice version 4.</td>
</tr>
<tr>
<td>V4DEVR1</td>
<td>EVRC1 DSP, for CDMA protocol handler for voice version 4.</td>
</tr>
<tr>
<td>V4DEVR2</td>
<td>EVRC2 DSP, for CDMA protocol handler for voice version 4.</td>
</tr>
<tr>
<td>V4DEVR3</td>
<td>EVRC3 DSP, for CDMA protocol handler for voice version 4.</td>
</tr>
<tr>
<td>V4DVSP</td>
<td>VSELP DSP, for TDMA protocol handler for voice version 4.</td>
</tr>
<tr>
<td>V4DISL</td>
<td>ISLP DSP, for IS41 TDMA protocol handler for data circuit.</td>
</tr>
</tbody>
</table>
d = Name of the PACKINFO file.

e = Pathname(s) of one or more update files. May be the name of a single .m file, or a list of .m files. Refer to the Operations and Routine Maintenance manual for instructions on entering a list of file names.

f = Name of the file containing list of .m files for this update.

f = Pathname of the dependent file to be modified. Refer to the Operations and Routine Maintenance manual for definitions of pathname, directory, and files.

h = The number of seconds ("wait time", WTIME), for the automatic backout wait (0-3600 seconds, default: 300). This parameter is only applicable when 'b' is non-killable.

4. SYSTEM RESPONSE

PF = Printout follows. The request has been accepted. Followed by the UPD:APPLY output message.

5. REFERENCES

Input Message(s):

UPD:BKOUT
UPD:DISPLAY
UPD:OFC
UPD:PMPPERF

Output Message(s):

UPD:APPLY
UPD:SYSERR
UPD:USRERR

Other Manual(s):
235-105-210 Routine Operations and Maintenance

MCC Display Page(s):
1950 PROGRAM UPDATE MAINTENANCE
1960 INSTALL BWM
**UPD:APPLY-FUNCR-B**

**Software Release:** 5E16(1) only  
**Command Group:** SFTMGT  
**Application:** 5,3B  
**Type:** Input

**WARNING:** INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

### 1. PURPOSE

Requests application of a function replacement update associated with a software update.

Format 1 is to be used for AM updates only.

Format 2 is to be used for SM, CMP or peripheral updates.

Format 3 is to be used for updates that need the existence of the pathlist file to determine where the update will be applied.

**WARNING:** This message overwrites data in system files and in the memory of the switch. It should not be used without expert technical assistance unless it is part of a prescribed software update procedure.

### 2. FORMAT

1.  
   ```
   UPD:APPLY:FUNCR,UPNM="a",FN="b",TARGET=AM,{UF="e" | UFFN="f"}. . .
   . . .,[,UCL][,WTIME="h"];
   ```

2.  
   ```
   UPD:APPLY:FUNCR,UPNM="a",FN="b",TARGET=c,PACKINFO="d". . .
   . . .,[,DF="g"][,UCL];
   ```

3.  
   ```
   . . .,[,DF="g"][,UCL];
   ```

### 3. EXPLANATION OF MESSAGE

**UCL**

= Do not enforce order on the BWM name 'a'.

**a**

= Software update. These can be specified as BWMyy-nnnn, TMPyy-nnnn (temporary), or CFTyy-nnnn where BWM, TMP, and CFT identify the category of software update, yy are the last two digits of the year, and nnnn is the sequence number identifying the software update. Double quotes ('"') are required.

**b**

= Pathname of the file to be modified. Refer to the Operations and Routine Maintenance manual for definitions of pathname, directory and files.

**c**

= The processor to receive the update. Valid value(s):

  - AMPATH = Office specific update in the AM.
  - CMP = Communication module processor.
  - DDMA = Diagnostic direct memory access.
  - DNUSCC = Digital networking unit - synchronous optical network (SONET) (DNU-S) common
<table>
<thead>
<tr>
<th>Abbreviation</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>DNUSTMX</td>
<td>Transmission multiplexer.</td>
</tr>
<tr>
<td>DSC3</td>
<td>Digital service circuit - model 3.</td>
</tr>
<tr>
<td>DSP13K</td>
<td>8K digital signal processor (DSP) for code division multiple access (CDMA) protocol handler for voice.</td>
</tr>
<tr>
<td>DSP8K</td>
<td>8K digital signal processor for CDMA protocol handler for voice.</td>
</tr>
<tr>
<td>DSEPVRMC</td>
<td>EVRC digital signal processor for CDMA protocol handler for voice.</td>
</tr>
<tr>
<td>GDSF</td>
<td>Global digital services function - model 3.</td>
</tr>
<tr>
<td>HDSU</td>
<td>Hardware digital service unit.</td>
</tr>
<tr>
<td>HSAS</td>
<td>Service announcement system diagnostic image.</td>
</tr>
<tr>
<td>IDCUCCP</td>
<td>Integrated digital carrier unit (IDCU) common control processor.</td>
</tr>
<tr>
<td>IDCUDLP</td>
<td>IDCU data link processor.</td>
</tr>
<tr>
<td>IDCULSI</td>
<td>IDCU loop side interface.</td>
</tr>
<tr>
<td>IP22</td>
<td>PH22 common input/output processor (IOP) image.</td>
</tr>
<tr>
<td>IP3S</td>
<td>PH3 CCS IOP image.</td>
</tr>
<tr>
<td>IP4F</td>
<td>Frame relay PH4 IOP image.</td>
</tr>
<tr>
<td>IP4I</td>
<td>ISDN PH4 IOP image.</td>
</tr>
<tr>
<td>IP4IF</td>
<td>ISDN frame relay PH4 IOP image.</td>
</tr>
<tr>
<td>ISLU</td>
<td>Integrated services line unit.</td>
</tr>
<tr>
<td>ISLU2</td>
<td>Integrated services line unit 2.</td>
</tr>
<tr>
<td>ISTF</td>
<td>Integrated services test function.</td>
</tr>
<tr>
<td>LDSU</td>
<td>Local digital service unit.</td>
</tr>
<tr>
<td>LDSF</td>
<td>Local digital services function - model 3.</td>
</tr>
<tr>
<td>MH32</td>
<td>Switching module processor message handler 32 (MH32) image.</td>
</tr>
<tr>
<td>MHEIB</td>
<td>Switching module processor message handler EIB (MHEIB) image.</td>
</tr>
<tr>
<td>MHLB</td>
<td>Switching module processor MH little boot image.</td>
</tr>
<tr>
<td>MHPPC</td>
<td>Switching module processor message handler power PC (MHPPC) image.</td>
</tr>
<tr>
<td>MHPPCLB</td>
<td>Switching module processor MHPPC little boot image.</td>
</tr>
<tr>
<td>MSGH</td>
<td>Message handler.</td>
</tr>
<tr>
<td>ODMA</td>
<td>Operational direct memory access.</td>
</tr>
<tr>
<td>OIOP</td>
<td>Operational input/output processor.</td>
</tr>
<tr>
<td>OIU24</td>
<td>Optical interface unit - 24 channels.</td>
</tr>
<tr>
<td>PH2A</td>
<td>Protocol handler 2 (PH2) ACCESS application processor (AP) image.</td>
</tr>
<tr>
<td>PH2G</td>
<td>PH2 GATEWAY AP image.</td>
</tr>
<tr>
<td>PH22I</td>
<td>PH22 wireless ISDN AP image.</td>
</tr>
<tr>
<td>PH22S</td>
<td>PH22 signaling AP image.</td>
</tr>
<tr>
<td>PH3C</td>
<td>PH3 COMMON AP image.</td>
</tr>
<tr>
<td>PH3S</td>
<td>PH3 CCS AP image.</td>
</tr>
<tr>
<td>PH4A</td>
<td>PH4 access AP image.</td>
</tr>
<tr>
<td>PH4G</td>
<td>PH4 gateway AP image.</td>
</tr>
<tr>
<td>PH4I</td>
<td>PH4 ISDN AP image.</td>
</tr>
<tr>
<td>PHA1A</td>
<td>Protocol handler for asynchronous transfer mode (ATM) AP image.</td>
</tr>
<tr>
<td>PHA2A</td>
<td>Protocol handler for ATM model 2 AP image.</td>
</tr>
<tr>
<td>PHE2E</td>
<td>Protocol handler for ethernet.</td>
</tr>
<tr>
<td>PI</td>
<td>Packet interface.</td>
</tr>
<tr>
<td>P12</td>
<td>Packet interface unit 2.</td>
</tr>
<tr>
<td>PHV1C</td>
<td>Protocol handler for voice version 1 (PHV1) for CDMA AP image.</td>
</tr>
<tr>
<td>PHV2C</td>
<td>PHV2 for CDMA application AP image.</td>
</tr>
<tr>
<td>PHV3C</td>
<td>PHV3 for CDMA application AP image.</td>
</tr>
<tr>
<td>PHV4C</td>
<td>PHV4 for CDMA application AP image.</td>
</tr>
<tr>
<td>PHV5C</td>
<td>PHV5 for CDMA application AP image.</td>
</tr>
</tbody>
</table>
RAF  = Recorded announcement function.
SAS  = Service announcement system operational image.
SM   = Switching module.
V3DACP = ACELP DSP for TDMA PHV3.
V4D13K = 13K DSP, for CDMA for PHV4.
V4D8K  = 8K DSP, for CDMA for PHV4.
V4DACP = ACELP DSP, for TDMA for PHV4.
V4DEVR1 = EVRC1 DSP, for CDMA for PHV4.
V4DEVR2 = EVRC2 DSP, for CDMA for PHV4.
V4DEVR3 = EVRC3 DSP, for CDMA for PHV4.
V4DVSP  = VSELP DSP, for TDMA for PHV4.
V4DISL  = ISLP DSP, for IS41 TDMA PHV4 data circuit.
V5D13K  = 13K DSP, for CDMA for PHV5.
V5D8K  = 8K DSP, for CDMA for PHV5.
V5DACP = ACELP DSP, for TDMA for PHV5.
V5DEVR1 = EVRC1 DSP, for CDMA for PHV5.
V5DEVR2 = EVRC2 DSP, for CDMA for PHV5.
V5DEVR3 = EVRC3 DSP, for CDMA for PHV5.
V5DVSP  = VSELP DSP, for TDMA PHV5.
V5DISL = ISLP DSP, for IS41 TDMA PHV5 data circuit.

d = Name of the PACKINFO file.
e = Pathname(s) of one or more update files. May be the name of a single .m file, or a list of .m files. Refer to the Operations and Routine Maintenance manual for instructions on entering a list of file names.
f = Name of the file containing list of .m files for this update.
g = Pathname of the dependent file to be modified. Refer to the Operations and Routine Maintenance manual for definitions of pathname, directory, and files.
h = The number of seconds ("wait time", WTIME), for the automatic backout wait (0-3600 seconds, default: 300). This parameter is only applicable when 'b' is non-killable.

4. SYSTEM RESPONSE

PF = Printout follows. The request has been accepted. Followed by the UPD:APPLY output message.

5. REFERENCES

Input Message(s):

UPD:BKOUT
UPD:DISPLAY
UPD:OFC
UPD:PMPPERF

Output Message(s):
UPD: APPLY
UPD: SYSERR
UPD: USRERR

Other Manual(s):
235-105-210 Routine Operations and Maintenance

MCC Display Page(s):
1950 PROGRAM UPDATE MAINTENANCE
1960 INSTALL BWM
UPD:APPLY-FUNCR-C

Software Release: 5E16(2) and later
Command Group: SFTMGT
Application: 5,3B
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Requests application of a function replacement update associated with a software update.

Format 1 is to be used for AM updates only.

Format 2 is to be used for SM, CMP or peripheral updates.

Format 3 is to be used for updates that need the existence of the pathlist file to determine where the update will be applied.

WARNING: This message overwrites data in system files and in the memory of the switch. It should not be used without expert technical assistance unless it is part of a prescribed software update procedure.

2. FORMAT

     \{,UCL\}[,WTIME="h"];

     \{,DF="g"\}[,UCL];

     \{,DF="g"\}[,UCL];

3. EXPLANATION OF MESSAGE

UCL = Do not enforce order on the BWM name 'a'.

a = Software update. These can be specified as BWMyy-nnnn, TMPyy-nnnn (temporary), or CFTyy-nnnn where BWM, TMP, and CFT identify the category of software update, yy are the last two digits of the year, and nnnn is the sequence number identifying the software update. Double quotes (" ") are required.

b = Pathname of the file to be modified. Refer to the Operations and Routine Maintenance manual for definitions of pathname, directory and files.

c = The processor to receive the update. Valid value(s):

AMPATH = Office specific update in the AM.
CMP = Communication module processor.
DDMA = Diagnostic direct memory access
DNUSCC = Digital networking unit - synchronous optical network (SONET) (DNU-S) common
control.

DNUSTMX = Transmission multiplexer.
DSC3 = Digital service circuit - model 3.
DSP13K = 8K digital signal processor (DSP) for code division multiple access (CDMA) protocol handler for voice.

DSP8K = 8K digital signal processor for CDMA protocol handler for voice.
DSPVRC = EVC digital signal processor for CDMA protocol handler for voice.
GDSF = Global digital services function - model 3.
HDSU = Hardware digital service unit.
HSAS = Service announcement system diagnostic image.

IDCUCCP = Integrated digital carrier unit (IDCU) common control processor.
IDCUDLP = IDCU data link processor.
IDCULSI = IDCU loop side interface.

IP22 = PH22 common input/output processor (IOP) image.
IP3S = PH3 CCS IOP image.
IP4F = Frame relay PH4 IOP image.
IP4I = ISDN PH4 IOP image.
IP4IF = ISDN frame relay PH4 IOP image.
ISLU = Integrated services line unit.

ISLU2 = Integrated services line unit 2.
ISTF = Integrated services test function.

LDSU = Local digital service unit.

LDSF = Local digital services function - model 3.

MH32 = Switching module processor message handler 32 (MH32) image.
MHEIB = Switching module processor message handler EIB (MHEIB) image.

MLB = Switching module processor MH little boot image.
MHPPC = Switching module processor message handler PowerPC® (MHPPC) image.

MHPPCLB = Switching module processor MHPPC little boot image.

MSGH = Message handler.

ODMA = Operational direct memory access.

OIOP = Operational input/output processor.

OIU24 = Optical interface unit (OIU) - 24 channels.
OIUIP = Optical interface unit - internet protocol (IP).

PH2A = Protocol handler 2 (PH2) ACCESS application processor (AP) image.
PH2G = PH2 GATEWAY AP image.

PH22I = PH22 wireless ISDN AP image.
PH22S = PH22 signaling AP image.

PH3C = PH3 COMMON AP image.

PH3S = PH3 CCS AP image.

PH4A = PH4 access AP image.

PH4G = PH4 gateway AP image.

PH4I = PH4 ISDN AP image.

PHA1A = Protocol handler for asynchronous transfer mode (ATM) AP image.

PHA2A = Protocol handler for ATM model 2 AP image.

PHE2E = Protocol handler for ethernet.

PI = Packet interface.

P12 = Packet interface unit 2.

PHV1C = Protocol handler for voice version 1 (PHV1) for CDMA AP image.

PHV2C = PHV2 for CDMA application AP image.

PHV3C = PHV3 for CDMA application AP image.

PHV4C = PHV4 for CDMA application AP image.
PHVS = PHV5 for CDMA application AP image.
RAF = Recorded announcement function.
SAS = Service announcement system operational image.
SM = Switching module.
V3DACP = ACELP DSP for TDMA PHV3.
V4D13K = 13K DSP, for CDMA for PHV4.
V4D8K = 8K DSP, for CDMA for PHV4.
V4DACP = ACELP DSP, for TDMA for PHV4.
V4DEVR1 = EVRC1 DSP, for CDMA for PHV4.
V4DEVR2 = EVRC2 DSP, for CDMA for PHV4.
V4DEVR3 = EVRC3 DSP, for CDMA for PHV4.
V4DVSP = VSELP DSP, for TDMA for PHV4.
V4DISL = ISLP DSP, for IS41 TDMA PHV4 data circuit.
V5D13K = 13K DSP, for CDMA for PHV5.
V5D8K = 8K DSP, for CDMA for PHV5.
V5DACP = ACELP DSP, for TDMA for PHV5.
V5DEVR1 = EVRC1 DSP, for CDMA for PHV5.
V5DEVR2 = EVRC2 DSP, for CDMA for PHV5.
V5DEVR3 = EVRC3 DSP, for CDMA for PHV5.
V5DVSP = VSELP DSP, for TDMA PHV5.
V5DISL = ISLP DSP, for IS41 TDMA PHV5 data circuit.

d = Name of the PACKINFO file.
e = Pathname(s) of one or more update files. May be the name of a single .m file, or a list of .m files. Refer to the Operations and Routine Maintenance manual for instructions on entering a list of file names.
f = Name of the file containing list of .m files for this update.
g = Pathname of the dependent file to be modified. Refer to the Operations and Routine Maintenance manual for definitions of pathname, directory, and files.
h = The number of seconds ("wait time", WTIME), for the automatic backout wait (0-3600 seconds, default: 300). This parameter is only applicable when 'b' is non-killable.

4. SYSTEM RESPONSE

PF = Printout follows. The request has been accepted. Followed by the UPD:APPLY output message.

5. REFERENCES

Input Message(s):

UPD:BKOUT
UPD:DISPLAY
UPD:OFC
UPD:PMPPERF
Output Message(s):

UPD:APPLY
UPD:SYSERR
UPD:USRERR

Other Manual(s):
235-105-210  Routine Operations and Maintenance

MCC Display Page(s):
1950  PROGRAM UPDATE MAINTENANCE
1960  INSTALL BWM
UPD:APPLY-UNIX

Software Release: 5E14 and later
Command Group: SFTMGT
Application: 5,3B
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Requests update to the software update database (Cud) after the successful execution of the first input message preceding the first UPD:APPLY message in the APPLY section of the MSGS file in a software update (SU).

This input message is not part of the MSGS file and is automatically executed during the Software Update process. If there is no input message preceding the first UPD:APPLY line in the MSGS file, this input message will not be executed.

WARNING: This message overwrites data in system files and is automatically executed, if needed, when 9310 or 9410 is poked from the 1960 page or 9800 is poked from the 1940 page. It should not be used without expert technical assistance unless it is part of a prescribed software update procedure.

2. FORMAT

UPD:APPLY:UNIXCMD,UPNM="a";

3. EXPLANATION OF MESSAGE

a = Software update: specified as BMWyy-nnnn, TMPyy-nnnn (temporary), or CFTyy-nnnn where BMW, TMP, and CFT identify the category of software update, yy is the last two digits of the year issued, and nnnn is the sequence number identifying the software update ("" is required).

4. SYSTEM RESPONSE

PF = Printout follows. Followed by a UPD:APPLY output message.

5. REFERENCES

Input Message(s):

UPD:APPLY-UNIX
UPD:BKOUT
UPD:DISPLAY
UPD:OFC

Output Message(s):

UPD:SYSERR
UPD:USRERR

Other Manual(s):
235-105-210  *Routine Operations and Maintenance*

MCC Display Page(s):

- 1950 (PROGRAM UPDATE MAINTENANCE)
- 1960 (INSTALL BWM)
UPD:AUTO
Software Release: 5E14 and later
Command Group: SFTMGT
Application: 5.3B
Type: Input

1. PURPOSE
Requests that the status of software update (SU) process automation be determined and/or changed. This input message may be used to inhibit, allow, stop, resume, cancel or request the current status of SU process automation.

2. FORMAT
UPD:AUTO:a[,REASON=b];

3. EXPLANATION OF MESSAGE
a = Request type. Valid value(s):
ALW = Allow SU process automation. This allows an SU to be scheduled for automatic installation.
CANCEL = Cancels the scheduled automatic installation for the SU that is currently scheduled for automatic installation. May also be used to cancel an SU that has stopped its automatic installation.
INH = Inhibit SU process automation. This prevents an SU from being scheduled for automatic installation.
RESUME = Resume a previously stopped or aborted automated SU installation.

Note: This should NEVER appear in an SU MSGS file, and it should only be used by the office personnel to resume an automated SU installation that was previously stopped or aborted.

STATUS = Show the current status of SU process automation. If it is inhibited this option shows why it is inhibited by displaying the contents of the reason field.
STOP = Stop the automated SU installation that is currently in progress.

Note: This causes an office alarm to fire (MAJOR or MINOR alarm, as set in the SU automation office profile).

b = Reason that the office is inhibiting SU process automation (maximum length = 50 characters).

4. SYSTEM RESPONSE
NG = No good. The software update process automation feature is not available.
PF = Printout follows. The request has been accepted. Followed by a UPD:AUTO output message.

5. REFERENCES
Input Message(s):
UPD: AUTOCHK
UPD: AUTOPROFILE
UPD: AUTOSCHED

Output Message(s):

UPD: AUTO
UPD: AUTOCHK
UPD: AUTOPROFILE
UPD: AUTOSCHED

Other Manual(s):
235-105-110 System Maintenance Requirements and Tools
235-105-210 Routine Operations and Maintenance

MCC Display Page(s):

1941 (BWM AUTOMATION SCHEDULING)
1942 (BWM AUTOMATION OFFICE PROFILE)
1943 (BWM AUTOMATION HEALTH CHECK)
1950 (PROGRAM UPDATE MAINTENANCE)
1960 (INSTALL BWM)
UPD:AUTOCHK

Software Release: 5E14 and later
Command Group: SFTMGT
Application: 5.3B
Type: Input

1. PURPOSE

Requests that an office health check be performed (UPD:AUTOCHK) or requests that the results of the last office health check be displayed (UPD:AUTOCHK:STATUS).

2. FORMAT

UPD:AUTOCHK: [STATUS];

3. EXPLANATION OF MESSAGE

STATUS = Show the status of the last office health check that was performed.

4. SYSTEM RESPONSE

NG = No good. The software update process automation feature is not available.

PF = Printout follows. The request has been accepted. Followed by a UPD:AUTOCHK output message.

5. REFERENCES

Input Message(s):

UPD:AUTO
UPD:AUTOPROFILE
UPD:AUTOSCHED

Output Message(s):

UPD:AUTO
UPD:AUTOCHK
UPD:AUTOPROFILE
UPD:AUTOSCHED

Other Manual(s):
235-105-110 System Maintenance Requirements and Tools
235-105-210 Routine Operations and Maintenance

MCC Display Page(s):
1941 (BWM AUTOMATION SCHEDULING)
1942 (BWM AUTOMATION OFFICE PROFILE)
1943 (BWM AUTOMATION HEALTH CHECK)
1950 (PROGRAM UPDATE MAINTENANCE)
1960 (INSTALL BWM)
UPD:AUTOPROFILE

Software Release: 5E14 and later
Command Group: SFTMGT
Application: 5,3B
Type: Input

1. PURPOSE

Requests that the software update (SU) process automation office profile be changed according to the arguments and values specified in the input message. This SU process automation office profile is used when an SU is scheduled to be automatically installed. The values contained in the office profile are used as defaults when an SU is scheduled in the case where other information is not given.

For example, if an SU is scheduled for automatic installation and no installation state is specified, then the installation state defaults to what is listed in the office profile (‘a’ in this case).

Note: The valid values allowed for each argument are listed with the description of each argument.

2. FORMAT

UPD:AUTOPROFILE: ({ [INSTATE="a"], [SOAKTM=b], [ALARMLVL="c"], [CSCANS="d"],
[WARNTM=e], [PROCINIT=f], [CLRBMW="g"], [SUNOFF=h-i], [MONOFF=h-i],
[TUEOFF=h-i], [WEDOFF=h-i], [THUOFF=h-i], [FRIOFF=h-i], [SATOFF=h-i],
[HCON=j], [HCOFF=k], [HCINFO=l] });

3. EXPLANATION OF MESSAGE

a = The install state. Valid value(s):
  OFC
  SOAK
  VFY

b = The length of soak time desired for an SU that is automatically installed in the form HHMM.
  HH = Hours.
  MM = Minutes.

c = The alarm level that should go off when an automated SU installation halts for any reason (MAJOR or MINOR). This also controls the level of alarm that fires for the advance warning message.

d = State indicating whether or not SU process automation update office profile input messages may be issued over the CSCANS interface (Y or N).

e = The time interval before SU automation starts that a warning message is desired in the form HHMM.
  HH = Hours.
  MM = Minutes.

For example, if set to 0030 then a warning message prints out and an office alarm goes off 30 minutes before a scheduled SU begins automatic installation.
f = The number of hours since any processor initialization took place for AM, SM, CMP in the form HH.
   HH = Hours.

g = State indicating whether or not SU process automation should remove the SU after it has completed the make official stage (Y or N).

h = The beginning of the time interval that SU automation is not allowed, for the given day in the form HHMM (from 0000 to 2359).

i = The end of the time interval that SU automation is not allowed, for the given day in the form HHMM (from 0000 to 2359).

j = A number indicating the health check condition that should be turned ON. Valid value(s) shown in Exhibit A.

k = A number indicating the health check condition that should be turned OFF. Valid value(s) shown in Exhibit A.

l = A number indicating the health check condition for which a more detailed explanation is desired. Valid value(s) shown in Exhibit A.

<table>
<thead>
<tr>
<th>Value</th>
<th>Description</th>
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<tr>
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<td>11</td>
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<td>24</td>
<td>FILESPACE</td>
</tr>
</tbody>
</table>

4. SYSTEM RESPONSE

NG = No good. The software update process automation feature is not available.

PF = Printout follows. The request has been accepted. Followed by a UPD:AUTOPROFILE output message.

5. REFERENCES
Input Message(s):

UPD: AUTO
UPD: AUTOCHK
UPD: AUTOSCHED

Output Message(s):

UPD: AUTO
UPD: AUTOCHK
UPD: AUTOPROFILE
UPD: AUTOSCHED

Other Manual(s):
235-105-110  System Maintenance Requirements and Tools
235-105-210  Routine Operations and Maintenance

MCC Display Page(s):

1941 (BWM AUTOMATION SCHEDULING)
1942 (BWM AUTOMATION OFFICE PROFILE)
1943 (BWM AUTOMATION HEALTH CHECK)
1950 (PROGRAM UPDATE MAINTENANCE)
1960 (INSTALL BWM)
UPD:AUTOSCHED

Software Release: 5E14 and later
Command Group: SFTMGT
Application: 5,3B
Type: Input

1. PURPOSE

Requests that the named software update (SU) be scheduled for automatic installation (UPNM option) or requests
the status of the currently scheduled SU (STATUS option). It is important to note that if values are given for DATE,
time, and/or STATE, then these values are used only for the SU currently being scheduled and these values will
override the default values stored in the office profile. If no values are given, then the default values are used from
the office profile.

2. FORMAT

UPD:AUTOSCHED:STATUS [,UPNM="a"] [,DATE=b] [,TIME=c] [,STATE="d"]

3. EXPLANATION OF MESSAGE

STATUS = Show the status of the SU currently scheduled for automatic installation, if any.

a = The 10 character software update name.

b = The date to automatically install the SU in the form MMDDYY.
   DD = Day.
   MM = Month.
   YY = Year.

c = The time to automatically install the SU in the form HHMM.
   HH = Hour.
   MM = Minute.

d = The install state to automatically install the SU. Valid value(s):
   OFC
   SOAK
   VFY

4. SYSTEM RESPONSE

NG = No good. The software update process automation feature is not available.

PF = Printout follows. The request has been accepted. Followed by a UPD:AUTOSCHED output
message.

5. REFERENCES

Input Message(s):
Output Message(s):

- UPD: AUTO
- UPD: AUTOCHK
- UPD: AUTOPROFILE
- UPD: AUTOSCHED

Other Manual(s):
- 235-105-110 System Maintenance Requirements and Tools
- 235-105-210 Routine Operations and Maintenance

MCC Display Page(s):

- 1941 (BWM AUTOMATION SCHEDULING)
- 1942 (BWM AUTOMATION OFFICE PROFILE)
- 1943 (BWM AUTOMATION HEALTH CHECK)
- 1950 (PROGRAM UPDATE MAINTENANCE)
- 1960 (INSTALL BWM)
UPD:BKOUT

Software Release: 5E14 and later
Command Group: SFTMGT
Application: 5,3B
Type: Input

1. PURPOSE

Requests that software updates be backed out. Software updates can be backed out only in the reverse order in which they were applied.

2. FORMAT

UPD:BKOUT: {UPNM="a" | ALL} [,OFC];

3. EXPLANATION OF MESSAGE

ALL = Remove all temporary software updates active in the system.
OFC = Backout software update 'a' even though it is official.
a = Software update: specified as BWMyy-nnnn, TMPyy-nnnn (temporary), or CFTyy-nnnn where BWM, TMP, and CFT identify the category of software update, yy is the last two digits of the year, and nnnn is the sequence number identifying the software update (" " is required).

4. SYSTEM RESPONSE

PF = Printout follows. The request has been accepted. Followed by one or more UPD:BKOUT output messages.

5. REFERENCES

Input Message(s):

UPD:APPLY-BYTER
UPD:APPLY-FILER
UPD:APPLY-FUNCR
UPD:DISPLAY

Output Message(s):

UPD:BKOUT
UPD:SYSERR
UPD:USRERR

Other Manual(s):

235-105-210 Routine Operations and Maintenance

MCC Display Page(s):
1950 (PROGRAM UPDATE MAINTENANCE)
1960 (INSTALL BWM)
**UPD:BLDBOOT**

**Software Release:** 5E14 and later  
**Command Group:** SFTMGT  
**Application:** 5,3B  
**Type:** Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. **PURPOSE**

Requests that the administrative module (AM) minimum-configuration or full-configuration boot image be updated. This message replaces UPD:APPDMRT and UPD:DMRT input messages only.

**WARNING:** All existing data in the targeted boot image will be destroyed.

2. **FORMAT**

UPD:BLDBOOT [, BOOTIMAGE="a"] [, SGDB="b"] [, SGGEN="c"] [, SHADOW="d"];

3. **EXPLANATION OF MESSAGE**

   a = Name of boot images to be generated. The default ("/dmert") rebuilds the minimum-configuration boot image. To rebuild the full-configuration boot image, use "/appdmert" (" " is required).

   b = Name of the system generation (SG) data base to be used in building the boot image. The default data base for the minimum-configuration boot image is /data base/dmert.sg. The default data base for the full-configuration boot image is /data base/appdmert.sg (" " is required).

   c = Pathname of the process to be executed to build the boot image. Refer to the Routine Operations and Maintenance manual for definitions of file and pathname. The default process pathname is /bin/isgen (" " is required).

   d = Pathname of a file (shadow file) used in building the boot image. The file must consist entirely of adequate contiguous space and is essential to safe updating of the boot image. The default shadow file is /..dmert (" " is required).

4. **SYSTEM RESPONSE**

**PF** = Printout follows. The request has been accepted. Followed by a UPD:BLDBOOT output message.

5. **REFERENCES**

Output Message(s):

   UPD:BLDBOOT  
   UPD:SYSERR  
   UPD:USRERR

Other Manual(s):

235-105-210  Routine Operations and Maintenance
MCC Display Page(s):

1950 (PROGRAM UPDATE MAINTENANCE)
1960 (INSTALL BWM)
UPD:BLOCK

Software Release: 5E14 and later
Command Group: SFTMGT
Application: 5,3B
Type: Input

1. PURPOSE

Requests that an official software update be blocked or inhibited from being backed out. This message blocks the software update message from being backed out and any other software updates below the one specified.

The UPD:BLOCK message should only be used when a software update name is specified. If it is necessary to block all software updates that have been made official, the UPD:BLOCK message should be used with the last software update that has been made official. This would block the last official software update and all previous official software updates.

2. FORMAT

UPD:BLOCK:UPNM="a";

3. EXPLANATION OF MESSAGE

a = Software update: specified as BWMyy-nnnn, TMPyy-nnnn (temporary), or CFTyy-nnnn where BWM, TMP, and CFT identify the category of software update, yy is the last two digits of the year issued, and nnnn is the sequence number identifying the software update (" " is required).

4. SYSTEM RESPONSE

PF = Printout follows. The request has been accepted. Followed by one or more UPD:BKOUT output messages.

5. REFERENCES

Input Message(s):

UPD:BKOUT

Output Message(s):

UPD:BKOUT
UPD:SYSERR
UPD:USRERR

Other Manual(s):
235-105-210  Routine Operations and Maintenance

MCC Display Page(s):
1950 (PROGRAM UPDATE MAINTENANCE)
1960 (INSTALL BWM)
UPD:BOLO

Software Release: 5E14 and later
Command Group: SFTMG
Application: 5,3B
Type: Input

1. PURPOSE

Requests that the last official software update be backed out. No more than three official software updates are permitted to be backed out. The three software update names are listed on MCC Display Page 1950 next to indicators showing the back-out level of each software update. The "LAST OFC" software update was most recently applied and made official. The "2nd FROM TOP" software update was made official before the "LAST OFC" software update. The "3rd FROM TOP" software update was applied and made official before both the "2nd FROM TOP" software update and the "LAST OFC" software update.

As a new software update is made official, it becomes the "LAST OFC" software update, and the previous "LAST OFC" and "2nd FROM TOP" software updates are moved down to be the "2nd FROM TOP" and "3rd FROM TOP" software updates, respectively. The previous "3rd FROM TOP" software update can no longer be backed out, and is therefore removed from the list of software updates permitted to be backed out.

Executing this input message (UPD:BOLO) in effect requests the back-out of the "LAST OFC" software update. Upon successful completion, the back-out removes the "LAST OFC" software update from the list of software updates permitted to be backed out and moves the "2nd FROM TOP" and "3rd FROM TOP" software updates up to be the new "LAST OFC" and "2nd FROM TOP" software updates, respectively. After an official back-out there is no "3rd FROM TOP" software update because one of the three software updates which could be backed out has been backed out. A software update name is added to the back-out list only when that software update is made official on the switch.

2. FORMAT

UPD:BOLO[:UCL];

3. EXPLANATION OF MESSAGE

UCL = Override the existence of the file odd.bwm, which would otherwise cause the UPD:BOLO input message to abort. The odd.bwm file contains ODD related changes associated with the software update.

4. SYSTEM RESPONSE

OK = Good. The request has been accepted. Followed by one or more UPD:BKOUT output messages and one UPD:BOLO output message.

5. REFERENCES

Input Message(s):

UPD:APPLY-BYTER
UPD:APPLY-FILER
UPD:APPLY-FUNCR
UPD:BKOUT
UPD:DISPLAY
Output Message(s):

UPD: BKOUT
UPD: BOLO
UPD: SYSERR
UPD: USRERR

Other Manual(s):
235-105-210  Routine Operations and Maintenance

MCC Display Page(s):

1950 (PROGRAM UPDATE MAINTENANCE)
1960 (INSTALL BWM)
UPD:CCS-CUTOVER

Software Release: 5E15 and later
Command Group: CCS
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Used during the common network interface (CNI) to host global switching module (GSM) conversion procedure to copy and initialize integrated services user part (ISUP) trunk member data in the host GSM processor. The data is obtained from static data relations in the CMP processor and copied to the host GSM processor. Any ISUP trunk which is currently defined as using the CNI platform will be populated into the GSM platform relations to be used for distributing the incoming ISUP messages to the trunk SMs.

WARNING: This command uses the database manager to update internal switch cross processor static data. The command is allowed to execute only when the RC/V View 8.15 (CCS OFFICE PARAMETERS) field CUTOVER is set to the value PRECUT. Additionally, the host GSM processor is defined on the RC/V View 8.15 field HOST PLAT 2. There may also be many relation tuples requiring an update, and thus the command may take a significant amount of time to complete. The command will make a status report once every minute until it has completed.

2. FORMAT

UPD:CCS,CUTOVER[,BKOUT];

3. EXPLANATION OF MESSAGE

BKOUT = Used to undo a previous invocation of the command. Only the previously inserted ISUP trunk data resulting from the running the UPD:CCS-CUTOVER input message is deleted from the host GSM processor.

4. SYSTEM RESPONSE

PF = Printout follows. The request has been accepted. Followed by the UPD:CCS-CUTOVER output message.

NG = No good. May also include:

- OFFICE NOT IN CUTOVER MODE = The update cannot be performed because the office is not in the correct state. RC/V View 8.15 field “CUTOVER MODE” must be set to the values PRECUT or POSTCUT for this input message to succeed.

- HOST PLAT 2 IS NOT A VALID GSM = The update cannot be performed because the GSM number specified on RC/V View 8.15 field “HOST PLAT 2” is not currently defined as a valid host GSM or does not exist. This indicates a problem with the internal data.

- CNI PRIMARY OPC NOT POPULATED ON HOST GSM = The update cannot be performed because the primary OPC of the CNI is not currently defined as the primary or alias OPC of the host GSM.
RL = Retry later. May also include:
- GSM NOT AVAILABLE = The GSM is not currently available, due to initialization or isolation.
- PREVIOUS REQUEST IN PROGRESS = A previous UPD:CCS request is being serviced.
- SYSTEM BUSY = A system resource error was encountered that prohibits the input message from running. OSDS on the AM processor failed to transmit a message to the CMP processor.

5. REFERENCES

Input Message(s):

  UPD:CCS-PSUMOD
  OP:CCS-GSM

Output Message(s):

  UPD:CCS-CUTOVER
  UPD:CCS-PSUMOD
  OP:CCS-GSM

Other Manual(s):

  235-200-115  CNI Common Channel Signaling
  235-200-116  Signaling Gateway Common Channel Signaling

MCC Display Page(s):

  118  CNI STATUS
  1530  HOST GSM STATUS

RC/V View(s):

  8.15  CCS OFFICE PARAMETERS
UPD:CCS-PSUMOD
Software Release: 5E15 and later
Command Group: CCS
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Used during the common network interface (CNI) platform to host global switching module (GSM) platform conversion procedure to update internal integrated services user part (ISUP) trunk group/member and transaction capability application part (TCAP) application relational data for the "psu_mod" attribute. The psu_mod attribute indicates the target platform that is to be used to transport the SS7 message when the office is not in the platform conversion mode.

The input message is used towards the end of the conversion procedure to update this internal data to indicate the new signaling platform is the host GSM instead of the CNI. It may also be used during the backout of the conversion to indicate that the CNI platform is to return as the desired platform.

WARNING: This input message uses the database manager to update internal switch cross processor static data. The command is allowed to execute only when the RC/V View 8.15 (CCS OFFICE PARAMETERS) field CUTOVER is set to the value POSTCUT. There may also be many relation tuples requiring an update and the input message may take a significant amount of time to complete. The input message will make a status report once every minute until it has completed.

2. FORMAT

UPD:CCS,PSUMOD,OLD=a,NEW=b;

3. EXPLANATION OF MESSAGE

\[ a \]
= The platform number that is being switched from. When converting from the CNI platform to the host GSM platform, this parameter represents the CNI. If the platform conversion is being backed out, this parameter represents the host GSM. Valid value(s):
\[ 0 \] = CNI platform.
\[ 1-192 \] = GSM number.

\[ b \]
= The platform number that is being switched to. When converting from the CNI platform to the host GSM platform, this parameter represents the host GSM. If the platform conversion is being backed out, this parameter represents the CNI. Valid value(s):
\[ 0 \] = CNI platform.
\[ 1-192 \] = GSM number.

4. SYSTEM RESPONSE

PF
= Printout follows. The request has been accepted. Followed by the UPD:CCS-PSUMOD output message.

NG
= No good. May also include:
- OFFICE NOT IN POST CUTOVER MODE = The update cannot be performed because the office is not in the correct state. RC/V View 8.15 field "CUTOVER MODE" must be set to the value POSTCUT for this input message to succeed.
- CNI PRIMARY OPC NOT POPULATED ON HOST GSM = The update cannot be performed because the GSM number specified on RC/V View 8.15 field "HOST PLAT 2" is not currently defined as the valid host GSM.
- HOST PLAT 2 IS NOT A VALID GSM = The update cannot be performed because the GSM number specified on RC/V View 8.15 field "HOST PLAT 2" is not currently defined as a valid host GSM or does not exist. This indicates a problem with the internal data.
- GSM DOES NOT MATCH HOST PLAT 2 = The update cannot be performed because the GSM number specified in either the "NEW" or "OLD" field does not match RC/V View 8.15 field "HOST PLAT 2".
- OLD OR NEW PARAMETER MUST BE THE CNI = The update cannot be performed because one of the input parameters must be the CNI, represented as the value 0.

RL = Retry later. May also include:
- GSM NOT AVAILABLE = The GSM is not currently available, due to initialization or isolation.
- PREVIOUS REQUEST IN PROGRESS = A previous UPD:CCS request is being serviced.
- SYSTEM BUSY = A system resource error was encountered which prohibits the command from running. OSDS on the AM processor failed to transmit a message to the CMP processor.

5. REFERENCES

Input Message(s):

UPD:CCS-CUTOVER
OP:CCS-GSM

Output Message(s):

UPD:CCS-PSUMOD
UPD:CCS-CUTOVER
OP:CCS-GSM

Other Manual(s):
235-200-115 CNI Common Channel Signaling
235-200-116 Signaling Gateway Common Channel Signaling

MCC Display Page(s):
118 CNI STATUS
1530 HOST GSM STATUS

RC/V View(s):
8.15 CCS OFFICE PARAMETERS
UPD:CLR

Software Release: 5E14 and later
Command Group: SFTMGT
Application: 5,3B
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Requests that one or more software updates be cleared from the administrative module (AM) field update directory.

WARNING: Incorrect use of this message can result in the removal of needed files.

2. FORMAT

UPD:CLR:BWM="a"[-"a"[-"a"

3. EXPLANATION OF MESSAGE

a = Software update name. A list of 1 to 10 software update names may be specified, in the form
BWMyy-nnnn, TMPyy-nnnn (temporary), or CFTyy-nnnn where BWM, TMP, and CFT identify the
category of software update, yy is the last two digits of the year, and nnnn is the sequence number
identifying the software update.

4. SYSTEM RESPONSE

PF = Printout follows. The request has been accepted.

5. REFERENCES

Input Message(s):
UPD:CLRBWM
UPD:OFC

Output Message(s):
UPD:CLR
UPD:SYSERR
UPD:USRERR

Other Manual(s):
235-105-110 System Maintenance Requirements and Tools
235-105-210 Routine Operations and Maintenance
UPD:CSCANS-REPT

Software Release: 5E14 and later
Command Group: SFTMGT
Application: 5,3B
Type: Input

1. PURPOSE

Requests a report containing the current status of the active file receiving process from the Customer Service Computer Access Network System (CSCANS) interface.

2. FORMAT

UPD:CSCANS:REPORT;

3. EXPLANATION OF MESSAGE

No variables.

4. SYSTEM RESPONSE

PF = Printout follows. The request has been accepted, and a UPD:CSCANS-REPT output message will follow.

RL = Retry later.

5. REFERENCES

Input Message(s):

UPD:CSCANS-STOP
UPD:INITPW

Output Message(s):

UPD:CSCANS-REPT
UPD:CSCANS-STOP
UPD:INITPW

Other Manual(s):

235-105-210  Routine Operations and Maintenance

MCC Display Page(s):

1950 (PROGRAM UPDATE MAINTENANCE)
1960 (INSTALL BWM)
UPD:CSCANS-STOP
Software Release: 5E14 and later
Command Group: SFTMGT
Application: 5,3B
Type: Input

1. PURPOSE
Requests that the download of software update files from the remote source be terminated. If file transmission has begun, a session-disconnect message is sent to the remote end to notify the Customer Service Computer Access Network System (CSCANS) of the termination.

2. FORMAT
UPD:CSCANS:STOP;

3. EXPLANATION OF MESSAGE
No variables.

4. SYSTEM RESPONSE
PF = Printout follows. The request has been accepted, and a UPD:CSCANS-STOP output message will follow.
RL = Retry later.

5. REFERENCES
Input Message(s):

UPD:CSCANS-REPT

Output Message(s):

UPD:CSCANS
UPD:CSCANS-STOP

Other Manual(s):
235-105-210 Routine Operations and Maintenance

MCC Display Page(s):
1950 (PROGRAM UPDATE MAINTENANCE)
1960 (INSTALL BWM)
UPD:DISPLAY

Software Release: 5E14 and later
Command Group: SFTMGT
Application: 5,3B
Type: Input

1. PURPOSE

Requests that information about administrative module (AM) software updates be displayed. The updates are selected on the basis of parameters which supply cumulative restrictions.

2. FORMAT

UPD:DISPLAY[:UPNM="a"][,STATUS=b][,BACKLOG][,SUM][,V];

3. EXPLANATION OF MESSAGE

BACKLOG = Updates that are in the backlog update database (BUD) file.

SUM = A short summary of the last official (BWM), user (CFT), and temporary (TMP) software updates and a list of active users.

V = A short version (verbose) of all updates on the switch.

a = Software update name.

b = Status of update or software update. Valid value(s):
   OFC = Official.
   TMP = Temporary.

4. SYSTEM RESPONSE

PF = Printout follows. The request has been accepted. Followed by a UPD:DISPLAY output message.

5. REFERENCES

Input Message(s):

   UPD:APPLY-BYTER
   UPD:APPLY-FILER
   UPD:APPLY-FUNCR
   UPD:BLDBOOT
   UPD:OFC

Output Message(s):

   UPD:DISPLAY
   UPD:SYSERR
   UPD:USRERR

Other Manual(s):
System Maintenance Requirements and Tools

Routine Operations and Maintenance

MCC Display Page(s):

  1950 (PROGRAM UPDATE MAINTENANCE)
  1960 (INSTALL BWM)
1. PURPOSE

To enable switching module (SM) or communication module processor (CMP) incore memory to be dumped to a file.

Format 1 is to be used to dump CMP memory to a file.

Format 2 is to be used to dump SM memory to a file.

Format 3 is to be used to dump SM memory to a file using a peripheral image address. This input message may be useful for problem resolution that involves examination of core memory. For example, if a range of memory in a certain SM is suspect, then this range of memory can be dumped to a file. Then the same range of memory in another SM of the same configuration can be dumped to a second file. Then *UNIX*® utilities can be used to compare to two files. Format 1 is for the CMP only. This input message requires that the primary or mate processor be specified since the primary and mate processors of the CMP function independently and they may or may not have the same core memory contents.

Format 2 is for the SM only and it does not support the primary or mate options because the mate module controller/time slot interchange (MCTSI) is continually updated [when in standby (STDBY) mode] with the contents of the active MCTSI. With the 'PADDR' option the user is requesting to dump a physical address in an SM. When the 'VADDR' option is given, the user is requesting a virtual address which will be internally mapped to the corresponding physical address in the requested SM.

Format 3 is for the SM only and does not support the mate option. This format is useful when the user wishes to dump SM memory based on a peripheral image address. This will get internally mapped to the corresponding physical address in the requested SM. The file that is created is a data file and can not be examined with tools or editors that expect American standard code for information interchange (ASCII) text input.

**WARNING:** The amount of data that can be dumped is not restricted. The size of the output file will be the number of bytes that are specified after the L option. Thus all output files should only be placed in file systems that are designed to hold temporary files. Creating files in other file systems may interfere with other routine activities.

2. FORMAT

[1] **UPD:DUMPCORE:DATA,CMP=a,{PRIM|MATE}[,TARGET=c],ADDR=d...L=e,OUTFILE=f**;


[3] **UPD:DUMPCORE:DATA,SM=b,PERF=c,PADDR=d,L=e,OUTFILE=f**;

3. EXPLANATION OF MESSAGE

- **a** = CMP number. Refer to the APP:RANGES appendix in the Appendixes section of the Input
Messages manual.

b = SM number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

c = Targets. Valid value(s):

CMP
DDMA
DNUSCC
DNUSTMX
DSC3
DSP13K
DSP8K
DSPEVRC
GDSF
HDSU
HSAS
IDCUCCP
IDCULSI
IP3S
IP4F
IP4I
IP4IF
ISLU
ISLU2
ISTF
LDSU
LDSF
MSGH
ODMA
O1OP
PH2A
PH2G
PH3C
PH3S
PH4A
PH4G
PH4I
PHA1A
PI
PI2
PHV1C
PHV3C
PHV4C
RAF
SAS
SM
SM2K
SMPMH
SMPMHLB
V3DACP
V4D13K
V4D8K
V4DACP
V4DEVR1
V4DEVR2
V4DEVR3
V4DVSP
V4DISL

d = Address to start memory dump at.
e = Number of bytes to dump from core memory.
f = Full path name to the output file used to store the data dumped from core memory.

4. SYSTEM RESPONSE

PF = Printout follows. The message was accepted and the dump of incore memory has begun. This will be followed by a completion message when the dump successfully finishes.

5. REFERENCES

Output Message(s):

UPD:DUMPCORE
UPD:SYSERR
UPD:USRERR

Input Appendix(es):

APP:RANGES
UPD:DUMPCORE-B

Software Release: 5E16(1) only
Command Group: SFTUTIL
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

To enable switching module (SM) or communication module processor (CMP) incore memory to be dumped to a file.

Format 1 is to be used to dump CMP memory to a file.

Format 2 is to be used to dump SM memory to a file.

Format 3 is to be used to dump SM memory to a file using a peripheral image address.

This input message may be useful for problem resolution that involves examination of core memory. For example, if a range of memory in a certain SM is suspect, then this range of memory can be dumped to a file. Then the same range of memory in another SM of the same configuration can be dumped to a second file. Then UNIX® utilities can be used to compare to two files.

Format 1 is for the CMP only. This input message requires that the primary or mate processor be specified since the primary and mate processors of the CMP function independently and they may or may not have the same core memory contents.

Format 2 is for the SM only and it does not support the primary or mate options because the mate module controller/time slot interchange (MCTSI) is continually updated [when in standby (STDBY) mode] with the contents of the active MCTSI.

With the 'PADDR' option the user is requesting to dump a physical address in an SM. When the 'VADDR' option is given, the user is requesting a virtual address which will be internally mapped to the corresponding physical address in the requested SM.

Format 3 is for the SM only and does not support the mate option. This format is useful when the user wishes to dump SM memory based on a peripheral image address. This will get internally mapped to the corresponding physical address in the requested SM.

The file that is created is a data file and can not be examined with tools or editors that expect American standard code for information interchange (ASCII) text input.

WARNING: The amount of data that can be dumped is not restricted. The size of the output file will be the number of bytes that are specified after the L option. Thus all output files should only be placed in file systems that are designed to hold temporary files. Creating files in other file systems may interfere with other routine activities.

2. FORMAT

[1] UPD:DUMPCORE:DATA,CMP=a, {PRIM|MATE} [,TARGET=c], ADDR=d . . .
   . . . , L=e, OUTFILE=f;
3. EXPLANATION OF MESSAGE

a  = CMP number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

b  = SM number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

c  = Targets. Valid value(s):

  CMP
  DDMA
  DNUSCC
  DNUSTMX
  DSC3
  DSP13K
  DSP8K
  DSPEVRC
  GDSF
  HDSU
  HSAS
  IDCUCCP
  IDCULSI
  IP22
  IP3S
  IP4F
  IP4I
  IP4IF
  ISLU
  ISLU2
  ISTF
  LDSU
  LDSF
  MH32
  MHEIB
  MHLB
  MHPPC
  MHPPCLB
  MSGH
  ODMA
  OIOP
  OIU24
  PH2A
  PH2G
  PH22I
  PH22S
  PH3C
  PH3S
  PH4A
  PH4G
PH4I
PHA1A
PHA2A
PHE2E
PI
PI2
PHV1C
PHV3C
PHV4C
PHV5C
RAF
SAS
SM
SM2K
V3DACP
V4D13K
V4D8K
V4DACP
V4DEVR1
V4DEVR2
V4DEVR3
V4DVSP
V4DISL
V5D13K
V5D8K
V5DACP
V5DEVR1
V5DEVR2
V5DEVR3
V5DVSP
V5DISL

d = Address to start memory dump at.
e = Number of bytes to dump from core memory.
f = Full path name to the output file used to store the data dumped from core memory.

4. SYSTEM RESPONSE

PF = Printout follows. The message was accepted and the dump of incore memory has begun. This will be followed by a completion message when the dump successfully finishes.

5. REFERENCES

Output Message(s):

UPD:DUMPCORE
UPD:SYSERR
UPD:USRERR

Input Appendix(es):
UPD:DUMPCORE-C

Software Release: 5E16(2) and later
Command Group: SFTUTIL
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

To enable switching module (SM) or communication module processor (CMP) incore memory to be dumped to a file.

Format 1 is to be used to dump CMP memory to a file.

Format 2 is to be used to dump SM memory to a file.

Format 3 is to be used to dump SM memory to a file using a peripheral image address.

This input message may be useful for problem resolution that involves examination of core memory. For example, if a range of memory in a certain SM is suspect, then this range of memory can be dumped to a file. Then the same range of memory in another SM of the same configuration can be dumped to a second file. Then UNIX® utilities can be used to compare to two files.

Format 1 is for the CMP only. This input message requires that the primary or mate processor be specified since the primary and mate processors of the CMP function independently and they may or may not have the same core memory contents.

Format 2 is for the SM only and it does not support the primary or mate options because the mate module controller/time slot interchange (MCTSI) is continually updated [when in standby (STDBY) mode] with the contents of the active MCTSI.

With the 'PADDR' option the user is requesting to dump a physical address in an SM. When the 'VADDR' option is given, the user is requesting a virtual address which will be internally mapped to the corresponding physical address in the requested SM.

Format 3 is for the SM only and does not support the mate option. This format is useful when the user wishes to dump SM memory based on a peripheral image address. This will get internally mapped to the corresponding physical address in the requested SM.

The file that is created is a data file and can not be examined with tools or editors that expect American standard code for information interchange (ASCII) text input.

WARNING: The amount of data that can be dumped is not restricted. The size of the output file will be the number of bytes that are specified after the L option. Thus all output files should only be placed in file systems that are designed to hold temporary files. Creating files in other file systems may interfere with other routine activities.

2. FORMAT

[1] UPD:DUMPCORE:DATA,CMP=a,{PRIM|MATE}[,[TARGET=c],ADDR=d]...L=e,OUTFILE=f;
3. EXPLANATION OF MESSAGE

a  = CMP number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

b  = SM number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

c  = Targets. Valid value(s):

  CMP
  DDMA
  DNUSCC
  DNUSTMX
  DSC3
  DSP13K
  DSP8K
  DSPEVRC
  GDSF
  HDSU
  HSAS
  IDCUCCP
  IDCULSI
  IP22
  IP3S
  IP4F
  IP4I
  IP4IF
  ISLU
  ISLU2
  ISTF
  LDSU
  LDSF
  MH32
  MHEIB
  MHLB
  MHPPC
  MHPPCLB
  MSGH
  ODMA
  OIOP
  OIU24
  OIU1P
  PH2A
  PH2G
  PH22I
  PH22S
  PH3C
  PH3S
  PH4A
PH4G
PH4I
PHA1A
PHA2A
PHE2E
PI
PI2
PHV1C
PHV3C
PHV4C
PHV5C
RAF
SAS
SM
SM2K
SM2KFX
V3DACP
V4D13K
V4D8K
V4DACP
V4DEVR1
V4DEVR2
V4DEVR3
V4DVSP
V4DISL
V5D13K
V5D8K
V5DACP
V5DEVR1
V5DEVR2
V5DEVR3
V5DVSP
V5DISL

d = Address to start memory dump at.
e = Number of bytes to dump from core memory.
f = Full path name to the output file used to store the data dumped from core memory.

4. SYSTEM RESPONSE

PF = Printout follows. The message was accepted and the dump of incore memory has begun. This will be followed by a completion message when the dump successfully finishes.

5. REFERENCES

Output Message(s):

UPD:DUMPCORE
UPD:SYSERR
UPD:USRERR
Input Appendix(es):

APP : RANGES
UPD:EXPAND

Software Release: 5E14 and later
Command Group: SFTMGT
Application: 5,3B
Type: Input

1. PURPOSE

Requests that the software update expansion process that takes place automatically during the download of a compressed software update (SU) be manually stopped (STOP), or requests that any compressed files in the software update specified (UPNM=a) be expanded to their original size so that software update application may begin immediately.

Note: the manual expansion is needed only if expansion was previously inhibited (through use of the STOP option), or if the expansion for the SU was previously aborted.

2. FORMAT

UPD:EXPAND: (UPNM="a" | STOP);

3. EXPLANATION OF MESSAGE

a = The software update name. All files in the software update package specified will be expanded to the original file size so that software update application may follow.

4. SYSTEM RESPONSE

OK = Good. The request has been accepted. Followed by a UPD:EXPAND output message.

5. REFERENCES

Input Message(s):

IN:REMOTE-REPT
UPD:CSCANS-REPT

Output Message(s):

IN:REMOTE
IN:REMOTE-ERROR
IN:REMOTE-INIT
IN:REMOTE-START
IN:REMOTE-STOP
UPD:EXPAND
UPD:CSCANS-REPT

Other Manual(s):
235-105-210 Routine Operations and Maintenance

MCC Display Page(s):
1950 (PROGRAM UPDATE MAINTENANCE)
1960 (INSTALL BWM)
UPD:FLASH-DFC

Software Release: 5E14 and later
Command Group: N/A
Application: 5,3B
Type: Input

1. PURPOSE

Requests a download of a pumpcode file into a small computer system interface (SCSI) device file controller's (DFC) non-volatile FLASH memory.

The input message can be used to request a download in three different ways.

- Request the DFC driver automatically perform a download using a disk file constructed from fields in the DFC UCB record.
- Request the DFC driver automatically perform a download using a disk file constructed from version information stored in HA memory.
- Request that a user specified file be downloaded.

The input message can also be used to check the integrity of a pumpcode file that is stored as a disk file.

Note: When the downloading is to be done automatically by the DFC driver; the driver will use the information stored in the DFC's UCB record to build the pumpcode file name. The file specified in the UCB record must exist in the directory /dfc, and the file name derived from the UCB record has the format 'xyz', where 'x' is the 4-alphanumeric characters packcode value (that is, u580) stored in the packcode field of the UCB, 'y' is the 1-digit value stored in the version field of the specified DFC's UCB, and 'z' is the 1-digit value stored in the issue field of the UCB. An example of a typical pumpcode file name is u58090; the pumpcode version implied by this filename is 9, the pumpcode issue is 0, and the packcode number is u580.

2. FORMAT

[1] UPD:FLASH;DFC a;

[2] UPD:FLASH;DFC a:DATA,FN= "b",[CHECKSUM];

3. EXPLANATION OF MESSAGE

CHECKSUM = When this option is used, the integrity of the pumpcode contained in the specified file will be verified; no pumpcode downloading will occur.

a = Member number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

b = Full pathname that specifies the pumpcode file to be downloaded into SCSI DFC or to be checked for the integrity of its data.

4. SYSTEM RESPONSE
PF = Printout follows. Followed by a UPD:FLASH-DFC output message.

5. REFERENCES

Output Message(s):

   UPD:FLASH-DFC

Input Appendix(es):

   APP:RANGES

MCC Display Page(s):

   DISK FILE SYSTEM ACCESS
**UPD:FLASH**

- **Software Release:** 5E14 and later
- **Command Group:** N/A
- **Application:** 5,3B
- **Type:** Input

### 1. PURPOSE

Requests an update of flash random access memory (RAM) on a specified peripheral controller (PC). Flash is a device designed to be programmed in a system with a standard 5V or 12V supply required for write or erase operations.

### 2. FORMAT

`UPD:FLASH:a=b;`

### 3. EXPLANATION OF MESSAGE

- **a** = Member name. Valid value(s):
  - HSDC
  - MTTYC
  - SCSDC
  - SDLIC
  - TTYC

- **b** = Member number (0-255).

### 4. SYSTEM RESPONSE

- **?E** = Invalid verb (system expecting UPD), missing or invalid keyword or data.
- **?I** = Invalid data, missing data, or extra keyword in the first, second, or third parameter or data blocks.
- **NG** = No good. Cannot enable messages, access equipment configuration database (ECD), or PC is in a wrong state to process the input message. PC must be in the out-of-service (OOS) state, and its peripheral interface controller (IOP) must be in the active (ACT) state.
- **PF** = Printout follows. Followed by a UPD-FLASH output message.

### 5. REFERENCES

Output Message(s):

`UPD:FLASH`
1. PURPOSE

Requests that function information from a process file’s symbol table be displayed for one to twenty five address or function entries.

The output contains the name of the file in which the function resides, the name of the function, its transfer vector address and the virtual address and size of the function. If a function does not contain a transfer vector, the transfer vector field in the output is zero. If a process file has been updated by a function replacement, new addresses for the updated functions will be printed.

Format 1 converts symbolic function names to physical addresses.

Format 2 converts physical addresses to symbolic function names.

Format 3 generates a symbolic function trace based on the stack trace addresses logged from a system integrity event.

Please note that the stack trace addresses are retrieved from the daylog file and as a result a small delay may precede the output.

2. FORMAT

[1] UPD:FTRC:{FN="a"|SM="b"},FCN="c" ["-c"]...,TMP=d;

[2] UPD:FTRC:{FN="a"|SM="b"},ADDR=h'e[-h'e]...,TMP=d;

[3] UPD:FTRC:{SM="b"|ENV="f"},EVENT=g,TMP=d;

3. EXPLANATION OF MESSAGE

a = Full path name of the object file, enclosed in double quotes. An SM filename may not be used as a valid value for this variable. This variable can not be specified if either the 'SM' or 'ENV' parameter is specified.

b = Number of the switching module (SM) if applicable. This variable can not be specified if either the 'FN' or 'ENV' parameter is specified.

c = Name of functions within the object file. A maximum of 25 function names can be specified but must be enclosed in double quotes.

d = If 'd' = 'y', indicates that the object file to be used for the conversion has a temporary SU applied to it. This option is supported only for the SM and OKP object files. If 'y' is not specified, 'd' = 'n' is implied.

e = Physical address within a function's text space in the object file. Can specify a maximum of 25 hexadecimal addresses.

f = Environment that the system integrity event occurred in, enclosed in double quotes. The environment should be exactly the same as the ENV field in the system integrity output report. Either
upper or lower case letters can be used. Not specified if the \textit{SM} parameter is specified. The \textit{ENV} parameter should not be used for \textit{OSDSM} type system integrity events because the \textit{OSDSM} type system integrity event requires the use of the \textit{SM} parameter.

\[ g \] = System integrity event number.

\section*{4. SYSTEM RESPONSE}

\[ PF \] = Printout follows. Followed by the UPD:FTRC output message.

\section*{5. REFERENCES}

\begin{itemize}
  \item Input Message(s):
    \begin{itemize}
      \item UPD:APPLY-FUNCR
    \end{itemize}
  \item Output Message(s):
    \begin{itemize}
      \item UPD:FTRC
    \end{itemize}
\end{itemize}
UPD:G-APPLPROC

Software Release: 5E14 and later
Command Group: SFTMGT
Application: 5,3B
Type: Input

1. PURPOSE

Requests execution of the application process, APPLPROC, (/prc/supr/applproc) during a retrofit or update. The application process will invoke specific input messages and retrofit tools defined for APPLPROC through the argument specified.

2. FORMAT

UPD:GEN:APPLPROC[,ARG="a"];

3. EXPLANATION OF MESSAGE

a = An argument string that is to be passed to the application process.

4. SYSTEM RESPONSE

NG = No good. Process not initiated.
PF = Printout follows. Followed by UPD:GEN-APPL output message.

5. REFERENCES

Input Message(s):

OP:G-READLOG
UPD:G-BACKOUT
UPD:G-COMMIT
UPD:G-CONTINUE
UPD:G-ENTER
UPD:G-PROCEED
UPD:G-RESTORE

Output Message(s):

OP:GEN-READLOG
UPD:GEN-APPL
UPD:GEN-BACKOUT
UPD:GEN-COMMIT
UPD:GEN-CONTINUE
UPD:GEN-ENTER
UPD:GEN-PROCEED
UPD:GEN-RESTORE

Other Manual(s):

Where 'x' is the release-specific version of the document.
235-105-24x  Software Release Retrofit
235-105-34x  Software Release Update
UPD:G-BACKOUT

Software Release: 5E14 and later
Command Group: SFTMGT
Application: 5,3B
Type: Input

1. PURPOSE

Requests that the administrative module (AM) be prepared for booting from the old software release if it is necessary to back out of the new software release. This message performs an AM off-line boot by default unless no AM off-line boot is requested.

2. FORMAT

UPD:GEN:BACKOUT[,NOFLBOOT][:UCL];

3. EXPLANATION OF MESSAGE

NOFLBOOT = Do not execute an AM off-line boot.

UCL = Execute unconditionally; context checks are ignored.

4. SYSTEM RESPONSE

NG = No good. Process not initiated.

PF = Printout follows. Followed by UPD:GEN-BACKOUT output message.

5. REFERENCES

Input Message(s):

OP:G-READLOG
STOP:GEN
STP:GEN
UPD:G-COMMIT
UPD:G-CONTINUE
UPD:G-ENTER
UPD:G-PROCEED
UPD:G-RESTORE

Output Message(s):

OP:GEN-READLOG
STOP:GEN
STP:GEN
UPD:GEN-BACKOUT
UPD:GEN-COMMIT
UPD:GEN-CONTINUE
UPD:GEN-ENTER
UPD:GEN-PROCEED
UPD:GEN-RESTORE
Other Manual(s):

Where ‘x’ is the release-specific version of the specified manual.

235-105-24x  Software Release Retrofit
235-105-34x  Software Release Update
235-105-44x  Large Terminal Growth

MCC Display Page(s):

  116 (MISCELLANEOUS)
  124 (RETROFIT)
UPD:G-BEGIN

Software Release: 5E14 and later
Command Group: SFTMGT
Application: 5
Type: Input

1. PURPOSE

Requests the start of the retrofit cycle. Marks the retrofit in progress indicator on the Master Control Center (MCC) MISCELLANEOUS page (116) and marks the MISC indicator in the status summary area.

2. FORMAT

UPD:GEN-BEGIN, {RETRO|UPDATE|LTG}[:UCL];

3. EXPLANATION OF MESSAGE

LTG = Select large terminal growth type of software release transition.
RETRO = Select retrofit type of software release transition.
UCL = Execute unconditionally; checks for correct sequence of input messages are ignored.
UPDATE = Select software release update type of software release transition.

4. SYSTEM RESPONSE

NG = No good. Process not initiated.
PF = Printout follows. Message received and the UPD:GEN-BEGIN output message will follow.

5. REFERENCES

Input Message(s):

UPD:G-END

Output Message(s):

UPD:GEN-BEGIN
UPD:GEN-END

Other Manual(s):

Where 'x' is the release-specific version of the document.

235-105-24x Software Release Retrofit
235-105-34x Software Release Update

MCC Display Page(s):
**UPD:G-COMMIT**

- **Software Release**: 5E14 and later
- **Command Group**: SFTMGT
- **Application**: 5,3B
- **Type**: Input

1. **PURPOSE**

Requests commitment to the new switch software release by duplexing the disks and completes the propagation of the new software release into the system after the soak period.

2. **FORMAT**

   \[ \text{UPD:GEN, COMMIT[:UCL];} \]

3. **EXPLANATION OF MESSAGE**

   \( \text{UCL} \quad = \text{Execute the message unconditionally; context checks are ignored.} \)

4. **SYSTEM RESPONSE**

   - **NG** = No good. Process not initiated.
   - **PF** = Printout follows. Followed by UPD:GEN-COMMIT output message.

5. **REFERENCES**

   **Input Message(s):**
   - OP:G-READLOG
   - STOP:GEN
   - UPD:G-BACKOUT
   - UPD:G-CONTINUE
   - UPD:G-ENTER
   - UPD:G-PROCEED
   - UPD:G-RESTORE

   **Output Message(s):**
   - OP:GEN-READLOG
   - STOP:GEN
   - UPD:GEN-BACKOUT
   - UPD:GEN-CONTINUE
   - UPD:GEN-COMMIT
   - UPD:GEN-ENTER
   - UPD:GEN-PROCEED
   - UPD:GEN-RESTORE

   **Other Manual(s):**

   Where ‘x’ is the release-specific version of the document.
235-105-24x  Software Release Retrofit
235-105-34x  Software Release Update
235-105-44x  Large Terminal Growth
**UPD:G-CONTINUE**

**Software Release:** 5E14 and later  
**Command Group:** SFTMGT  
**Application:** 5,3B  
**Type:** Input

1. **PURPOSE**

Requests that the continuation of a central processor or administrative module update process that requested a manual action using a UPD:G-[unit] output message.

This message acknowledges that the action requested has been completed. It also continues the execution of a system update process that has reported (using a UPD:G-[unit] output message) that it has stopped. The error code from the "stopped" message should be examined and any necessary corrective action taken before entering this input message.

2. **FORMAT**

   UPD:GEN:CONTINUE;

3. **EXPLANATION OF MESSAGE**

   No variables.

4. **SYSTEM RESPONSE**

   **NG** = No good. Process not initiated.  
   **PF** = Printout follows. Followed by UPD:G-CONTINUE output message.

5. **REFERENCES**

   **Input Message(s):**
   
   UPD:G-BACKOUT  
   UPD:G-COMMIT  
   UPD:G-ENTER  
   UPD:G-PROCEED  
   UPD:G-RESTORE

   **Output Message(s):**
   
   UPD:GEN-BACKOUT  
   UPD:GEN-COMMIT  
   UPD:GEN-CONTINUE  
   UPD:GEN-ENTER  
   UPD:GEN-PROCEED  
   UPD:GEN-RESTORE
UPD:G-END
Software Release: 5E14 and later
Command Group: SFTMGT
Application: 5
Type: Input

1. PURPOSE
Requests the completion of the retrofit cycle. Clears the retrofit indicator on the Master Control Center (MCC) MISCELLANEOUS display page and the MISC lit on the status summary page.

2. FORMAT
UPD:GEN:END [:UCL];

3. EXPLANATION OF MESSAGE
UCL = Execute unconditionally; ignore checks made for correct sequence of retrofit input messages.

4. SYSTEM RESPONSE
NG = No good. Process not initiated.
PF = Printout follows. Message received and printout will follow.

5. REFERENCES
Input Message(s):
UPD:G-BEGIN

Output Message(s):
UPD:GEN-BEGIN
UPD:GEN-END

Other Manual(s):
Where 'x' is the release-specific version of the document.
235-105-24x Software Release Retrofit

MCC Display Page(s):
116 (MISCELLANEOUS)
UPD:G-ENTER

Software Release: 5E14 and later
Command Group: SFTMGT
Application: 5,3B
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Requests that the new software release data be entered into the administrative module. This message is the first step of the system update procedure used to introduce a new software release into the system. Up to three different sequences of load disk from tape (LDFT) formatted tapes can be used to update a disk pair. Different disk layouts on each sequence of tapes will be accepted only for the offline disk method and only if the partition affected by the different disk layout was not updated in a previous sequence.

WARNING: During partial updates, the volume table of contents (VTOC) structure for all partitions that are not updated must be identical to the disk VTOC on all tape sequences. If they are not identical, then the starting location of some of the partitions will not match their actual starting location on the disk.

2. FORMAT

UPD:GEN:ENTER[:UCL],{BKPRT|OFLDISK[=a][,NOBKUPD]},SRC="b",{DEST="c"|DEST="c"[-"c"]...}[,SEQOPT=d|,SEQOPT=d[-d...];

3. EXPLANATION OF MESSAGE

BKPRT = Backup partition method specification. This method requires that the disk layout in the new software release must be the same (such as, the VTOC partition in the new software release must be identical to the VTOC in the old software release) and all the disk partitions to be updated must have a corresponding backup partition (such as, like root/broot). The set of unused backup partitions will be updated (such as, if root is being used, broot will be updated).

NOBKUPD = Do not update backup partitions during off-line disk update procedures.

OFLDISK = Off-line disk method specification. This method requires that each disk pair to be updated must be duplex (such as, both disks active). One of the disks will be removed from service and the new software release data will be copied to this disk. The disk will also be marked off-line.

UCL = Execute unconditionally. If this option is not specified, the system update log file must be empty or removed. (The log file is in "/etc/log/suprlog". Refer to OP:G-READLOG).

a = Unit number of the disk file controller (DFC). Used to determine which moving head disk (MHD) unit(s) will be taken off-line (for the off-line disk method). If omitted, DFC 1 will be selected.

b = Special device file name that specifies the input magnetic tape. The name of the tape unit is of the form /dev/mtnn or mt?, where nn is a two-digit hexadecimal number and ? is the MTC controller number.

c = Special device file name that specifies the volume table of contents (VTOC) for the disk to be updated. Up to ten destinations may be specified. The file name (full pathname) cannot be greater than 40 characters long. Refer to the ECD/SG manual.
d   = Tape sequence options that are to be used for each destination that was specified. Valid value(s):
    DBL    = update a disk using a double sequence of tapes
    SGL    = update a disk using a single sequence of tapes
    TPL    = update a disk using a triple sequence of tapes

If a sequence option is not specified at all (the SEQOPT keyword is not used on the input message line), the default values are used (double sequence for the bootdisk, single sequence for non-bootdisks). If default tape sequence options are not desired for all destinations, then all the tape sequence options must be specified (even the tape sequences using default values). If tape sequence options are specified, the number of specified tape sequence options must equal the number of specified destinations. The maximum number of tape sequence options allowed on the enter input message line is ten.

4. SYSTEM RESPONSE

NG   = No good. Process not initiated.
PF   = Printout follows. Followed by UPD:G-ENTER output message.

5. REFERENCES

Input Message(s):

OP:G-READLOG
STOP:GEN
STP:GEN
UPD:G-BACKOUT
UPD:G-COMMIT
UPD:G-CONTINUE
UPD:G-PROCEED
UPD:G-RESTORE

Output Message(s):

OP:GEN-READLOG
STOP:GEN
STP:GEN
UPD:GEN-BACKOUT
UPD:GEN-COMMIT
UPD:GEN-CONTINUE
UPD:GEN-ENTER
UPD:GEN-PROCEED
UPD:GEN-RESTORE

Other Manual(s):

Where 'x' is the release-specific version of the specified manual.

235-105-24x   Software Release Retrofit
235-105-34x   Software Release Update
235-105-44x   Large Terminal Growth
UPD:G-PROCEED
Software Release: 5E14 and later
Command Group: SFTMGT
Application: 5,3B
Type: Input

1. PURPOSE
Requests that the administrative module (AM) be prepared for booting from the new software release. This message performs an AM off-line boot by default unless no AM off-line boot is requested.

Note: This message must be executed after the UPD:G-ENTER input message.

2. FORMAT
UPD:GEN:PROCEED[,NOFLBOOT][:UCL];

3. EXPLANATION OF MESSAGE

NOFLBOOT = Do not execute an AM off-line boot.

UCL = Execute unconditionally; ignore context checks. If this option is specified, it will be ignored unless the previous step (entering UPD:G-ENTER) was not completed successfully.

4. SYSTEM RESPONSE

NG = No good. Process not initiated.

PF = Printout follows. Followed by UPD:GEN-PROCEED output message.

5. REFERENCES

Input Message(s):

OP:G-READLOG
STOP:GEN
STP:GEN
UPD:G-BACKOUT
UPD:G-COMMIT
UPD:G-CONTINUE
UPD:G-ENTER
UPD:G-RESTORE

Output Message(s):

OP:GEN-READLOG
STOP:GEN
STP:GEN
UPD:GEN-BACKOUT
UPD:GEN-COMMIT
UPD:GEN-CONTINUE
Other Manual(s):

Where 'x' is the release-specific version of the specified manual.

- 235-105-24x  Software Release Retrofit
- 235-105-34x  Software Release Update
- 235-105-44x  Large Terminal Growth

MCC Display Page(s):

- 116 (MISCELLANEOUS)
- 124 (RETROFIT)
UPD:G-RESTORE

Software Release: 5E14 and later
Command Group: SFTMGT
Application: 5,3B
Type: Input

1. PURPOSE

Requests that the old software release be restored by removing the new software release from the administrative module (AM).

This message should be started after the UPD:G-ENTER and UPD:G-PROCEED messages have completed successfully. If either message did not complete successfully, then the unconditional option should be used. Using this message without the UCL option will produce an error even after a successful PROCEED. Only unconditional restores are valid. If the new software release was introduced using the backup partition method (UPD:G-ENTER), the disk to be updated and its mate must be active, even if only one of them was updated. For example, if moving head disk 0 (MHD0) was updated, then moving head disk 1 (MHD1) should be restored before this message is executed.

2. FORMAT

UPD:GEN:RESTORE[:UCL];

3. EXPLANATION OF MESSAGE

UCL = Execute unconditionally; ignore context checks. If this option is specified, it will be ignored if the previous step (entering UPD:G-PROCEED) was completed successfully.

4. SYSTEM RESPONSE

NG = No good. Process not initiated.

PF = Printout follows. Followed by UPD:GEN-RESTORE output message.

5. REFERENCES

Input Message(s):

OP:G-READLOG
STOP:GEN
STP:GEN
UPD:G-BACKOUT
UPD:G-COMMIT
UPD:G-CONTINUE
UPD:G-ENTER
UPD:G-PROCEED

Output Message(s):

OP:GEN-READLOG
STOP:GEN
STP:GEN
UPD:GEN-BACKOUT
UPD:GEN-COMMIT
UPD:GEN-CONTINUE
UPD:GEN-ENTER
UPD:GEN-PROCEED
UPD:GEN-RESTORE
UPD:G-SMBKOUT
Software Release: 5E14 and later
Command Group: SFTMGT
Application: 5
Type: Input

1. PURPOSE
Requests that switching modules (SMs) be switched from module controller/time-slot interchange (MCTSI) side 1 to side 0 and perform an SM retrofit initialization during a retrofit or software release update.

2. FORMAT
UPD:GEN:SMBKOUT, SM=a[&b][,,LSM][,,HSM][,,RSM][,,ORM][,,TRM]:UCL;

3. EXPLANATION OF MESSAGE
HSM = Select modules of the type host switching module.
LSM = Select modules of the type local switching module.
ORM = Select modules of the type optical remote switching module.
RSM = Select modules of the type remote switching module.
TRM = Select modules of the type two-mile optical remote switching module.
UCL = Execute unconditionally; checks for existence of the APPLHOOK log file created by the UPD:G-BEGIN input message, the retrofit indicator on the Master Control Center (MCC) page 116, and that MCTSI side 0 is offline pumped are ignored.

a = SM number or lower limit of a range of SM numbers.
b = Upper limit of the range of SM numbers to be inhibited.

4. SYSTEM RESPONSE
NG = No good. Process not initiated.
OK = Good.

5. REFERENCES
Input Message(s):
UPD:G-BEGIN
UPD:G-END
UPD:G-SMSWITCH
UPD:G-SWITCHBCK
UPD:G-SWITCHFWD

Other Manual(s):
Where 'x' is the release-specific version of the document.

235-105-24x  Software Release Retrofit
235-105-34x  Software Release Update

MCC Display Page(s):

116 (MISCELLANEOUS)
UPD:G-SMSWITCH

Software Release: 5E14 and later
Command Group: SFTMGT
Application: 5
Type: Input

1. PURPOSE
Requests that switching modules (SMs) be switched from module controller/time-slot interchange (MCTSI) side 0 to side 1 and perform an SM retrofit initialization during a retrofit or update.

2. FORMAT
UPD:GEN:SMSWITCH, SM=a[&b][,LSM][,HSM][,RSM][,ORM][,TRM][:UCL];

3. EXPLANATION OF MESSAGE
HSM = Select modules of the type host switching module.
LSM = Select modules of the type local switching module.
ORM = Select modules of the type optical remote switching module.
RSM = Select modules of the type remote switching module.
TRM = Select modules of the type two mile optically remote switching module.
UCL = Execute unconditionally. The following checks are ignored: checks for existence of the APPLHOOK log file created by the UPD:G-BEGIN input message, checks of the retrofit indicator on the Master Control Center (MCC) MISCELLANEOUS page, checks that SMs are on MCTSI side 0, and checks that MCTSI side 1 is offline pumped.

a = SM number or lower limit of a range of SM numbers.
b = Upper limit of the range of SM numbers.

4. SYSTEM RESPONSE
NG = No good. Process not initiated.
OK = Good. Request accepted.

5. REFERENCES
Input Message(s):
UPD:G-BEGIN
UPD:G-END
UPD:G-SMBKOUT
UPD:G-SWITCHBCK
UPD:G-SWITCHFWD
Other Manual(s):

Where ‘x’ is the release-specific version of the document.

235-105-24x  Software Release Retrofit
235-105-34x  Software Release Update

MCC Display Page(s):

116 (MISCELLANEOUS)
UPD:G-SWITCHBCK
Software Release: 5E14 and later
Command Group: SFTMGT
Application: 5
Type: Input

1. PURPOSE
Requests a retrofit switch and initialization on switching modules (SMs) that were switched by the
UPD:G-SWITCHFWD input message during a retrofit or update.

2. FORMAT
UPD:GEN:SWITCHBCK[:UCL];

3. EXPLANATION OF MESSAGE
UCL = Execute unconditionally; checks for existence of the APPLHOOK log file created by the
UPD:G-BEGIN input message and the retrofit indicator on the Master Control Center (MCC)
MISCELLANEOUS page are ignored.

4. SYSTEM RESPONSE
NG = No good. Process not initiated.
OK = Good. Request accepted.

5. REFERENCES
Input Message(s):
UPD:G-BEGIN
UPD:G-END
UPD:G-SMBKOUT
UPD:G-SMSWITCH
UPD:G-SWITCHFWD

Other Manual(s):
Where 'x' is the release-specific version of the document.
235-105-24x Software Release Retrofit
235-105-34x Software Release Update

MCC Display Page(s):
116 (MISCELLANEOUS)
UPD:G-SWITCHFWD

Software Release: 5E14 and later
Command Group: SFTMGT
Application: 5
Type: Input

1. PURPOSE

Requests a retrofit switch and initialization of switching modules (SMs) that are offline pumped and forced during a retrofit or update.

2. FORMAT

UPD:GEN:SWITCHFWD[:UCL];

3. EXPLANATION OF MESSAGE

UCL = Execute unconditionally. The following checks are ignored: checks for existence of the APPLHOOK log file created by the UPD:G-BEGIN input message, checks of the retrofit indicator on the Master Control Center (MCC) MISCELLANEOUS page, and checks that the retrofit PROCEED stage has completed successfully.

4. SYSTEM RESPONSE

NG = No good. Process not initiated.
OK = Good. Request completed.

5. REFERENCES

Input Message(s):

UPD:G-BEGIN
UPD:G-END
UPD:G-SMBKOUT
UPD:G-SMSWITCH
UPD:G-SWITCHBCK

Other Manual(s):

Where 'x' is the release-specific version of the document.

235-105-24x Software Release Retrofit
235-105-34x Software Release Update

MCC Display Page(s):

116 (MISCELLANEOUS)
UPD:G-TSM

Software Release: 5E14 and later
Command Group: SFTMGT
Application: 5
Type: Input

1. PURPOSE

Requests the collection and logging of current out-of-service (OOS) trunks and their statuses during a software release transition (retrofit, update, or large terminal growth).

2. FORMAT

UPD:GEN:TSM, {OLD|NEW|RMV}[ :UCL];

3. EXPLANATION OF MESSAGE

NEW = Gather trunk OOS data on destination/new software release.
OLD = Gather trunk OOS data on source/old software release.
RMV = Remove trunks from service that were previously OOS, but were in service after the transition.
UCL = Execute unconditionally. This will overwrite existing port_OOS files.

4. SYSTEM RESPONSE

NG = No good. Trunk status mapping (TSM) process not initiated.
PF = Printout follows. Message was received and the UPD:GEN-TSM output message will follow.

5. REFERENCES

Output Message(s):

UPD:GEN-TSM

Other Manual(s):

Where ‘x’ is the release-specific version of the document.

235-105-24x Software Release Retrofit
235-105-34x Software Release Update
235-105-44x Large Terminal Growth Procedures

MCC Display Page(s):

124 (RETROFIT)
UPD:GENP

Software Release: 5E14 and later
Command Group: SFTMGT
Application: 53B
Type: Input

1. PURPOSE

To manually control the generation of update files (ufiles) and product files (pfiles) generated by the UPgenpcc process. If UPD:GENP:STOP is used, all files generated up to this point will remain. Pfile and ufile generation will continue with the UPD:GENP:RESUME input message. If UPD:GENP:QUIT is used, all files that have been generated so far will be deleted unconditionally.

2. FORMAT

UPD:GENP:{STOP|RESUME|QUIT};

3. EXPLANATION OF MESSAGE

No variables.

4. SYSTEM RESPONSE

PF = Printout follows. Followed by a UPD output message.
RL = Retry later.

5. REFERENCES

Output Message(s):

UPD:GENPCC
UPD:SYSERR
UPD:USRERR

Other Manual(s):
235-105-210 Routine Operations and Maintenance

MCC Display Page(s):
1950 (PROGRAM UPDATE MAINTENANCE)
1960 (INSTALL BWM)
UPD:HSCHK-A

Software Release: 5E14 - 5E15
Command Group: FHADM
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

To verify the integrity of the disk and core images for hash sum protected products.

Format 1 is used to perform hash sum checking on ALL of the hashsum protected products, a specific switching module (SM), or a specific target [such as, SM, integrated services line unit (ISLU), and so forth].

Format 2 is used to perform hash sum checking on a specific text file and it's associated hash sum file.

Format 3 is used to perform hash sum checking on a specific communications module processor (CMP).

This check is scheduled by cron to run daily on all text [not office-dependent data (ODD) products in the switch that have associated hash sum files. There are two major checks that are done. First the disk image is verified by calculating the hash sums over the entire image and comparing them with the sums stored in the associated hash sum files. The second check is to compare (not calculate) the disk hash sums with the core hash sums. These two checks, coupled with the routine incore hash sum checking, provide a comprehensive audit to guarantee integrity of the hash sum protected products.

This input message is provided so that hash sum checking can be invoked manually. There are several different options that are provided to narrow the focus of the check to a specific SM or CMP, a specific target (such as, ISLU), a particular configuration, or a particular file.

During routine (scheduled from cron) hash sum verification, the only messages that are seen are the beginning message, and the completion message. However, if an error is found, additional messages will provide information on the error(s) that were found. The hash sum check is more verbose if it is being run in response to the input message. In this case it will report when it is beginning the disk hash sum check for each specified target.

Regardless of how the audit is requested (manually or routinely), disk hash sum errors are reported with a ROP message, a major alarm, and the switching module processor (SMP)/ CMP FILE indicator on MCC Display Page 116 will read HASHERR.

When this input message is run with only the ALL option and it does not find any errors, it will reset MCC Display Page 116 to normal.

WARNING: In the event that hash sum mismatches are found, corrective action should be taken immediately to prevent potential service impacting problems. Detailed procedures for correcting hash sum error problems are given in the Corrective Maintenance Manual. However, these should only be performed by trained and qualified personnel.

2. FORMAT

[1] UPD:HSCHK:(SM=b|TARGET=c|ALL) [,OUTFILE=f|REPT] [,DISK|CORE];

[2] UPD:HSCHK:FN=d,DF=e,TARGET=c [,OUTFILE=f];

[3] UPD:HSCHK:CMP=a, {PRIM|MATE} [,OUTFILE=f] [,DISK|CORE];
3. EXPLANATION OF MESSAGE

ALL = Run the audit on all of the above targets,

CORE = If the CORE option is specified, then only incore hash sum checking is performed. The default is to do both disk and core hash sum checking.

DISK = If the DISK option is specified, then only disk hash sum checking is performed. The default is to do both disk and core hash sum checking.

REPT = The REPT option allows a user to request a summary report of any incore hash sum mismatches that occurred from a previous run of the audit. If the REPT option is specified, then no hash sum checking is performed. The only action that is performed is to look at the SM(s)/CMP(s) that mismatched and report the targets where errors were found. This is especially useful to quickly determine which targets encountered problems in a given SM. For example, if SM 3 is showing a D/C HASH status (on MCC Display Page 1800 or MCC Display pages 141-144), the hash sum mismatch could of occurred in the SM text file (IM.out) or in any of the peripherals that are supported in that configuration (such as, LDSU, RAF, and so forth). The REPT option will report all of the targets that had hash sum mismatches.

a = CMP number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

b = SM number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

c = Valid value(s):

- CMP
- DDMA
- DNUSCC
- DNUSTMX
- DSC3
- DSP13K
- DSP8K
- DSPEVRC
- GDSF
- HDSU
- HSAS
- IDCUCCP
- IDCUDLP
- IDCULSI
- IP3S
- IP4F
- IP4I
- IP4IF
- ISLU
- ISLU2
- ISTF
- LDSU
- LDSF
- MSGH
- ODMA
The FN option is provided to allow hash sum checking on files that are not supported in the list of targets above. If the FN option is specified, then the DF must also be provided to indicate the hash sum file. The intent of this option is to allow for DISK hash sum verification on files that reside in temporary locations. If the FN option is used, no incore hash sum checking is done. The full path name to the file is required.

Hash sum file associated with the argument to the FN parameter. The DF option is required when the FN option is used. The full path name to the file is required.

Full path name to the output file. When this option is specified, then the output of the audit is sent to the specified file rather than the ROP and the originating terminal. This allows for more verbose output from the audit since the amount of output to the ROP is restricted. The OUTFILE option provides additional information to assist technical support in the resolution of hashsum mismatch problems. All output files should only be placed in file systems that are designed to hold temporary files. Creating files in other file systems may interfere with routine activities in the switch. These files should be removed when they are no longer needed.

### 4. SYSTEM RESPONSE

Printout follows. The message was accepted and the audit has been scheduled. Followed by one
or more UPD:HSCHK output messages.

5. REFERENCES

Output Message(s):

UPD:HSCHK
UPD:SYSERR
UPD:USRERR
UPD:INFO

Input Appendix(es):

APP:RANGES

Other Manual(s):
235-105-220 Corrective Maintenance

MCC Display Page(s):
116 MISCELLANEOUS
141-144 SM 1 THROUGH SM 192 STATUS
1800 SM X INHIBIT AND RECOVERY CONTROL
UPD:HSCHK-B

Software Release: 5E16(1) only
Command Group: FHADM
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

To verify the integrity of the disk and core images for hash sum protected products.

Format 1 is used to perform hash sum checking on ALL of the hashsum protected products, a specific switching module (SM), or a specific target [such as, SM, integrated services line unit (ISLU), and so forth].

Format 2 is used to perform hash sum checking on a specific text file and its associated hash sum file.

Format 3 is used to perform hash sum checking on a specific communications module processor (CMP).

This check is scheduled by cron to run daily on all text [not office-dependent data (ODD) products in the switch that have associated hash sum files. There are two major checks that are done. First the disk image is verified by calculating the hash sums over the entire image and comparing them with the sums stored in the associated hash sum files. The second check is to compare (not calculate) the disk hash sums with the core hash sums. These two checks, coupled with the routine incore hash sum checking, provide a comprehensive audit to guarantee integrity of the hash sum protected products.

This input message is provided so that hash sum checking can be invoked manually. There are several different options that are provided to narrow the focus of the check to a specific SM or CMP, a specific target (such as, ISLU), a particular configuration, or a particular file.

During routine (scheduled from cron) hash sum verification, the only messages that are seen are the beginning message, and the completion message. However, if an error is found, additional messages will provide information on the error(s) that were found. The hash sum check is more verbose if it is being run in response to the input message. In this case it will report when it is beginning the disk hash sum check for each specified target.

Regardless of how the audit is requested (manually or routinely), disk hash sum errors are reported with a ROP message, a major alarm, and the switching module processor (SMP)/ CMP FILE indicator on MCC Display Page 116 will read HASHERR.

When this input message is run with only the ALL option and it does not find any errors, it will reset MCC Display Page 116 to normal.

WARNING: In the event that hash sum mismatches are found, corrective action should be taken immediately to prevent potential service impacting problems. Detailed procedures for correcting hash sum error problems are given in the Corrective Maintenance Manual. However, these should only be performed by trained and qualified personnel.

2. FORMAT

[1] UPD:HSCHK:(SM=b|TARGET=c|ALL),OUTFILE=f,REPT],[DISK|CORE];

[2] UPD:HSCHK:FN=d,DF=e,TARGET=c,OUTFILE=f;
3. EXPLANATION OF MESSAGE

ALL = Run the audit on all of the above targets,

CORE = If the CORE option is specified, then only incore hash sum checking is performed. The default is to do both disk and core hash sum checking.

DISK = If the DISK option is specified, then only disk hash sum checking is performed. The default is to do both disk and core hash sum checking.

REPT = The REPT option allows a user to request a summary report of any incore hash sum mismatches that occurred from a previous run of the audit. If the REPT option is specified, then no hash sum checking is performed. The only action that is performed is to look at the SM(s)/CMP(s) that mismatched and report the targets where errors were found. This is especially useful to quickly determine which targets encountered problems in a given SM. For example, if SM 3 is showing a D/C HASH status (on MCC Display Page 1800 or MCC Display pages 141-144), the hash sum mismatch could of occurred in the SM text file (IM.out) or in any of the peripherals that are supported in that configuration (such as, LDSU, RAF, and so forth). The REPT option will report all of the targets that had hash sum mismatches.

a = CMP number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

b = SM number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

c = Valid value(s):

   CMP
   DDMA
   DNUSCC
   DNUSTMX
   DSC3
   DSP13K
   DSP8K
   DSPEVRC
   GDSF
   HDSU
   HSAS
   IDCUCCP
   IDCUDLP
   IDCULSI
   IP22
   IP3S
   IP4F
   IP4I
   IP4IF
   ISLU
   ISLU2
   ISTF
   LDSU
The FN option is provided to allow hash sum checking on files that are not supported in the list of targets above. If the FN option is specified, then the DF must also be provided to indicate the hash sum file. The intent of this option is to allow for DISK hash sum verification on files that reside in temporary locations. If the FN option is used, no incore hash sum checking is done. The full path name to the file is required.
= Hash sum file associated with the argument to the FN parameter. The DF option is required when the FN option is used. The full path name to the file is required.

\[f\] = Full path name to the output file. When this option is specified, then the output of the audit is sent to the specified file rather than the ROP and the originating terminal. This allows for more verbose output from the audit since the amount of output to the ROP is restricted. The OUTFILE option provides additional information to assist technical support in the resolution of hashsum mismatch problems. All output files should only be placed in file systems that are designed to hold temporary files. Creating files in other file systems may interfere with routine activities in the switch. These files should be removed when they are no longer needed.

### 4. SYSTEM RESPONSE

\[PF\] = Printout follows. The message was accepted and the audit has been scheduled. Followed by one or more UPD:HSCHK output messages.

### 5. REFERENCES

Output Message(s):

- UPD:HSCHK
- UPD:SYSERR
- UPD:USRERR
- UPD:INFO

Input Appendix(es):

- APP:RANGES

Other Manual(s):

235-105-220  Corrective Maintenance

MCC Display Page(s):

- 116  MISCELLANEOUS
- 141-144  SM 1 THROUGH SM 192 STATUS
- 1800  SM X INHIBIT AND RECOVERY CONTROL
UPD:HSCHK-C
Software Release: 5E16(2) and later
Command Group: FHADM
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE
To verify the integrity of the disk and core images for hash sum protected products.

Format 1 is used to perform hash sum checking on ALL of the hashsum protected products, a specific switching module (SM), or a specific target [such as, SM, integrated services line unit (ISLU), and so forth].

Format 2 is used to perform hash sum checking on a specific text file and it's associated hash sum file.

Format 3 is used to perform hash sum checking on a specific communications module processor (CMP).

This check is scheduled by cron to run daily on all text [not office-dependent data (ODD) products in the switch that have associated hash sum files. There are two major checks that are done. First the disk image is verified by calculating the hash sums over the entire image and comparing them with the sums stored in the associated hash sum files. The second check is to compare (not calculate) the disk hash sums with the core hash sums. These two checks, coupled with the routine incore hash sum checking, provide a comprehensive audit to guarantee integrity of the hash sum protected products.

This input message is provided so that hash sum checking can be invoked manually. There are several different options that are provided to narrow the focus of the check to a specific SM or CMP, a specific target (such as, ISLU), a particular configuration, or a particular file.

During routine (scheduled from cron) hash sum verification, the only messages that are seen are the beginning message, and the completion message. However, if an error is found, additional messages will provide information on the error(s) that were found. The hash sum check is more verbose if it is being run in response to the input message. In this case it will report when it is beginning the disk hash sum check for each specified target.

Regardless of how the audit is requested (manually or routinely), disk hash sum errors are reported with a ROP message, a major alarm, and the switching module processor (SMP)/ CMP FILE indicator on MCC Display Page 116 will read HASHERR.

When this input message is run with only the ALL option and it does not find any errors, it will reset MCC Display Page 116 to normal.

**WARNING:** In the event that hash sum mismatches are found, corrective action should be taken immediately to prevent potential service impacting problems. Detailed procedures for correcting hash sum error problems are given in the Corrective Maintenance Manual. However, these should only be performed by trained and qualified personnel.

2. FORMAT

[1] UPD:HSCHK:(SM=b|TARGET=c|ALL)[,OUTFILE=f|REPT][,DISK|CORE];

[2] UPD:HSCHK:FN=d,DF=e,TARGET=c[,OUTFILE=f];
3. EXPLANATION OF MESSAGE

ALL = Run the audit on all of the above targets,

CORE = If the CORE option is specified, then only incore hash sum checking is performed. The default is to do both disk and core hash sum checking.

DISK = If the DISK option is specified, then only disk hash sum checking is performed. The default is to do both disk and core hash sum checking.

REPT = The REPT option allows a user to request a summary report of any incore hash sum mismatches that occurred from a previous run of the audit. If the REPT option is specified, then no hash sum checking is performed. The only action that is performed is to look at the SM(s)/CMP(s) that mismatched and report the targets where errors were found. This is especially useful to quickly determine which targets encountered problems in a given SM. For example, if SM 3 is showing a D/C HASH status (on MCC Display Page 1800 or MCC Display pages 141-144), the hash sum mismatch could have occurred in the SM text file (IM.out) or in any of the peripherals that are supported in that configuration (such as, LDSU, RAF, and so forth). The REPT option will report all of the targets that had hash sum mismatches.

a = CMP number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

b = SM number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

c = Target. Valid value(s):

   CMP
   DDMA
   DNUSCC
   DNUSTMX
   DSC3
   DSP13K
   DSP8K
   DSPEVRC
   GDSF
   HDSU
   HSAS
   IDCUCCP
   IDCUDLP
   IDCULSI
   IP22
   IP3S
   IP4F
   IP4I
   IP4IF
   ISLU
   ISLU2
   ISTF
   LDSU
= The FN option is provided to allow hash sum checking on files that are not supported in the list of targets above. If the FN option is specified, then the DF must also be provided to indicate the hash sum file. The intent of this option is to allow for DISK hash sum verification on files that reside in
temporary locations. If the FN option is used, no incore hash sum checking is done. The full path name to the file is required.

\[ e \]
= Hash sum file associated with the argument to the FN parameter. The DF option is required when the FN option is used. The full path name to the file is required.

\[ f \]
= Full path name to the output file. When this option is specified, then the output of the audit is sent to the specified file rather than the ROP and the originating terminal. This allows for more verbose output from the audit since the amount of output to the ROP is restricted. The OUTFILE option provides additional information to assist technical support in the resolution of hashsum mismatch problems.

**WARNING:** All output files should only be placed in file systems that are designed to hold temporary files. Creating files in other file systems may interfere with routine activities in the switch. These files should be removed when they are no longer needed.

### 4. SYSTEM RESPONSE

\[ PF \]
= Printout follows. The message was accepted and the audit has been scheduled. Followed by one or more UPD:HSCHK output messages.

### 5. REFERENCES

Output Message(s):

- UPD:HSCHK
- UPD:SYSERR
- UPD:USRERR
- UPD:INFO

Input Appendix(es):

- APP:RANGES

Other Manual(s):

- 235-105-220 *Corrective Maintenance*

MCC Display Page(s):

- 116 MISCELLANEOUS
- 141-144 SM 1 THROUGH SM 192 STATUS
- 1800 SM X INHIBIT AND RECOVERY CONTROL
**UPD:IMCAT**

**Software Release:** 5E14 and later  
**Command Group:** SFTMGT  
**Application:** 5  
**Type:** Input

1. **PURPOSE**

Invalidates memory segments for the input message catalog (imcatlg), causing the catalog to be read from disk. This message is used during a software update of the input message catalog.

After invalidating the memory segments, this message increments the input message catalog version number shared between processes accessing imcatlg (the shell and HMMcc). When the version number changes, usually during a software update, these processes clear the old catalog from their segment space and read the updated catalog from disk.

2. **FORMAT**

    UPD:IMCAT;

3. **EXPLANATION OF MESSAGE**

No variables.

4. **SYSTEM RESPONSE**

**NG**  
= No good. The input request is invalid. May also include:

- FILE INACCESSIBLE = Failed to open the input message catalog (/no5text/hm/imcatlg). Verify /no5text/hm/imcatlg exists and is readable before executing UPD:IMCAT again.

- SEGCODE CANNOT BE DETERMINED = Failed to get a segment name for one of the input message catalog segments. Refer to the TECHNICAL ASSISTANCE portion of the INTRODUCTION section of the Input Messages manual.

- SEGMENT NAME CANNOT BE CLEARED = Failed to invalidate ("unname") one of the input message catalog segments. Restore original input message catalog before executing UPD:IMCAT again. (Refer to the UPD:BKOUT output message if imcatlg update occurred during a software update). If necessary, refer to the TECHNICAL ASSISTANCE portion of the INTRODUCTION section of the Input Messages manual.

**OK**  
= Good. Request was accepted. Segments are marked invalid.

5. **REFERENCES**

Input Message(s):

    UPD:BKOUT
**UPD:INITPW**

**Software Release:** 5E14 and later  
**Command Group:** SFTMGT  
**Application:** 5,3B  
**Type:** Input

1. **PURPOSE**

Requests that the password, the number of login attempts and/or the key, which are used by the Customer Service Computer Access Network System (CSCANS) interface, be initialized. Note that one, two or all three of these arguments may be specified for a given invocation of this input message, with the exception that if a new key is specified, then a new password must also be specified.

This input message should be used initially to setup the password and key used by the CSCANS interface. It should also be used to reinitialize the password and key after the CSCANS interface port has been locked out of service due to too many failed login attempts.

This input message may also be used to initialize the number of failed login attempts allowed and to initialize the key used to decode the password.

2. **FORMAT**

```
UPD:INITPW:{PASSWD=a[,KEY=c][,ATTEMPTS=b]|ATTEMPTS=b};
```

3. **EXPLANATION OF MESSAGE**

- **a** = The new password to be used, with a minimum of six characters. It should consist of at least two alphabetic characters and at least one numeric or special character.

- **b** = The number of failed successive login attempts allowed through the CSCANS interface before the port is locked out of service. If not specified, default is 3.

- **c** = The new key to be used, consisting of exactly two characters.

4. **SYSTEM RESPONSE**

```
PF
```

= Printout follows. The request has been accepted. Followed by a UPD:INITPW output message.

5. **REFERENCES**

**Input Message(s):**

- UPD:CSCANS-REPT  
- UPD:CSCANS-STOP

**Output Message(s):**

- UPD:CSCANS  
- UPD:INITPW

**Other Manual(s):**
Routine Operations and Maintenance

MCC Display Page(s):

1950 (PROGRAM UPDATE MAINTENANCE)
1960 (INSTALL BWM)
UPD:INSTL

Software Release: 5E14 and later
Command Group: SFTMGT
Application: 5
Type: Input

1. PURPOSE

Request that a software update (SU) be installed or backed out.

2. FORMAT

[1] UPD:INSTL:a[,SU="c"];
[2] UPD:INSTL,b[,SU="c"][,NXT[,UCL]];

3. EXPLANATION OF MESSAGE

NXT = Next command.

UCL = Unconditional. This should only be used for those MSGS file commands that allow the UCL option. Valid only with NXT.

a = Begin state.

SET = Identify the SU to be installed.
START = Starts the installation of a SU.

b = Continue state.

BKOUT = Return (unistall) the SU, prior to being made OFFICIAL, back to the VERIFY COMPLETED stage. This will remove any newly created disk files.
DEACT = Return the SU back to the PREPARE completed stage from either the ACTIVATE or SOAK stage in reverse installation order. This will unistall the updates without removing any files.
THRU=d = Install the SU through to the specified stage.
VERFY = Starts the VERIFY stage of the SU installation process.

c = SU name.

d = End stage. Valid value(s):
PREP = Prepare stage.
ACTV = Activate stage.
SOAK = Soak stage.
MKOF = Make official stage.

4. SYSTEM RESPONSE

NG = No good.
PF = Print follows.
5. REFERENCES

Input Message(s):

UPD : BOLO

Output Message(s):

UPD : SYSERR
UPD : USRERR

Other Manual(s):

235-105-210  Routine Operations and Maintenance

MCC Display Page(s):

SU INSTALLATION
UPD:OFC

Software Release: 5E14 and later
Command Group: SFTMGT
Application: 5,3B
Type: Input

1. PURPOSE

Requests updates associated with a temporary software update be made permanent. This must be done to one software update at a time, beginning with the oldest temporary software update and continuing with the order in which they were applied.

2. FORMAT

UPD:OFC:UPNM="a",UCL;

3. EXPLANATION OF MESSAGE

UCL = Unconditionally make official.

a = Software update: Specified a BWMyy-nnnn, TMPyy-nnnn (temporary), or CFTyy-nnnn where BWM, TMP, and CFT identify the category of software update; yy is the last two digits of the year, and nnnn is the sequence number identifying the software update (" " is required).

4. SYSTEM RESPONSE

PF = Printout follows. The request has been accepted.

5. REFERENCES

Input Message(s):

UPD:BKOUT
UPD:DISPLAY

Output Message(s):

UPD:SYSERR
UPD:USRERR

Other Manual(s):
235-105-210 Routine Operations and Maintenance

MCC Display Page(s):
1950 (PROGRAM UPDATE MAINTENANCE)
1960 (INSTALL BWM)
UPD:OMDB

Software Release: 5E14 and later
Command Group: SFTMGT
Application: 5,3B
Type: Input

1. PURPOSE

Requests that the message class or the alarm level for either one or a list of message keys in the output message database (OMDB) disk file be updated. Successful updates are logged so that they can be reapplied after a field update.

2. FORMAT

UPD:OMDB:KEY=a:{MSGCLS=b|ALARM=c};

3. EXPLANATION OF MESSAGE

a = OMDB key (or list of keys). Refer to the APP:OMDB-X-REF appendix in the Appendixes section of the Output Messages manual for a list of valid OMDB keys.

b = Numeric value for message class in range 0 to 225.

c = Valid value(s):

ACT = Automatically generated report. It may require some action to be taken.
CRIT = Critical alarm. Immediate action required.
INFO = Automatically generated report.
MAJ = Major alarm. Immediate action required.
MAN = Manually requested report.
MIN = Minor alarm. Action required.
VAR = Variable alarm supplied by client process. If the client process does not specify it, the alarm is defaulted to "INFO."

4. SYSTEM RESPONSE

IP = In progress. Followed by UPD:OMDB output message.

NG = No good. May also include:

- INVALID ALARM = Alarm is not one of the seven valid alarm levels.
- INVALID KEY = A message key is not within the valid range.
- INVALID MSGCLS = Message class is not within the valid range.
- SYNTAX ERROR = Message is not in the correct format.
- TOO MANY KEYS = Maximum of 32 keys are allowed per message.

5. REFERENCES

Input Message(s):

ACTV:OMDB
APPLY:OMDB
Output Message(s):

UPD: OMDB

Other Manual(s):
235-105-250A  Craft Terminal Lockout Job Aid
UPD:OMIT

Software Release: 5E14 and later
Command Group: N/A
Application: 5,3B
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Requests that a pending computer field update (that is, one that has been interrupted) be removed from further consideration. This input message effectively redefines the BWM containing the omitted update, and should be used only on updates which cannot be reset or continued.

WARNING: This message should be used only as a last resort. It should never be used without expert technical assistance.

2. FORMAT

UPD:OMIT [:DATA ,VLEV=a];

3. EXPLANATION OF MESSAGE

a = Requests additional output from a field update process. Verbose flags may be set for UPD and fuomit. The flags must be entered in the order the processes are listed. To turn on the verbose output for fuomit, UPD’s flag must be used or set to zero.

4. SYSTEM RESPONSE

PF = Printout follows. Followed by UPD output messages.

5. REFERENCES

Input Message(s)

UPD:BKOUT
UPD:PERM
UPD:RESET

Output Message(s):

UPD:APPLY
UPD:BKOUT
UPD:BLDBOOT
UPD:CLR
UPD:DISPLAY
UPD:FTRC-3B
UPD:GEN-APPL
UPD:GEN-BACKOUT
UPD:GEN-COMMIT
UPD:GEN-CONTINUE

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UPD:GEN-ENTER
UPD:GEN-PROCEED
UPD:GEN-RESTORE
UPD:ISG
UPD:OMDB
UPD:OMIT
UPD:PERM
UPD:PURGE
UPD:REPT
UPD:RESET
UPD:UPNM
UPD:VFY
UPD:PATCH

Software Release: 5E14 and later
Command Group: SFTMGT
Application: 5,3B
Type: Input

1. PURPOSE

Requests that program update compact switch processor's patch space.

The patch space compaction is normally used when the target's, SM, SM-2000 or CMP, patch space become insufficient and failed the program update process. The patch space compaction operation will try to increase the size of target's patch space and make successful program update process.

Note: If there is any need to back out patch space compaction after it has been made official, back-out-last-official (BOLO) process can be used for backout. For BOLO procedure check BOLO reference.

The target's patch space may become so fragmented or insufficient that even this operation can not generate large enough patch space for a successful program update process.

2. FORMAT

UPD:PATCH:TARGET=a,ACTION=b;

3. EXPLANATION OF MESSAGE

a = Type of processor to be compact patch space. Valid value(s):
  SM = Switching module.
  CMP = Communication module processor.

b = Type of patch space compaction action. Valid value(s):
  APPLY = Execute patch space compaction and apply on requested target.
  OFC = Make official for the applied target.
  BKOUT = Back out previously requested applied target.

4. SYSTEM RESPONSE

NG = No good. The message was not accepted because the wrong TARGET or ACTION has been entered.

PF = Printout follows. The request has been accepted. Followed by a UPD:PATCH output message.

INPROG = In progress. The message was accepted and the action is in progress.

CMPL, (action) = Complete (action)'s process. May also include:
  APPLY
  OFC
  BKOUT
5. REFERENCES

Output Message(s):

UPD: SYSERR
UPD: USRERR

Other Manual(s):
235-040-100  OA&M Planning Guide
235-100-125  System Description
235-105-100  System Maintenance Requirement and Tools
235-105-210  Routine Operation and Maintenance
235-106-202  5E12 Software Release Update
235-120-020  CDX User's Guide
235-120-120  VCDX User's Guide

MCC Display Page(s):

1950 (PROGRAM UPDATE MAINTENANCE)
UPD:PERM

Software Release: 5E14 and later
Command Group: N/A
Application: 5,3B
Type: Input

1. PURPOSE

Requests that updates associated with a temporary broadcast warning message (BWM) be made permanent. Only the oldest temporary BWM may be made permanent.

2. FORMAT

UPD:PERM:DATA {UPNM="a"|CONT},VLEV=b;

3. EXPLANATION OF MESSAGE

  a = BWM. Specified as BWMyy-nn, DMTyy-nnnn, or CFTyy-nnnn, where BWM, DMT, and CFT identify the category of the BWM, yy is the last two digits of the year, and nnnn is the sequence number identifying the BWM.

  CONT = Attempt to complete the UPD:PERM input message that failed.

  b = Requests additional output from a field update process. Verbose flags may be set for UPD, ucm, ogen, and oild. The flags must be entered in the order in which the processes are listed. To turn on the verbose output for a process, all process flags before that one must be used or set to zero.

4. SYSTEM RESPONSE

PF = Printout follows. Followed by the appropriate UPD output messages.

5. REFERENCES

Input Message(s):

  UPD:BKOUT
  UPD:BLDBOOT
  UPD:DISPLAY
  UPD:OMIT
  UPD:RESET-3B

Output Message(s):

  UPD:APPLY
  UPD:BKOUT
  UPD:BLDBOOT
  UPD:CLR
  UPD:DISPLAY
  UPD:FTRC-3B
  UPD:GEN-APPL
  UPD:GEN-BACKOUT
  UPD:GEN-COMMIT
UPD:PMPPERF-A

Software Release: 5E14 - 5E15
Command Group: SFTMGT
Application: 5
Type: Input

1. PURPOSE

Requests that inconsistent pumpable switching module (SM) peripherals be removed and restored.

The target peripheral(s) can be specified in two ways. A single target can be specified explicitly with the TARGET option (Format 1). All targets affected by a given software update may be removed and restored with the UPNM option (Format 2). The SM resident image for the target(s) must be consistent, otherwise UPD:PMPPERF will abort. UPD:PMPPERF can be thought of as a way to recover from type 7 inconsistencies. All the affected hardware should be in service prior to entering this message.

For protocol handlers (PH), each packet switch unit shelf must be equipped with at least one standby spare PH of each affected hardware type. If affected hardware is out-of-service, UPD:PMPPERF may abort unless the UCL option is given (with the TARGET option only). Refer to the UPD:PMPPERF output manual page for more information.

2. FORMAT

[1] UPD:PMPPERF:TARGET=a[,UCL];
[2] UPD:PMPPERF:UPNM="b",[OFC];

3. EXPLANATION OF MESSAGE

OFC = Only those targets that require remove/restore after the UPD:OFC input message (ISLU, IDCUCCP, IDCUDLP, IDCULSI, DNUSCC, and DNUSTMX) will be chosen from the MSGS file. This option is appropriate only after the UPD:OFC input message has completed since only those targets will need to be removed/restored. This option has nothing to do with which image (temporary versus official) is pumped to the peripherals.

UCL = Remove and restore the target peripherals unconditionally.

Default is conditional removal. The restoration is always unconditional.

a = Pumpable SM peripheral type. Valid value(s):
CM3 = Communication module 3
DNUSCC = Digital networking unit - synchronous optical network (SONET) (DNU-S) common control.
DNUSTMX = Transmission multiplexer.
DSC3 = Digital service circuit - model 3.
DSP13K = 8K digital signal processor for CDMA protocol handler for voice.
DSP8K = 8K digital signal processor for CDMA protocol handler for voice.
DSPEVRC = EVRC digital signal processor for CDMA protocol handler for voice.
GDSF = Global digital services function - model 3.
HDSU = Hardware digital service unit.
HSAS = Service announcement system diagnostic image.
IDCUCCP = Integrated digital carrier unit (IDCU) common control processor.
IDCUDLP = IDCU data link processor.
IDCULSI = IDCU loop side interface.
IP22S = PH22 OIP image.
IP22W = PH22 wireless OIP image.
IP3S = Protocol handler 3 CCS OIP image.
IP4F = Frame relay protocol handler version 4 I/O processor.
IP4I = PH4I operational input/output processor.
IP4IF = ISDN Frame Relay protocol handler version 4 I/O processor.
ISLU = Integrated services line unit.
ISLU2 = Integrated services line unit 2.
ISTF = Integrated services test function.
LDSU = Local digital service unit.
LDSF = Local digital services function - model 3.
MSGH = Message handler.
ODMA = Operational direct memory access.
O1OP = Operational input/output processor.
PH2A = Protocol handler 2 (PH2) with ACCESS application processor image.
PH2G = PH2 with GATEWAY application processor image.
PH22S = PH22 AP image.
PH22W = PH22 wireless AP image.
PH3C = Protocol handler 3 (PH3) with COMMON application processor image.
PH3S = PH3 CCS AP image.
PH4A = Protocol handler 4 (PH4) access image.
PH4G = PH4 gateway image.
PH4I = PH4 with integrated services digital network (ISDN) application processor image.
PHA1A = Protocol handler for ATM (asynchronous transfer mode).
PI = Packet interface.
PI2 = Packet interface unit 2.
PHV1C = Protocol handler for voice for CDMA (code division multiple access).
PHV3C = Protocol handler for voice version 3 for CDMA application.
PHV4C = Protocol handler for voice version 4 for CDMA application.
RAF = Recorded announcement function.
SAS = Service announcement system operational image.
SM = Switching module.
SMPMH = Switching module processor message handler (MH) operational image.
SMPMHLB = Switching module processor MH little boot image.
V3DACP = ACELP digital signal processor, for TDMA protocol handler for voice.
V4D13K = 13K DSP, for CDMA protocol handler for voice version 4.
V4D8K = 8K DSP, for CDMA protocol handler for voice version 4.
V4DACP = ACELP DSP, for TDMA protocol handler for voice version 4.
V4DEV1 = EVRC1 DSP, for CDMA protocol handler for voice version 4.
V4DEV2 = EVRC2 DSP, for CDMA protocol handler for voice version 4.
V4DEV3 = EVRC3 DSP, for CDMA protocol handler for voice version 4.
V4DVSP = VSELP DSP, for TDMA protocol handler for voice version 4.
V4DISL = ISLP DSP, for IS41 TDMA protocol handler for data circuit.

b = Use the MSGS file in the specified software update package to determine the list of targets. The software update package must exist either under the /etc/bwm directory, or be a software update number listed as official on the 1950 page.

4. SYSTEM RESPONSE
PF = Printout follows. The request has been accepted. This is followed by one or more UPD:PMPPERF output messages.

5. REFERENCES

Input Message(s):

UPD:OFC
UPD:PMPSTOP
UPD:VFYCON

Output Message(s):

UPD:OFC
UPD:PMPPERF
UPD:PMPSTOP
UPD:SYSERR
UPD:USRERR
UPD:VFYCON

Other Manual(s):
235-105-210  Routine Operations and Maintenance

MCC Display Page(s):
1950  PROGRAM UPDATE MAINTENANCE
1960  INSTALL BWM
UPD:PMPPERF-B

Software Release: 5E16(1) only
Command Group: SFTMGT
Application: 5
Type: Input

1. PURPOSE

Requests that inconsistent pumpable switching module (SM) peripherals be removed and restored.

The target peripheral(s) can be specified in two ways. A single target can be specified explicitly with the TARGET option (Format 1). All targets affected by a given software update may be removed and restored with the UPNM option (Format 2).

The SM resident image for the target(s) must be consistent, otherwise UPD:PMPPERF will abort. UPD:PMPPERF can be thought of as a way to recover from type 7 inconsistencies.

All the affected hardware should be in service prior to entering this message. For protocol handlers (PH), each packet switch unit shelf must be equipped with at least one standby spare PH of each affected hardware type. If affected hardware is out-of-service, UPD:PMPPERF may abort unless the UCL option is given (with the TARGET option only). Refer to the UPD:PMPPERF output manual page for more information.

2. FORMAT

[1] UPD:PMPPERF:TARGET=a[,UCL];

[2] UPD:PMPPERF:UPNM="b"[,OFC];

3. EXPLANATION OF MESSAGE

OFC = Only those targets that require remove/restore after the UPD:OFC input message (ISLU, IDCUCCP, IDCUDLP, IDCULSI, DNUSCC, and DNUSTMX) will be chosen from the MSGS file. This option is appropriate only after the UPD:OFC input message has completed since only those targets will need to be removed/restored. This option has nothing to do with which image (temporary versus official) is pumped to the peripherals.

UCL = Remove and restore the target peripherals unconditionally. Default is conditional removal. The restoration is always unconditional.

a = Pumpable SM peripheral type. Valid value(s):

CM3 = Communication module 3
DNUSCC = Digital networking unit - synchronous optical network (SONET) (DNU-S) common control.
DNUSTMX = Transmission multiplexer.
DSC3 = Digital service circuit - model 3.
DSP13K = 8K digital signal processor (DSP) for code division multiple access (CDMA) protocol handler for voice.
DSP8K = 8K digital signal processor for CDMA protocol handler for voice.
DSPEVRC = EVRC digital signal processor for CDMA protocol handler for voice.
GDSF = Global digital services function - model 3.
HDSU = Hardware digital service unit.
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<tr>
<td>MHEIB</td>
<td>Switching module processor message handler EIB (MHEIB) operational image.</td>
</tr>
<tr>
<td>MHLB</td>
<td>Switching module processor MH little boot image.</td>
</tr>
<tr>
<td>MHPPC</td>
<td>Switching module processor message handler power PC (MHPPC) operational image.</td>
</tr>
<tr>
<td>MHPPCLB</td>
<td>Switching module processor MHPPC little boot image.</td>
</tr>
<tr>
<td>MSGH</td>
<td>Message handler.</td>
</tr>
<tr>
<td>ODMA</td>
<td>Operational direct memory access.</td>
</tr>
<tr>
<td>OIOP</td>
<td>Operational input/output processor.</td>
</tr>
<tr>
<td>OIU24</td>
<td>Optical interface unit - 24 channels.</td>
</tr>
<tr>
<td>PH2A</td>
<td>Protocol handler 2 (PH2) ACCESS application processor (AP) image.</td>
</tr>
<tr>
<td>PH2G</td>
<td>PH2 GATEWAY AP image.</td>
</tr>
<tr>
<td>PH22I</td>
<td>PH22 wireless ISDN AP image.</td>
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<tr>
<td>PH22S</td>
<td>PH22 signaling AP image.</td>
</tr>
<tr>
<td>PH3C</td>
<td>PH3 COMMON AP image.</td>
</tr>
<tr>
<td>PH3S</td>
<td>PH3 CCS AP image.</td>
</tr>
<tr>
<td>PH4A</td>
<td>PH4 access AP image.</td>
</tr>
<tr>
<td>PH4G</td>
<td>PH4 gateway AP image.</td>
</tr>
<tr>
<td>PH4I</td>
<td>PH4 ISDN AP image.</td>
</tr>
<tr>
<td>PHA1A</td>
<td>Protocol handler for asynchronous transfer mode (ATM) AP image.</td>
</tr>
<tr>
<td>PHA2A</td>
<td>Protocol handler for ATM model 2 AP image.</td>
</tr>
<tr>
<td>PHE2E</td>
<td>Protocol handler for ethernet.</td>
</tr>
<tr>
<td>PI</td>
<td>Packet interface.</td>
</tr>
<tr>
<td>P12</td>
<td>Packet interface unit 2.</td>
</tr>
<tr>
<td>PHV1C</td>
<td>Protocol handler for voice version 1 (PHV1) for CDMA AP image.</td>
</tr>
<tr>
<td>PHV2C</td>
<td>PHV2 for CDMA application AP image.</td>
</tr>
<tr>
<td>PHV3C</td>
<td>PHV3 for CDMA application AP image.</td>
</tr>
<tr>
<td>PHV4C</td>
<td>PHV4 for CDMA application AP image.</td>
</tr>
<tr>
<td>PHV5C</td>
<td>PHV5 for CDMA application AP image.</td>
</tr>
<tr>
<td>RAF</td>
<td>Recorded announcement function.</td>
</tr>
<tr>
<td>SAS</td>
<td>Service announcement system operational image.</td>
</tr>
<tr>
<td>SM</td>
<td>Switching module.</td>
</tr>
<tr>
<td>V3DACP</td>
<td>ACELP DSP for TDMA PHV3.</td>
</tr>
<tr>
<td>V4D13K</td>
<td>13K DSP, for CDMA for PHV4.</td>
</tr>
<tr>
<td>V4D8K</td>
<td>8K DSP, for CDMA for PHV4.</td>
</tr>
<tr>
<td>V4DACP</td>
<td>ACELP DSP, for TDMA for PHV4.</td>
</tr>
</tbody>
</table>
V4DEVR1 = EVRC1 DSP, for CDMA for PHV4.
V4DEVR2 = EVRC2 DSP, for CDMA for PHV4.
V4DEVR3 = EVRC3 DSP, for CDMA for PHV4.
V4DVSP = VSELP DSP, for TDMA for PHV4.
V4DISL = ISLP DSP, for IS41 TDMA PHV4 data circuit.
V5D13K = 13K DSP, for CDMA for PHV5.
V5D8K = 8K DSP, for CDMA for PHV5.
V5DACP = ACELP DSP, for TDMA for PHV5.
V5DEVR1 = EVRC1 DSP, for CDMA for PHV5.
V5DEVR2 = EVRC2 DSP, for CDMA for PHV5.
V5DEVR3 = EVRC3 DSP, for CDMA for PHV5.
V5DVSP = VSELP DSP, for TDMA PHV5.
V5DISL = ISLP DSP, for IS41 TDMA PHV5 data circuit.

b = Use the MSGS file in the specified software update package to determine the list of targets. The software update package must exist either under the /etc/bwm directory, or be a software update number listed as official on the 1950 page.

4. SYSTEM RESPONSE

PF = Printout follows. The request has been accepted. This is followed by one or more UPD:PMPPERF output messages.

5. REFERENCES

Input Message(s):

UPD:OFC
UPD:PMFSTOP
UPD:VFYCON

Output Message(s):

UPD:OFC
UPD:PMPPERF
UPD:PMFSTOP
UPD:SYSERR
UPD:USRERR
UPD:VFYCON

Other Manual(s):
235-105-210 Routine Operations and Maintenance

MCC Display Page(s):
1950 PROGRAM UPDATE MAINTENANCE
1960 INSTALL BWM
1. PURPOSE

Requests that inconsistent pumpable switching module (SM) peripherals be removed and restored.

The target peripheral(s) can be specified in two ways. A single target can be specified explicitly with the `TARGET` option (Format 1). All targets affected by a given software update may be removed and restored with the `UPNM` option (Format 2).

The SM resident image for the target(s) must be consistent, otherwise UPD:PMPPERF will abort. UPD:PMPPERF can be thought of as a way to recover from type 7 inconsistencies.

All the affected hardware should be in service prior to entering this message. For protocol handlers (PH), each packet switch unit shelf must be equipped with at least one standby spare PH of each affected hardware type. If affected hardware is out-of-service, UPD:PMPPERF may abort unless the `UCL` option is given (with the `TARGET` option only). Refer to the UPD:PMPPERF output manual page for more information.

2. FORMAT

```
[1] UPD:PMPPERF:TARGET=a[,UCL];
________________________________________________________
[2] UPD:PMPPERF:UPNM="b"[,OFC];
________________________________________________________
```

3. EXPLANATION OF MESSAGE

**OFC**

= Only those targets that require remove/restore after the UPD:OFC input message (ISLU, IDCUCCP, IDCUDLP, IDCULSI, DNUSSC, and DNUSTMX) will be chosen from the MSGS file. This option is appropriate only after the UPD:OFC input message has completed since only those targets will need to be removed/restored. This option has nothing to do with which image (temporary versus official) is pumped to the peripherals.

**UCL**

= Remove and restore the target peripherals unconditionally.

Default is conditional removal. The restoration is always unconditional.

**a**

= Pumpable SM peripheral type. Valid value(s):

- **CM3** = Communication module 3
- **DNUSSC** = Digital networking unit - synchronous optical network (SONET) (DNU-S) common control.
- **DNUSTMX** = Transmission multiplexer.
- **DSC3** = Digital service circuit - model 3.
- **DSP13K** = 8K digital signal processor (DSP) for code division multiple access (CDMA) protocol handler for voice.
- **DSP8K** = 8K digital signal processor for CDMA protocol handler for voice.
- **DSPEVRC** = EVRC digital signal processor for CDMA protocol handler for voice.
- **GDSF** = Global digital services function - model 3.
- **HDSU** = Hardware digital service unit.
<table>
<thead>
<tr>
<th>Abbreviation</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>HSAS</td>
<td>Service announcement system diagnostic image.</td>
</tr>
<tr>
<td>IDCUCCP</td>
<td>Integrated digital carrier unit (IDCU) common control processor.</td>
</tr>
<tr>
<td>IDCUDLP</td>
<td>IDCU data link processor.</td>
</tr>
<tr>
<td>IDCULSI</td>
<td>IDCU loop side interface.</td>
</tr>
<tr>
<td>IP22</td>
<td>PH22 common input/output processor (IOP) image.</td>
</tr>
<tr>
<td>IP3S</td>
<td>PH3 CCS IOP image.</td>
</tr>
<tr>
<td>IP4F</td>
<td>Frame relay PH4 IOP image.</td>
</tr>
<tr>
<td>IP4I</td>
<td>ISDN PH4 IOP image.</td>
</tr>
<tr>
<td>IP4IF</td>
<td>ISDN frame relay PH4 IOP image.</td>
</tr>
<tr>
<td>ISLU</td>
<td>Integrated services line unit.</td>
</tr>
<tr>
<td>ISLU2</td>
<td>Integrated services line unit 2.</td>
</tr>
<tr>
<td>ISTF</td>
<td>Integrated services test function.</td>
</tr>
<tr>
<td>LDSU</td>
<td>Local digital service unit.</td>
</tr>
<tr>
<td>LDSF</td>
<td>Local digital services function - model 3.</td>
</tr>
<tr>
<td>MH32</td>
<td>Switching module processor message handler 32 (MH32) operational image.</td>
</tr>
<tr>
<td>MHEIB</td>
<td>Switching module processor message handler EIB (MHEIB) operational image.</td>
</tr>
<tr>
<td>MHLB</td>
<td>Switching module processor MH little boot image.</td>
</tr>
<tr>
<td>MHPPC</td>
<td>Switching module processor message handler PowerPC® (MHPPC) operational image.</td>
</tr>
<tr>
<td>MHPPCLB</td>
<td>Switching module processor MHPPC little boot image.</td>
</tr>
<tr>
<td>MSGH</td>
<td>Message handler.</td>
</tr>
<tr>
<td>ODMA</td>
<td>Operational direct memory access.</td>
</tr>
<tr>
<td>OIOP</td>
<td>Operational input/output processor.</td>
</tr>
<tr>
<td>OIU24</td>
<td>Optical interface unit (OIU) - 24 channels.</td>
</tr>
<tr>
<td>OIU1P</td>
<td>Optical interface unit - internet protocol (IP).</td>
</tr>
<tr>
<td>PH2A</td>
<td>Protocol handler 2 (PH2) ACCESS application processor (AP) image.</td>
</tr>
<tr>
<td>PH2G</td>
<td>PH2 GATEWAY AP image.</td>
</tr>
<tr>
<td>PH22I</td>
<td>PH22 wireless ISDN AP image.</td>
</tr>
<tr>
<td>PH22S</td>
<td>PH22 signaling AP image.</td>
</tr>
<tr>
<td>PH31S</td>
<td>PH31 signaling AP image.</td>
</tr>
<tr>
<td>PH3C</td>
<td>PH3 COMMON AP image.</td>
</tr>
<tr>
<td>PH3S</td>
<td>PH3 CCS AP image.</td>
</tr>
<tr>
<td>PH4A</td>
<td>PH4 access AP image.</td>
</tr>
<tr>
<td>PH4G</td>
<td>PH4 gateway AP image.</td>
</tr>
<tr>
<td>PH4I</td>
<td>PH4 ISDN AP image.</td>
</tr>
<tr>
<td>PHA1A</td>
<td>Protocol handler for asynchronous transfer mode (ATM) AP image.</td>
</tr>
<tr>
<td>PHA2A</td>
<td>Protocol handler for ATM model 2 AP image.</td>
</tr>
<tr>
<td>PHE2E</td>
<td>Protocol handler for ethernet.</td>
</tr>
<tr>
<td>PI</td>
<td>Packet interface.</td>
</tr>
<tr>
<td>PI2</td>
<td>Packet interface unit 2.</td>
</tr>
<tr>
<td>PHV1C</td>
<td>Protocol handler for voice version 1 (PHV1) for CDMA AP image.</td>
</tr>
<tr>
<td>PHV2C</td>
<td>PHV2 for CDMA application AP image.</td>
</tr>
<tr>
<td>PHV3C</td>
<td>PHV3 for CDMA application AP image.</td>
</tr>
<tr>
<td>PHV4C</td>
<td>PHV4 for CDMA application AP image.</td>
</tr>
<tr>
<td>PHV5C</td>
<td>PHV5 for CDMA application AP image.</td>
</tr>
<tr>
<td>RAF</td>
<td>Recorded announcement function.</td>
</tr>
<tr>
<td>SAS</td>
<td>Service announcement system operational image.</td>
</tr>
<tr>
<td>SM</td>
<td>Switching module.</td>
</tr>
<tr>
<td>V3DACP</td>
<td>ACELP DSP for TDMA PHV3.</td>
</tr>
<tr>
<td>V4D13K</td>
<td>13K DSP, for CDMA for PHV4.</td>
</tr>
</tbody>
</table>
V4D8K = 8K DSP, for CDMA for PHV4.
V4DACP = ACELP DSP, for TDMA for PHV4.
V4DEVr1 = EVRC1 DSP, for CDMA for PHV4.
V4DEVr2 = EVRC2 DSP, for CDMA for PHV4.
V4DEVr3 = EVRC3 DSP, for CDMA for PHV4.
V4DVSP = VSELP DSP, for TDMA for PHV4.
V4DISL = ISLP DSP, for IS41 TDMA PHV4 data circuit.
V5D13K = 13K DSP, for CDMA for PHV5.
V5D8K = 8K DSP, for CDMA for PHV5.
V5DACP = ACELP DSP, for TDMA for PHV5.
V5DEVR1 = EVRC1 DSP, for CDMA for PHV5.
V5DEVR2 = EVRC2 DSP, for CDMA for PHV5.
V5DEVR3 = EVRC3 DSP, for CDMA for PHV5.
V5DVSP = VSELP DSP, for TDMA PHV5.
V5DISL = ISLP DSP, for IS41 TDMA PHV5 data circuit.

b = Use the MSGS file in the specified software update package to determine the list of targets. The software update package must exist either under the /etc/bwm directory, or be a software update number listed as official on the 1950 page.

4. SYSTEM RESPONSE

PF = Printout follows. The request has been accepted. This is followed by one or more UPD:PMPPERF output messages.

5. REFERENCES

Input Message(s):

  UPD:OFC
  UPD:PMPSTOP
  UPD:VFYCON

Output Message(s):

  UPD:OFC
  UPD:PMPPERF
  UPD:PMPSTOP
  UPD:SYSERR
  UPD:USRERR
  UPD:VFYCON

Other Manual(s):
235-105-210 Routine Operations and Maintenance

MCC Display Page(s):
1950 PROGRAM UPDATE MAINTENANCE
1960 INSTALL BWM
UPD:PMPSTOP
Software Release: 5E14 and later
Command Group: SFTMGT
Application: 5
Type: Input

1. PURPOSE
Requests that execution of an in-progress UPD:PMPPERF input message be stopped.

2. FORMAT
UPD:PMPSTOP;

3. EXPLANATION OF MESSAGE
No variables.

4. SYSTEM RESPONSE
PF = Printout follows. The request has been accepted. Followed by a UPD:PMPSTOP output message.

5. REFERENCES
Input Message(s):

    UPD:PMPPERF
    UPD:VFYCON

Output Message(s):

    UPD:PMPPERF
    UPD:PMPSTOP
    UPD:SYSERR
    UPD:USRERR
    UPD:VFYCON

Other Manual(s):
235-105-210 Routine Operations and Maintenance

MCC Display Page(s):
1950 (PROGRAM UPDATE MAINTENANCE)
1960 (INSTALL BWM)
1. PURPOSE

Request that the specified file type of a designated software update (SU) be printed to the ROP.

2. FORMAT

UPD:PRINT:a [,SU=b];

3. EXPLANATION OF MESSAGE

a = File type. Valid value(s):
    MSGS
    SCANS

b = SU name (10 character maximum). If no SU name is given the specified file type of the SU which is currently loaded will be printed.

4. SYSTEM RESPONSE

NG = No good.

PF = Printout follows. Followed by the REPT:AML-REACH output message.

5. REFERENCES

Input Message(s):

   UPD:SET
   UPD:PRINT

Output Message(s):

   REPT:AML-REACH
   UPD:SYSERR
   UPD:USRERR

Other Manual(s):

235-105-210   Routine Operations and Maintenance

MCC Display Page(s):

   SU INSTALLATION
UPD:PUMPBWM-A

Software Release: 5E14 - 5E16(1)
Command Group: SFTMG
Application: 5
Type: Input

1. PURPOSE

Requests that the temporary software update pump map be used during an initialization of the switching modules (SMs) or communication module processors (CMPs).

Format 1 is to be used for CMP updates only. Format 2 is to be used for SM or peripheral updates. Format 3 is to be used for SM-2000 or peripheral updates that affect SM-2000.

2. FORMAT


3. EXPLANATION OF MESSAGE

a = The configuration type to receive the update. Valid value(s):
0 = Basic.
1 = Standard.
2 = Loaded.

4. SYSTEM RESPONSE

PF = Printout follows.

5. REFERENCES

Input Message(s):

UPD:PMPPERF
UPD:PUMPOFC

Output Message(s):

UPD:PMPPERF
UPD:PUMPBWM
UPD:PUMPOFC

Other Manual(s):
235-105-210  Routine Operations and Maintenance
UPD:PUMPBWM-B

Software Release: 5E16(2) and later
Command Group: SFTMGT
Application: 5
Type: Input

1. PURPOSE

Requests that the temporary software update pump map be used during an initialization of the switching modules (SMs) or communication module processors (CMPS).

Format 1 is to be used for CMP updates only.

Format 2 is to be used for SM or peripheral updates.

Format 3 is to be used for SM-2000 or peripheral updates that affect SM-2000.

Format 4 is to be used for SM-2000 PowerPC® upgrade or peripheral updates that affect SM-2000 PowerPC® upgrade.

2. FORMAT


3. EXPLANATION OF MESSAGE

a = The configuration type to receive the update. Valid value(s):
  0 = Basic.
  1 = Standard.
  2 = Loaded.

4. SYSTEM RESPONSE

PF = Printout follows.

5. REFERENCES

Input Message(s):
UPD:PMPPERF
UPD:PUMPOFC

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Output Message(s):

- UPD: PMPPERF
- UPD: PUMPBWM
- UPD: PUMPOFC

Other Manual(s):

235-105-210  *Routine Operations and Maintenance*
**UPD:PUMPOFC-A**

**Software Release:** 5E14 - 5E16(1)  
**Command Group:** SFTMGT  
**Application:** 5  
**Type:** Input

1. **PURPOSE**

Requests that the official pump map be used during an initialization of the switching modules (SM or SM-2000) or communication module processors (CMPs).

2. **FORMAT**

```
UPD:PUMPOFC:{CMP|SM|SM2K};
```

3. **EXPLANATION OF MESSAGE**

No variables.

4. **SYSTEM RESPONSE**

```
PF
```

= Printout follows. An output message of UPD:PUMPOFC will follow in response to the request.

5. **REFERENCES**

**Input Message(s):**

```
UPD:PUMPBWM
```

**Output Message(s):**

```
UPD:PUMPOFC  
UPD:SYSERR
```

**Other Manual(s):**

235-105-210  *Routine Operations and Maintenance*
UPD:PUMPOFC-B
Software Release: 5E16(2) and later
Command Group: SFTMGT
Application: 5
Type: Input

1. PURPOSE
Requests that the official pump map be used during an initialization of the switching modules (SM), SM-2000, SM-2000 PowerPC® upgrade, or communication module processors (CMPs).

2. FORMAT
UPD:PUMPOFC:{CMP|SM|SM2K|SM2KFX};

3. EXPLANATION OF MESSAGE
No variables.

4. SYSTEM RESPONSE
PF = Printout follows. Followed by the UPD:PUMPOFC output message.

5. REFERENCES
Input Message(s):
UPD:PUMPBWM

Output Message(s):
UPD:PUMPOFC
UPD:SYSERR

Other Manual(s):
235-105-210 Routine Operations and Maintenance
UPD:RCVRY-A

Software Release: 5E14 - 5E15
Command Group: SFTMGT
Application: 5,3B
Type: Input

1. PURPOSE

Requests a program update roll backward or roll forward operation.

The roll forward operation is normally used when it is reasonably certain that the update operation in question did not cause the inconsistency (such as an installed update causing a processor boot). This may result in updates having to be reapplied. The roll backward operation will attempt to remove the update inconsistency by removing temporary updates until consistency is restored.

2. FORMAT

UPD:RCVRY:{BKWD|FRWD}{,ALL|,TARGET=a};

3. EXPLANATION OF MESSAGE

ALL = Recover all processors.

BKWD = Perform backward synchronization; that is, recover from an update inconsistency by removing the appropriate temporary update(s) from the affected processor(s) and file(s).

FRWD = Perform forward synchronization; that is, recover from an update inconsistency by reinstalling the appropriate temporary update(s) in the affected processor(s) and file(s).

a = Type of processor to be recovered. Valid value(s):
    AM = Administrative module.
    CMP = Communication module processor.
    DDMA = Diagnostic direct memory access.
    DNUSCC = Digital networking unit - synchronous optical network (SONET) (DNU-S) common control.
    DNUSTMX = Transmission multiplexer.
    DSC3 = Digital service circuit - model 3.
    DSP13K = 8K digital signal processor for CDMA protocol handler for voice.
    DSP8K = 8K digital signal processor for CDMA protocol handler for voice.
    DSPEVRC = EVRC digital signal processor for CDMA protocol handler for voice.
    GDSF = Global digital services function - model 3.
    HDSU = Hardware digital service unit.
    HSAS = Service announcement system diagnostic image.
    IDCUCP = Integrated digital carrier unit (IDCU) common control processor.
    IDCUDLP = IDCU data link processor.
    IDCULSI = IDCU loop side interface.
    IP3S = Protocol handler 3 CCS OIP image.
    IP4F = Frame relay protocol handler version 4 I/O processor.
    IP4I = PH4I operational input/output processor.
    IP4IF = ISDN Frame Relay protocol handler version 4 I/O processor.
    ISLU = Integrated services line unit.
    ISLU2 = Integrated services line unit 2.
    ISTF = Integrated services test function.
LDSU = Local digital service unit.
LDSF = Local digital services function - model 3.
MSGH = Message handler.
ODMA = Operational direct memory access.
O1OP = Operational input/output processor.
PH2A = Protocol handler 2 (PH2) with ACCESS application processor image.
PH2G = PH2 with GATEWAY application processor image.
PH3C = Protocol handler 3 (PH3) with COMMON application processor image.
PH3S = PH3 CCS AP image.
PH4A = Protocol handler 4 (PH4) access image.
PH4G = PH4 gateway image.
PH4I = PH4 with integrated services digital network (ISDN) application processor image.
PHA1A = Protocol handler for ATM (asynchronous transfer mode).
PI = Packet interface.
PI2 = Packet interface unit 2.
PHV1C = Protocol handler for voice for CDMA (code division multiple access).
PHV3C = Protocol handler for voice version 3 for CDMA application.
PHV4C = Protocol handler for voice version 4 for CDMA application.
RAF = Recorded announcement function.
SAS = Service announcement system operational image.
SM = Switching module.
SMPMH = Switching module processor message handler (MH) operational image.
SMPMHLB = Switching module processor MH little boot image.
V3DACP = ACELP digital signal processor, for TDMA protocol handler for voice.
V4D13K = 13K DSP, for CDMA protocol handler for voice version 4.
V4D8K = 8K DSP, for CDMA protocol handler for voice version 4.
V4DACP = ACELP DSP, for TDMA protocol handler for voice version 4.
V4DEVR1 = EVRC1 DSP, for CDMA protocol handler for voice version 4.
V4DEVR2 = EVRC2 DSP, for CDMA protocol handler for voice version 4.
V4DEVR3 = EVRC3 DSP, for CDMA protocol handler for voice version 4.
V4DVSP = VSELP DSP, for TDMA protocol handler for voice version 4.
V4DISL = ISLP DSP, for IS41 TDMA protocol handler for data circuit.

4. SYSTEM RESPONSE

PF = Printout follows. The request has been accepted. Followed by the UPD:RCVRY output message.

5. REFERENCES

Input Message(s):

UPD:PMPPERF
UPD:VFYCON

Output Message(s):

UPD:PMPPERF
UPD:RCVRY

Copyright ©2003 Lucent Technologies
UPD: SYSERR
UPD: USRERR
UPD: VFYCON

Other Manual(s):
235-105-210   Routine Operations and Maintenance

MCC Display Page(s):
1950   PROGRAM UPDATE MAINTENANCE
1960   INSTALL BWM
1. PURPOSE

Requests a program update roll backward or roll forward operation.

The roll forward operation is normally used when it is reasonably certain that the update operation in question did not cause the inconsistency (such as an installed update causing a processor boot). This may result in updates having to be reapplied. The roll backward operation will attempt to remove the update inconsistency by removing temporary updates until consistency is restored.

2. FORMAT

UPD:RCVRY:{BKWD|FRWD}{,ALL|,TARGET=a};

3. EXPLANATION OF MESSAGE

**ALL**

= Recover all processors.

**BKWD**

= Perform backward synchronization; that is, recover from an update inconsistency by removing the appropriate temporary update(s) from the affected processor(s) and file(s).

**FRWD**

= Perform forward synchronization; that is, recover from an update inconsistency by reinstalling the appropriate temporary update(s) in the affected processor(s) and files(s).

**a**

= Type of processor to be recovered. Valid value(s):

- **AM** = Administrative module.
- **CMP** = Communication module processor.
- **DDMA** = Diagnostic direct memory access.
- **DNUSCC** = Digital networking unit - synchronous optical network (SONET) (DNU-S) common control.
- **DNUSTMX** = Transmission multiplexer.
- **DSC3** = Digital service circuit - model 3.
- **DSP13K** = 8K digital signal processor (DSP) for code division multiple access (CDMA) protocol handler for voice.
- **DSP8K** = 8K digital signal processor for CDMA protocol handler for voice.
- **DSPEVRC** = EVRC digital signal processor for CDMA protocol handler for voice.
- **GDSF** = Global digital services function - model 3.
- **HDSU** = Hardware digital service unit.
- **HSAS** = Service announcement system diagnostic image.
- **IDCUCCP** = Integrated digital carrier unit (IDCU) common control processor.
- **IDCUDLP** = IDCU data link processor.
- **IDCULSI** = IDCU loop side interface.
- **IP22** = PH22 common input/output processor (IOP) image.
- **IP3S** = PH3 CCS IOP image.
- **IP4F** = Frame relay PH4 IOP image.
- **IP4I** = ISDN PH4 IOP image.
- **IP4IF** = ISDN frame relay PH4 IOP image.
- **ISLU** = Integrated services line unit.
ISLU2 = Integrated services line unit 2.
ISTF = Integrated services test function.
LDSU = Local digital service unit.
LDSF = Local digital services function - model 3.
MH32 = Switching module processor message handler 32 (MH32) operational image.
MHEIB = Switching module processor message handler EIB (MHEIB) operational image.
MHLB = Switching module processor MH little boot image.
MHPPC = Switching module processor message handler power PC (MHPPC) operational image.
MHPPCLB = Switching module processor MHPPC little boot image.
MSGH = Message handler.
ODMA = Operational direct memory access.
OIOP = Operational input/output processor.
OIU24 = Optical interface unit - 24 channels.
PH2A = Protocol handler 2 (PH2) ACCESS application processor (AP) image.
PH2G = PH2 GATEWAY AP image.
PH22I = PH22 wireless ISDN AP image.
PH22S = PH22 signaling AP image.
PH3C = PH3 COMMON AP image.
PH3S = PH3 CCS AP image.
PH4A = PH4 access AP image.
PH4G = PH4 gateway AP image.
PH4I = PH4 ISDN AP image.
PHA1A = Protocol handler for asynchronous transfer mode (ATM) AP image.
PHA2A = Protocol handler for ATM model 2 AP image.
PH2E2E = Protocol handler for ethernet.
PI = Packet interface.
PI2 = Packet interface unit 2.
PHV1C = Protocol handler for voice version 1 (PHV1) for CDMA AP image.
PHV2C = PHV2 for CDMA application AP image.
PHV3C = PHV3 for CDMA application AP image.
PHV4C = PHV4 for CDMA application AP image.
PHV5C = PHV5 for CDMA application AP image.
RAF = Recorded announcement function.
SAS = Service announcement system operational image.
SM = Switching module.
V3DACP = ACELP DSP for TDMA PHV3.
V4D13K = 13K DSP, for CDMA for PHV4.
V4D8K = 8K DSP, for CDMA for PHV4.
V4DACP = ACELP DSP, for TDMA for PHV4.
V4DEVR1 = EVRC1 DSP, for CDMA for PHV4.
V4DEVR2 = EVRC2 DSP, for CDMA for PHV4.
V4DEVR3 = EVRC3 DSP, for CDMA for PHV4.
V4DVSP = VSELP DSP, for TDMA for PHV4.
V4DISL = ISLP DSP, for IS41 TDMA PHV4 data circuit.
V5D13K = 13K DSP, for CDMA for PHV5.
V5D8K = 8K DSP, for CDMA for PHV5.
V5DACP = ACELP DSP, for TDMA for PHV5.
V5DEVR1 = EVRC1 DSP, for CDMA for PHV5.
V5DEVR2 = EVRC2 DSP, for CDMA for PHV5.
V5DEVR3 = EVRC3 DSP, for CDMA for PHV5.
V5DVSP = VSELP DSP, for TDMA PHV5.
V5DISL = ISLP DSP, for IS41 TDMA PHV5 data circuit.

4. SYSTEM RESPONSE

PF = Printout follows. The request has been accepted. Followed by the UPD:RCVRY output message.

5. REFERENCES

Input Message(s):

UPD:PMPPERF
UPD:VFYCON

Output Message(s):

UPD:PMPPERF
UPD:RCVRY
UPD:SYSERR
UPD:USRERR
UPD:VFYCON

Other Manual(s):
235-105-210 Routine Operations and Maintenance

MCC Display Page(s):
1950 PROGRAM UPDATE MAINTENANCE
1960 INSTALL BWM
UPD:RCVRY-C

Software Release: 5E16(2) and later
Command Group: SFTMGT
Application: 5,3B
Type: Input

1. PURPOSE

Requests a program update roll backward or roll forward operation.

The roll forward operation is normally used when it is reasonably certain that the update operation in question did not cause the inconsistency (such as an installed update causing a processor boot). This may result in updates having to be reapplied. The roll backward operation will attempt to remove the update inconsistency by removing temporary updates until consistency is restored.

2. FORMAT

UPD:RCVRY:{BKWD|FRWD}{,ALL|,TARGET=a};

3. EXPLANATION OF MESSAGE

ALL  = Recover all processors.

BKWD  = Perform backward synchronization; that is, recover from an update inconsistency by removing the appropriate temporary update(s) from the affected processor(s) and file(s).

FRWD  = Perform forward synchronization; that is, recover from an update inconsistency by reinstalling the appropriate temporary update(s) in the affected processor(s) and files(s).

a  = Type of processor to be recovered. Valid value(s):
   AM  = Administrative module.
   CMP = Communication module processor.
   DDMA = Diagnostic direct memory access
   DNUSCC = Digital networking unit - synchronous optical network (SONET) (DNU-S) common control.
   DNUSTMX = Transmission multiplexer.
   DSC3 = Digital service circuit - model 3.
   DSP13K = 8K digital signal processor (DSP) for code division multiple access (CDMA) protocol handler for voice.
   DSP8K = 8K digital signal processor for CDMA protocol handler for voice.
   DSPEVRC = EVRC digital signal processor for CDMA protocol handler for voice.
   GDSF = Global digital services function - model 3.
   HDSU = Hardware digital service unit.
   HSAS = Service announcement system diagnostic image.
   IDCUCCP = Integrated digital carrier unit (IDCU) common control processor.
   IDCUDLP = IDCU data link processor.
   IDCULSI = IDCU loop side interface.
   IP22 = PH22 common input/output processor (IOP) image.
   IP3S = PH3 CCS IOP image.
   IP4F = Frame relay PH4 IOP image.
   IP4I = ISDN PH4 IOP image.
   IP4IF = ISDN frame relay PH4 IOP image.
   ISLU = Integrated services line unit.
<table>
<thead>
<tr>
<th>Abbreviation</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>ISLU2</td>
<td>Integrated services line unit 2.</td>
</tr>
<tr>
<td>ISTF</td>
<td>Integrated services test function.</td>
</tr>
<tr>
<td>LDSU</td>
<td>Local digital service unit.</td>
</tr>
<tr>
<td>LDSF</td>
<td>Local digital services function - model 3.</td>
</tr>
<tr>
<td>MH32</td>
<td>Switching module processor message handler 32 (MH32) operational image.</td>
</tr>
<tr>
<td>MHEIB</td>
<td>Switching module processor message handler EIB (MHEIB) operational image.</td>
</tr>
<tr>
<td>MHLB</td>
<td>Switching module processor MH little boot image.</td>
</tr>
<tr>
<td>MHPPC</td>
<td>Switching module processor message handler <em>PowerPC</em>® (MHPPC) operational image.</td>
</tr>
<tr>
<td>MHPPCLB</td>
<td>Switching module processor MHPPC little boot image.</td>
</tr>
<tr>
<td>MSGH</td>
<td>Message handler.</td>
</tr>
<tr>
<td>ODMA</td>
<td>Operational direct memory access.</td>
</tr>
<tr>
<td>OIOP</td>
<td>Operational input/output processor.</td>
</tr>
<tr>
<td>OIU24</td>
<td>Optical interface unit (OIU) - 24 channels.</td>
</tr>
<tr>
<td>OIU1P</td>
<td>Optical interface unit - internet protocol (IP).</td>
</tr>
<tr>
<td>PH2A</td>
<td>Protocol handler 2 (PH2) ACCESS application processor (AP) image.</td>
</tr>
<tr>
<td>PH2G</td>
<td>PH2 GATEWAY AP image.</td>
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<tr>
<td>PH22I</td>
<td>PH22 wireless ISDN AP image.</td>
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<tr>
<td>PH22S</td>
<td>PH22 signaling AP image.</td>
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<td>PH3 COMMON AP image.</td>
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<td>PH4A</td>
<td>PH4 access AP image.</td>
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<tr>
<td>PH4G</td>
<td>PH4 gateway AP image.</td>
</tr>
<tr>
<td>PH4I</td>
<td>PH4 ISDN AP image.</td>
</tr>
<tr>
<td>PHA1A</td>
<td>Protocol handler for asynchronous transfer mode (ATM) AP image.</td>
</tr>
<tr>
<td>PHA2A</td>
<td>Protocol handler for ATM model 2 AP image.</td>
</tr>
<tr>
<td>PHE2E</td>
<td>Protocol handler for ethernet.</td>
</tr>
<tr>
<td>PI</td>
<td>Packet interface.</td>
</tr>
<tr>
<td>P12</td>
<td>Packet interface unit 2.</td>
</tr>
<tr>
<td>PHV1C</td>
<td>Protocol handler for voice version 1 (PHV1) for CDMA AP image.</td>
</tr>
<tr>
<td>PHV2C</td>
<td>PHV2 for CDMA application AP image.</td>
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<tr>
<td>PHV3C</td>
<td>PHV3 for CDMA application AP image.</td>
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<tr>
<td>PHV4C</td>
<td>PHV4 for CDMA application AP image.</td>
</tr>
<tr>
<td>PHV5C</td>
<td>PHV5 for CDMA application AP image.</td>
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<tr>
<td>RAF</td>
<td>Recorded announcement function.</td>
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<td>SAS</td>
<td>Service announcement system operational image.</td>
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<tr>
<td>SM</td>
<td>Switching module.</td>
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<tr>
<td>V3DACP</td>
<td>ACELP DSP for TDMA PHV3.</td>
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<tr>
<td>V4D13K</td>
<td>13K DSP, for CDMA for PHV4.</td>
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<td>8K DSP, for CDMA for PHV4.</td>
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<td>V4DACP</td>
<td>ACELP DSP, for TDMA for PHV4.</td>
</tr>
<tr>
<td>V4DEVR1</td>
<td>EVRC1 DSP, for CDMA for PHV4.</td>
</tr>
<tr>
<td>V4DEVR2</td>
<td>EVRC2 DSP, for CDMA for PHV4.</td>
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<td>V4DEVR3</td>
<td>EVRC3 DSP, for CDMA for PHV4.</td>
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<td>V4DVSP</td>
<td>VSELP DSP, for TDMA for PHV4.</td>
</tr>
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<td>V4DISL</td>
<td>ISLP DSP, for IS41 TDMA PHV4 data circuit.</td>
</tr>
<tr>
<td>V5D13K</td>
<td>13K DSP, for CDMA for PHV5.</td>
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<td>V5D8K</td>
<td>8K DSP, for CDMA for PHV5.</td>
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<td>V5DACP</td>
<td>ACELP DSP, for TDMA for PHV5.</td>
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V5DEVR2 = EVRC2 DSP, for CDMA for PHV5.
V5DEVR3 = EVRC3 DSP, for CDMA for PHV5.
V5DVSP = VSELP DSP, for TDMA PHV5.
V5DISL = ISLP DSP, for IS41 TDMA PHV5 data circuit.

4. SYSTEM RESPONSE

PF = Printout follows. The request has been accepted. Followed by the UPD:RCVRY output message.

5. REFERENCES

Input Message(s):

UPD:PMPPERF
UPD:VFYCON

Output Message(s):

UPD:PMPPERF
UPD:RCVRY
UPD:SYSERR
UPD:USRERR
UPD:VFYCON

Other Manual(s):
235-105-210 Routine Operations and Maintenance

MCC Display Page(s):
1950 PROGRAM UPDATE MAINTENANCE
1960 INSTALL BWM
UPD:RDTA

- **Software Release**: 5E14 and later
- **Command Group**: TRKLN
- **Application**: 5
- **Type**: Input

1. **PURPOSE**

To update the timer value for a given active remote digital test access (RDTA) session and to change the duration period.

This input message will cause the duration timer to be reinitialized, allowing the active RDTA session to continue for another duration interval. The duration interval can also be changed by including the optional parameter DUR. The timer may be reset for any session at any time during the session.

Thirty minutes before the termination interval specified on the EXC:RDTA input message, a warning UPD:RDTA output message will print to indicate that the RDTA session will be terminated in 30 minutes. The user may keep the active RDTA session alive by inputting this message within 30 minutes.

The active RDTA session will be updated based on the session number returned in the EXC:RDTA output message after the connection was setup. The session number must either be known by the user attempting maintenance or it can be found by exercising the OP:RDTA input message to receive information on all sessions (SES=ALL option). This session number input verifies the user's knowledge of the session's status to the switch when changes are made affecting the session.

2. **FORMAT**

   UPD:RDTA, SES=a[, DUR=b];

3. **EXPLANATION OF MESSAGE**

   a = Session number of the active RDTA session for which the duration timer is to be reinitialized.

   b = The maximum duration for the RDTA session. The valid values are 1 to 7 (days) or 0 (infinite). If no new period (DUR) is specified on the input message, the session will be prolonged by the original period from the time the input message is executed.

4. **SYSTEM RESPONSE**

   PF = Printout follows. The request has been accepted. Followed by a UPD:RDTA output message.

5. **REFERENCES**

Input Message(s):

   - EXC:RDTA
   - OP:RDTA
   - STP:RDTA
   - VFY:RDTA

Output Message(s):
Other Manual(s):
235-105-110  System Maintenance Requirements and Tools
235-900-301  ISDN Basic Rate Interface Specification
UPD:REBOOT

Software Release: 5E14 and later
Command Group: SFTMGT
Application: 5,3B
Type: Input

1. PURPOSE

Requests that the software update database be updated to reflect the backing out of any temporary administrative module (AM) updates active at the time of the reboot.

The software update processes will be informed automatically as part of a normal boot that a system reboot has occurred. Whenever a level 2 (or higher) reboot occurs, all temporary updates are, by definition, backed out.

2. FORMAT

UPD:REBOOT;

3. EXPLANATION OF MESSAGE

No variables.

4. SYSTEM RESPONSE

PF = Printout follows. Followed by one or more UPD:REBOOT output message(s).

RL = Retry later. Another UPD input message is active.

5. REFERENCES

Input Message(s):

UPD:BKOUT
UPD:DISPLAY
UPD:UPNAME

Output Message(s):

UPD:DISPLAY
UPD:SYSERR
UPD:USRERR

Other Manual(s):

235-105-210 Routine Operations and Maintenance

MCC Display Page(s):

1950 (PROGRAM UPDATE MAINTENANCE)
1960 (INSTALL BWM)
UPD:RECOVERY

Software Release: 5E14 and later
Command Group: SFTMGT
Application: 5
Type: Input

1. PURPOSE

Requests a program update roll backward or roll forward operation.

2. FORMAT

UPD:RECOVERY:{BKWD|FRWD};

3. EXPLANATION OF MESSAGE

BKWD = Perform backward synchronization; that is, recover from an update inconsistency by removing the appropriate update(s) from the affected processor(s) and file(s).

FRWD = Perform forward synchronization; that is, recover from an update inconsistency by reinstalling the appropriate update(s) to the affected processor(s) and files(s).

4. SYSTEM RESPONSE

OK = Good. The request has been accepted. Followed by a UPD:RCVRY output message.

5. REFERENCES

Input Message(s):

UPD:RCVRY

Output Message(s):

UPD:RCVRY
UPD:SYSERR

MCC Display Page(s):

1950 (PROGRAM UPDATE MAINTENANCE)
1960 (INSTALL BWM)
**UPD:REDUCE**

**Software Release:** 5E14 and later  
**Command Group:** SFTMGT  
**Application:** 5,3B  
**Type:** Input

1. **PURPOSE**

Requests smaller, more concise software update database entries after all updates on the administrative module (AM) have been made official. The smaller entries are placed in a backup update database (/etc/Bud). The existing software update database (/etc/Cud) file is reduced so that the update entries for those SUs that can still be backed out normally or through an official backout (UPD:BOLO) are kept in the main database (/etc/Cud), while all other entries are saved in a more concise format in the backup update database.

2. **FORMAT**

UPD:REDUCE[:PTLD];

3. **EXPLANATION OF MESSAGE**

**PTLD**  
- This option will reset the software update sequence number to zero.

4. **SYSTEM RESPONSE**

**PF**  
- Printout follows. Followed by UPD:REDUCE output message.

**RL**  
- Retry later. Another UPD input message is active.

5. **REFERENCES**

Output Message(s):

- UPD:REDUCE
- UPD:SYSERR
- UPD:USRERR
- UPD:WARNING

Other Manual(s):

235-105-210  *Routine Operations and Maintenance*

MCC Display Page(s):

1950 (PROGRAM UPDATE MAINTENANCE)  
1960 (INSTALL BWM)
UPD:RESET-3B

Software Release: 5E14 and later
Command Group: SFTMGT
Application: 5,3B
Type: Input

1. PURPOSE

Requests that if an operation to an administrative module (AM) field update fails, that update's status may be "reset" to a previously "accepted" state.

2. FORMAT

UPD:RESET[,VLEV=a];

3. EXPLANATION OF MESSAGE

a = The flag, 'a', requests additional output form a Field Update process. Verbose flags may be set for UPD and ucm. The flags must be entered in the order the processes are listed. To turn on the verbose output for ucm, UPD's flag must be used or set to zero.

4. SYSTEM RESPONSE

PF = Printout follows. Followed by UPD output messages.

5. REFERENCES

Input Message(s):

UPD:DISPLAY
UPD:OMIT
UPD:PERM

Output Message(s):

UPD:APPLY
UPD:BKOUT
UPD:BLDBOOT
UPD:CLR
UPD:DISPLAY
UPD:FTRC-3B
UPD:GEN-APPL
UPD:GEN-BACKOUT
UPD:GEN-COMMIT
UPD:GEN-CONTINUE
UPD:GEN-CONTINUE
UPD:GEN-CONTINUE
UPD:GEN-PROCEED
UPD:GEN-RESTORE
UPD:ISG
UPD:OMDB
UPD:REDUCE
UPD:REPT
UPD: SYSERR
UPD: UPNM
UPD: USRERR
UPD: VFY

Other Manual(s):
235-105-210  Routine Operations and Maintenance

MCC Display Page(s):
FIELD UPDATE PAGE
UPD:RESET

Software Release: 5E14 and later
Command Group: SFTMGT
Application: 5,3B
Type: Input

1. PURPOSE

Requests that the soak timer duration (TM) of the software update (SU) that is currently soaking be updated, or that the soak timer for the SU that is currently soaking be stopped (ABORT), or that the line number (LINE) to be executed next for the SU loaded on the Master Control Center (MCC) 1960 page be changed.

2. FORMAT

UPD:RESET: [LINE=a|TM=b-c|ABORT];

3. EXPLANATION OF MESSAGE

ABORT = Stop the soak timer.

a = Reset execution to a specified line number displayed on the "1960" program update installation page (MSGS file). Line number is a 3-digit number. The default is 1 (first line of the MSGS file).

b = Number of hours in the software update soak interval (0-99).

c = Number of minutes in the software update soak interval (0-59).

4. SYSTEM RESPONSE

OK = Good. The message was accepted and the action completed.

5. REFERENCES

Other Manual(s):
235-105-210 Routine Operations and Maintenance

MCC Display Page(s):
1950 (PROGRAM UPDATE MAINTENANCE)
1960 (INSTALL BWM)
**UPD:SET**

**Software Release:** 5E14 and later  
**Command Group:** SFTMG  
**Application:** 5  
**Type:** Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. **PURPOSE**

Requests the setting of the SU (Software Update), the SOAK timer and the completed stage where the installation execution is to stop.

Format 1 is used for setting the SU name that will identify the package to be scheduled for installation by the automation process. Note: To be used with UPD:INSTL:START; typically used internal to SU automation. Format 2 is used for stopping the SU installation process when either the SOAK stage or the PREPARE stage has completed. Format 3 is used to pre-set the SOAK time interval for SU installation. to pre-set the SOAK time interval for SU installation”

WARNING: Not to be confused with UPD:SKTMR:DEFLT; Typically used internal to SU automation; To be used with UPD:INSTL:START

2. **FORMAT**

   [1] UPD:SET:SU="a";

3. **EXPLANATION OF MESSAGE**

   a  = SU name (maximum of 10 characters).

   b  = Stage. Valid value(s):
       AFTSK  = After the soak stage.
       AFTPR  = After the prepare stage.

   c  = Timer duration. In the form, **HH:MM** Total duration can not exceed 72 hours.
       HH  = Number of hours that the soak timer duration should be set for.
       MM  = Number of minutes that the soak timer duration should be set for.

4. **SYSTEM RESPONSE**

   NG  = No good.
   PFf = Print follows.
5. REFERENCES

Input Message(s):

UPD: INSTL

Output Message(s):

UPD: SYSERR
UPD: USRERR

Other Manual(s):

235-105-210  Routine Operations and Maintenance

MCC Display Page(s):

(SU INSTALLATION)
UPD:SKTMR
Software Release: 5E14 and later
Command Group: SFTMGT
Application: 5
Type: Input

1. PURPOSE
Requests that the SOAK timer either have its default time changed, timer restarted, timer report printed or timer canceled.

2. FORMAT
UPD:SKTMR:a;

3. EXPLANATION OF MESSAGE
a = Soak timer action. Valid value(s):
   ABORT = Cancel the soak timer. The soak timer must be restarted and allowed to complete before an SU can be made official.
   DEFLT=b = Change the default time used by the soak timer. Changing the default timer will have no effect on a running soak timer.
   PRINT = Print the soak timer report to the ROP.
   RESET=b = Restart the soak timer with a given duration. This will not affect the default time.

b = Duration in the form "HH:MM". Total duration is not to exceed 72 hours.
   HH = Number of hours.
   MM = Number of minutes.

4. SYSTEM RESPONSE
NG = No good.
PF = Print follows.

5. REFERENCES
Output Message(s):
   UPD:SYSERR
   UPD:USRERR

Other Manual(s):
235-105-210 Routine Operations and Maintenance

MCC Display Page(s):
   SU INSTALLATION
UPD:SSD

Software Release: 5E14 and later
Command Group: TRKLN
Application: AEWNC
Type: Input

1. PURPOSE

Requests that the shared secret data (SSD) associated with an Air Extension\textsuperscript{SM} wireless subscriber be updated. The SSD is subscriber specific data that is stored in both the wireless network controller (WNC) and every subscriber's wireless phone. This data is used for authentication, to prevent access by unauthorized subscribers, and for voice encryption, that provides call security.

This message may also be executed as part of the routine maintenance performed for an Air Extension\textsuperscript{SM} system to ensure maximum system security.

Caution: It may be useful to execute the OP:WCPE input message for the wireless subscriber before executing the UPD:SSD input message. Output from the OP:WCPE message may be needed later to help determine the results of an SSD update. Refer to the complete SSD update procedure in the Air Extension\textsuperscript{SM} Reference Guide.

2. FORMAT

UPD:SSD,DN=a;

3. EXPLANATION OF MESSAGE

\(a\)

= 10 digit wireless directory number (DN).

4. SYSTEM RESPONSE

\(RL\)

= Retry later. The request has been denied, probably due to system load.

\(PF\)

= Printout follows. The request has been accepted and is followed by an UPD:SSD output message.

5. REFERENCES

Input Message(s):

OP:WCPE

Output Message(s):

OP:WCPE
REPT:AUTH
UPD:SSD

Other Manual(s):
230-701-100  Air Extension™ Reference Guide
230-701-120  Air Extension™ User Guide
UPD:STOP-INSTL

Software Release: 5E14 and later
Command Group: SFTMGT
Application: 5
Type: Input

1. PURPOSE

Request that the SU installation process be stopped. The process will finish the current command line and then stop at that point.

2. FORMAT

UPD:STOP:INSTL;

3.EXPLANATION OF MESSAGE

No variables.

4. SYSTEM RESPONSE

NG = No good.

PF = Print follows.

5. REFERENCES

Output Message(s):

UPD:SYSERR

Other Manual(s):

235-105-210 Routine Operations and Maintenance

MCC Display Page(s):

SU INSTALLATION
UPD:STOP-SOAK
Software Release: 5E14 and later
Command Group: SFTMGT
Application: 5,3B
Type: Input

1. PURPOSE
This input message should be used in conjunction with easy software update (SU) installation. Refer to Master Control Center (MCC) page 1940. It requests that the easy SU installation process stop the SU installation after the SOAK section of the SU has been completed. The input message should be used BEFORE easy SU installation is started using the UPD:START:EASYBWM input message.

2. FORMAT

UPD:STOP:SOAK;

3. EXPLANATION OF MESSAGE
No variables.

4. SYSTEM RESPONSE

OK = Good. The request has been accepted.

5. REFERENCES
Input Message(s):

UPD:CHG-INST
UPD:START-EASY

Output Message(s):

UPD:EASY-BWM

Other Manual(s):
235-105-210  Routine Operations and Maintenance

MCC Display Page(s):

1940 (EASY BWM INSTALLATION)
1950 (PROGRAM UPDATE MAINTENANCE)
1960 (INSTALL BWM)
UPD:UPDCON

Software Release: 5E14 and later
Command Group: N/A
Application: 5,3B
Type: Input

1. PURPOSE

Requests verification of software update consistency and a summary of any software update inconsistencies that exist in the system.

2. FORMAT

UPD:UPDCON;

3. EXPLANATION OF MESSAGE

No variables.

4. SYSTEM RESPONSE

OK = Good. The request was accepted and is in progress. Followed by a UPD:VFYCON output message.

5. REFERENCES

Input Message(s):

UPD:VFYCON

Output Message(s):

UPD:VFYCON

Other Manual(s):

235-105-210  Routine Operations and Maintenance

MCC Display Page(s):

1940 (EASY BWM INSTALLATION)
1950 (PROGRAM UPDATE MAINTENANCE)
1960 (INSTALL BWM)
**UPD:UP DDSPLY**

**Software Release:** 5E14 and later  
**Command Group:** N/A  
**Application:** 5  
**Type:** Input

### 1. PURPOSE

Requests information about updates to the system through software update procedures.

Format 1 requests update information relating to a specific software update name.

Format 2 requests update information about all official (OFC) or temporary (TMP) updates.

Format 3 requests information on all (ALL) software updates in the software update database. The BACKLOG option retrieves concise software update database entries of all updates stored in /etc/Bud, the backup update database. Refer to the UPD:DISPLAY output message.

### 2. FORMAT

1. UPD:UP DDSPLY:BWM[=b];

2. UPD:UP DDSPLY:a[,V];

3. UPD:UP DDSPLY:ALL[,BACKLOG|,SUM|,V];

### 3. EXPLANATION OF MESSAGE

- **a** = Update type. Valid value(s):
  - OFC = Official update.
  - TMP = Temporary update.

- **b** = Software update name specified as BWMyy-nnnn, TMPyy-nnnnn (temporary) or CFTyy-nnnn where BWM, TMP and CFT identify the category of software update, yy is the last two digits of the year issued, and nnnn is the sequence number identifying the software update.

### 4. SYSTEM RESPONSE

**OK** = Good. The request has been accepted and a UPD:DISPLAY output message will follow.

### 5. REFERENCES

**Input Message(s):**

- UPD:DISPLAY
- UPD:REDUCE

**Output Message(s):**

- UPD:DISPLAY

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Other Manual(s):
235-105-210  Routine Operations and Maintenance

MCC Display Page(s):

1950 (PROGRAM UPDATE MAINTENANCE)
UPD:VERSION

Software Release: 5E14 and later
Command Group: MAINT
Application: 5,3B
Type: Input

1. PURPOSE

Requests update of the text version and/or software update level of the file system partitions. This information can be used to identify the partitions' text version and software update level should they become detached from the equipment configuration database (ECD). Normally, this message is only entered by the software update updating procedure.

Format 1 is used to apply (advance) the version.

Format 2 is used to backout a version.

2. FORMAT

[1] UPD:VERSION, APPLY="a", [UCL];
[2] UPD:VERSION, BKOUT="b", [UCL];

3. EXPLANATION OF MESSAGE

UCL = Unconditional. This option is provided so the message is accepted if the software update procedure is executed with the UCL append option. It has no effect.

a = A quoted string indicating the new text version and software update level, with the format "ccc(d)ee.ff gghh-iiii" where:
ccc = The software release (such as '5e2').
d = The issue (such as '1').
ee = The release (such as '03').
ff = The point (such as '04').
ggg = The type (such as, 'BWM', 'CFT' or 'TMP').
hh = The year (such as '85').
iiii = The sequence number (such as '0123').

For example: "5e2(1)03.04 BWM85-0123"

To be consistent with system documentation, the release, point and year are padded with a leading zero, if need be, to obtain two digits. Likewise, the sequence number is padded with leading zeros to obtain four digits.

b = A quoted string indicating the previous text version and software update level. Refer to the version string format defined in variable 'a'.

4. SYSTEM RESPONSE

NG = No good. May also include:
   x = software release, issue, release point, type, year or sequence number. This item was not present in the version string. Correct and re-enter message.
OK = Good. Command accepted, no output message will follow.

PF = Printout follows. Command accepted, and a UPD:VERSION output message will follow.

5. REFERENCES

Input Message(s):

   OP:VERSION

Output Message(s):

   OP:VERSION
   UPD:VERSION
UPD:VFY

Software Release: 5E14 and later
Command Group: SFTMGT
Application: 5,3B
Type: Input

1. PURPOSE

Requests that software updates which are updates in the field update directory be updated. An update may be verified any number of times. Update filenames may also be displayed from this message.

2. FORMAT

UPD:VFY:{BWM="a"[-"a"[-"a"...]]|ALL}|,BSDIR="b"|,LIST};

3. EXPLANATION OF MESSAGE

ALL = Verify all software updates in the base directory that match the software update format in variable 'a'.

LIST = List all filenames received for the specified BWM(s).

a = Software update name. A list of 1 to 10 BWM names may be given, specified as BWMyy-nnnn, TMPyy-nnnn (temporary), or CFTyy-nnnn where BWM, TMP, and CFT identify the category of software update, yy is the last two digits of the year, and nnnn is the sequence number identifying the software update. Refer to the Routine Operations and Maintenance manual for instructions on entering a list of names (" " is required).

b = Base directory name. Refer to the Routine Operations and Maintenance manual for definitions of directory, pathname, and file. The default is /etc/bwm.

4. SYSTEM RESPONSE

PF = Printout follows. The request has been accepted. Followed by a UPD:VFY output message.

5. REFERENCES

Output Message(s):

UPD:SYSERR
UPD:USRERR
UPD:VFYCON

Other Manual(s):
235-105-210 Routine Operations and Maintenance

MCC Display Page(s):
1950 (PROGRAM UPDATE MAINTENANCE)
1960 (INSTALL BWMM)
UPD:VFYCON-A

Software Release: 5E14 - 5E15
Command Group: SFTMGT
Application: 5,3B
Type: Input

1. PURPOSE

Requests verification of update consistency and a summary of all update inconsistencies that exist in the system.

2. FORMAT

UPD:VFYCON:{ALL|TARGET=a};

3. EXPLANATION OF MESSAGE

ALL = Verify update consistency of all processor images.

a = The processor image whose consistency is to be verified. Valid value(s):

AMPATH = Office specific update in the AM.
CMP = Communication module processor.
DDMA = Diagnostic direct memory access
DNUSCC = Digital networking unit - synchronous optical network (SONET) (DNU-S) common control.
DNUSTMX = Transmission multiplexer.
DSC3 = Digital service circuit - model 3.
DSP13K = 8K digital signal processor for CDMA protocol handler for voice.
DSP8K = 8K digital signal processor for CDMA protocol handler for voice.
DSPEVRC = EVRC digital signal processor for CDMA protocol handler for voice.
GDSF = Global digital services function - model 3.
HDSU = Hardware digital service unit.
HSAS = Service announcement system diagnostic image.
IDCUCCP = Integrated digital carrier unit (IDCU) common control processor.
IDCUDLP = IDCU data link processor.
IDCULSI = IDCU loop side interface.
IP3S = Protocol handler 3 CCS OIP image.
IP4F = Frame relay protocol handler version 4 I/O processor.
IP4I = PH4I operational input/output processor.
IP4IF = ISDN Frame Relay protocol handler version 4 I/O processor.
ISLU = Integrated services line unit.
ISLU2 = Integrated services line unit 2.
ISTF = Integrated services test function.
LDSU = Local digital service unit.
LDSF = Local digital services function - model 3.
MSGH = Message handler.
ODMA = Operational direct memory access.
O1OP = Operational input/output processor.
PH2A = Protocol handler 2 (PH2) with ACCESS application processor image.
PH2G = PH2 with GATEWAY application processor image.
PH3C = Protocol handler 3 (PH3) with COMMON application processor image.
PH3S = PH3 CCS AP image.
PH4A = Protocol handler 4 (PH4) access image.
PH4G = PH4 gateway image.
PH4I = PH4 with integrated services digital network (ISDN) application processor image.
PHA1A = Protocol handler for ATM (asynchronous transfer mode).
PI = Packet interface.
PI2 = Packet interface unit 2.
PHV1C = Protocol handler for voice for CDMA (code division multiple access).
PHV3C = Protocol handler for voice version 3 for CDMA application.
PHV4C = Protocol handler for voice version 4 for CDMA application.
RAF = Recorded announcement function.
SAS = Service announcement system operational image.
SM = Switching module.
SMPMH = Switching module processor message handler (MH) operational image.
SMPMHLB = Switching module processor MH little boot image.
V3DACP = ACELP digital signal processor, for TDMA protocol handler for voice.
V4D13K = 13K DSP, for CDMA protocol handler for voice version 4.
V4D8K = 8K DSP, for CDMA protocol handler for voice version 4.
V4DACP = ACELP DSP, for TDMA protocol handler for voice version 4.
V4DEVR1 = EVRC1 DSP, for CDMA protocol handler for voice version 4.
V4DEVR2 = EVRC2 DSP, for CDMA protocol handler for voice version 4.
V4DEVR3 = EVRC3 DSP, for CDMA protocol handler for voice version 4.
V4DVSP = VSELP DSP, for TDMA protocol handler for voice version 4.
V4DISL = ISLP DSP, for IS41 TDMA protocol handler for data circuit.

4. SYSTEM RESPONSE

PF = Printout follows. The request has been accepted. Followed by the UPD:VFYCON output message.

5. REFERENCES

Input Message(s):

UPD:PMPPERF

Output Message(s):

UPD:PMPPERF
UPD:SYSERR
UPD:USRERR
UPD:VFYCON

Other Manual(s):
235-105-210 Routine Operations and Maintenance

MCC Display Page(s):
1950 PROGRAM UPDATE MAINTENANCE
1960 INSTALL BWM
UPD:VFYCON-B

Software Release: 5E16(1) only
Command Group: SFTMGT
Application: 5,3B
Type: Input

1. PURPOSE

Requests verification of update consistency and a summary of all update inconsistencies that exist in the system.

2. FORMAT

UPD:VFYCON:{ALL|TARGET=a};

3. EXPLANATION OF MESSAGE

ALL = Verify update consistency of all processor images.

a = The processor image whose consistency is to be verified. Valid value(s):
   AMPATH = Office specific update in the AM.
   CMP = Communication module processor.
   DDMA = Diagnostic direct memory access.
   DNUSCC = Digital networking unit - synchronous optical network (SONET) (DNU-S) common control.
   DNUSTMX = Transmission multiplexer.
   DSC3 = Digital service circuit - model 3.
   DSP13K = 8K digital signal processor (DSP) for code division multiple access (CDMA) protocol handler for voice.
   DSP8K = 8K digital signal processor for CDMA protocol handler for voice.
   DSPEVRC = EVRC digital signal processor for CDMA protocol handler for voice.
   GDSF = Global digital services function - model 3.
   HDSU = Hardware digital service unit.
   HSAS = Service announcement system diagnostic image.
   IDCUCCP = Integrated digital carrier unit (IDCU) common control processor.
   IDCUDLP = IDCU data link processor.
   IDCULSI = IDCU loop side interface.
   IP22 = PH22 common input/output processor (IOP) image.
   IP3S = PH3 CCS IOP image.
   IP4F = Frame relay PH4 IOP image.
   IP4I = ISDN PH4 IOP image.
   IP4IF = ISDN frame relay PH4 IOP image.
   ISLU = Integrated services line unit.
   ISLU2 = Integrated services line unit 2.
   ISTF = Integrated services test function.
   LDSU = Local digital service unit.
   LDSF = Local digital services function - model 3.
   MH32 = Switching module processor message handler 32 (MH32) operational image.
   MHEIB = Switching module processor message handler EIB (MHEIB) operational image.
   MHLB = Switching module processor MH little boot image.
   MHPPC = Switching module processor message handler power PC (MHEPPC) operational image.
   MHPPCLB = Switching module processor MHPPC little boot image.
MSGH = Message handler.
ODMA = Operational direct memory access.
O1OP = Operational input/output processor.
O1U24 = Optical interface unit - 24 channels.
PH2A = Protocol handler 2 (PH2) ACCESS application processor (AP) image.
PH2G = PH2 GATEWAY AP image.
PH22I = PH22 wireless ISDN AP image.
PH22S = PH22 signaling AP image.
PH3C = PH3 COMMON AP image.
PH3S = PH3 CCS AP image.
PH4A = PH4 access AP image.
PH4G = PH4 gateway AP image.
PH4I = PH4 ISDN AP image.
PHA1A = Protocol handler for asynchronous transfer mode (ATM) AP image.
PHA2A = Protocol handler for ATM model 2 AP image.
PHE2E = Protocol handler for ethernet.
P1 = Packet interface.
P12 = Packet interface unit 2.
PHV1C = Protocol handler for voice version 1 (PHV1) for CDMA AP image.
PHV2C = PHV2 for CDMA application AP image.
PHV3C = PHV3 for CDMA application AP image.
PHV4C = PHV4 for CDMA application AP image.
PHV5C = PHV5 for CDMA application AP image.
RAF = Recorded announcement function.
SAS = Service announcement system operational image.
SM = Switching module.
V3DACP = ACELP DSP for TDMA PHV3.
V4D13K = 13K DSP, for CDMA for PHV4.
V4D8K = 8K DSP, for CDMA for PHV4.
V4DACP = ACELP DSP, for TDMA for PHV4.
V4DEVR1 = EVRC1 DSP, for CDMA for PHV4.
V4DEVR2 = EVRC2 DSP, for CDMA for PHV4.
V4DEVR3 = EVRC3 DSP, for CDMA for PHV4.
V4DVSP = VSELP DSP, for TDMA for PHV4.
V4DISL = ISLP DSP, for IS41 TDMA PHV4 data circuit.
V5D13K = 13K DSP, for CDMA for PHV5.
V5D8K = 8K DSP, for CDMA for PHV5.
V5DACP = ACELP DSP, for TDMA for PHV5.
V5DEVR1 = EVRC1 DSP, for CDMA for PHV5.
V5DEVR2 = EVRC2 DSP, for CDMA for PHV5.
V5DEVR3 = EVRC3 DSP, for CDMA for PHV5.
V5DVSP = VSELP DSP, for TDMA PHV5.
V5DISL = ISLP DSP, for IS41 TDMA PHV5 data circuit.

4. SYSTEM RESPONSE

PF = Printout follows. The request has been accepted. Followed by the UPD:VFYCON output message.
5. REFERENCES

Input Message(s):

UPD:PMPPERF

Output Message(s):

UPD:PMPPERF
UPD:SYSERR
UPD:USRERR
UPD:VFYCON

Other Manual(s):
235-105-210  *Routine Operations and Maintenance*

MCC Display Page(s):
1950  PROGRAM UPDATE MAINTENANCE
1960  INSTALL BWM
UPD:VFYCON-C

Software Release: 5E16(2) and later
Command Group: SFTMGT
Application: 5,3B
Type: Input

1. PURPOSE
Requests verification of update consistency and a summary of all update inconsistencies that exist in the system.

2. FORMAT
UPD:VFYCON:{ALL|TARGET=a};

3. EXPLANATION OF MESSAGE

ALL = Verify update consistency of all processor images.

a = The processor image whose consistency is to be verified. Valid value(s):
AMPATH = Office specific update in the AM.
CMP = Communication module processor.
DDMA = Diagnostic direct memory access.
DNUSCC = Digital networking unit - synchronous optical network (SONET) (DNU-S) common control.
DNUSTMX = Transmission multiplexer.
DSC3 = Digital service circuit - model 3.
DSP13K = 8K digital signal processor (DSP) for code division multiple access (CDMA) protocol handler for voice.
DSP8K = 8K digital signal processor for CDMA protocol handler for voice.
DSPEVRC = EVRC digital signal processor for CDMA protocol handler for voice.
GDSF = Global digital services function - model 3.
HDSU = Hardware digital service unit.
HSAS = Service announcement system diagnostic image.
IDCUCCP = Integrated digital carrier unit (IDCU) common control processor.
IDCUDLP = IDCU data link processor.
IDCULSI = IDCU loop side interface.
IP22 = PH22 common input/output processor (IOP) image.
IP3S = PH3 CCS IOP image.
IP4F = Frame relay PH4 IOP image.
IP4I = ISDN PH4 IOP image.
IP4IF = ISDN frame relay PH4 IOP image.
ISLU = Integrated services line unit.
ISLU2 = Integrated services line unit 2.
ISTF = Integrated services test function.
LDSU = Local digital service unit.
LDSF = Local digital services function - model 3.
MH32 = Switching module processor message handler 32 (MH32) operational image.
MHEIB = Switching module processor message handler EIB (MHEIB) operational image.
MHLP = Switching module processor MH little boot image.
MHPCC = Switching module processor message handler PowerPC® (MHEPPC) operational image.
MHPPLCB = Switching module processor MHPPC little boot image.
MSGH = Message handler.
ODMA = Operational direct memory access.
OIOP = Operational input/output processor.
OIU24 = Optical interface unit (OIU) - 24 channels.
OIUIP = Optical interface unit - internet protocol (IP).
PH2A = Protocol handler 2 (PH2) ACCESS application processor (AP) image.
PH2G = PH2 GATEWAY AP image.
PH22I = PH22 wireless ISDN AP image.
PH22S = PH22 signaling AP image.
PH3C = PH3 COMMON AP image.
PH3S = PH3 CCS AP image.
PH4A = PH4 access AP image.
PH4G = PH4 gateway AP image.
PH4I = PH4 ISDN AP image.
PHA1A = Protocol handler for asynchronous transfer mode (ATM) AP image.
PHA2A = Protocol handler for ATM model 2 AP image.
PHE2E = Protocol handler for ethernet.
PI = Packet interface.
PI2 = Packet interface unit 2.
PHV1C = Protocol handler for voice version 1 (PHV1) for CDMA AP image.
PHV2C = PHV2 for CDMA application AP image.
PHV3C = PHV3 for CDMA application AP image.
PHV4C = PHV4 for CDMA application AP image.
PHV5C = PHV5 for CDMA application AP image.
RAF = Recorded announcement function.
SAS = Service announcement system operational image.
SM = Switching module.
V3DACP = ACELP DSP for TDMA PHV3.
V4D13K = 13K DSP, for CDMA for PHV4.
V4D8K = 8K DSP, for CDMA for PHV4.
V4DACP = ACELP DSP, for TDMA for PHV4.
V4DEVR1 = EVRC1 DSP, for CDMA for PHV4.
V4DEVR2 = EVRC2 DSP, for CDMA for PHV4.
V4DEVR3 = EVRC3 DSP, for CDMA for PHV4.
V4DVSP = VSELP DSP, for TDMA for PHV4.
V4DISL = ISLP DSP, for IS41 TDMA PHV4 data circuit.
V5D13K = 13K DSP, for CDMA for PHV5.
V5D8K = 8K DSP, for CDMA for PHV5.
V5DACP = ACELP DSP, for TDMA for PHV5.
V5DEVR1 = EVRC1 DSP, for CDMA for PHV5.
V5DEVR2 = EVRC2 DSP, for CDMA for PHV5.
V5DEVR3 = EVRC3 DSP, for CDMA for PHV5.
V5DVSP = VSELP DSP, for TDMA PHV5.
V5DISL = ISLP DSP, for IS41 TDMA PHV5 data circuit.

4. SYSTEM RESPONSE

PF = Printout follows. The request has been accepted. Followed by the UPD:VFYCON output
message.

5. REFERENCES

Input Message(s):

UPD:PMPPERF

Output Message(s):

UPD:PMPPERF
UPD:SYSERR
UPD:USRERR
UPD:VFYCON

Other Manual(s):

235-105-210 Routine Operations and Maintenance

MCC Display Page(s):

1950 PROGRAM UPDATE MAINTENANCE
1960 INSTALL BWM
81. VFY
VFY:AMATAPE

Software Release: 5E14 and later
Command Group: AMA
Application: 5
Type: Input

1. PURPOSE
Requests that a particular tape drive be set to the automatic message accounting (AMA) function and that the tape on that tape drive be verified.

2. FORMAT
VFY:AMATAPE:MT=a[,ST1|,ST2];

3. EXPLANATION OF MESSAGE

| ST1  | Send AMA data to the ST1 data stream. |
| ST2  | Send AMA data to the ST2 data stream. |

Note: For a single data stream office, the stream does not have to be specified as either an ST1 or ST2. However, for a dual stream office, the stream must be specified as either an ST1 or ST2.

a = Tape drive number.

4. SYSTEM RESPONSE

| IP   | In progress. Followed by a REPT:AMATAPE-VER output message if the tape option is in effect and there is no tape session in progress. |
| NG   | No good. A tape writing or verification session is in progress or the teleprocessing option is in effect, or AMA sessions have been manually inhibited, or data stream checks failed. |
| PF   | Printout follows. Invalid data was encountered while processing the input message. In this case, an audit printout will follow. |
| RL   | Retry later. A message could not be sent to the AMA monitor process. |
| ?I   | The tape drive number specified on the input message was invalid. |

5. REFERENCES

Input Message(s):

OP:AMA-STREAM
OP:AMA-CONTROLF

Output Message(s):
VFY:AUTH

Software Release: 5E14 and later
Command Group: N/A
Application: 5
Type: Input

1. PURPOSE

Verifies authority settings for the originating terminal. The VFY:AUTH output message displays the following authority information for the current terminal session: authority level, terminal identity, user identity, and command groups permitted.

This input message is associated with maintenance interface security. Refer to the Routine Operations and Maintenance manual for further information.

2. FORMAT

VFY:AUTH;

3. EXPLANATION OF MESSAGE

No variables.

4. SYSTEM RESPONSE

NG = No good. May also include:
   UNABLE TO ACCESS AUTHORITY ADMINISTRATION = The person authority database and/or terminal authority database is inaccessible or does not exist.

PF = Printout follows. Followed by VFY:AUTH output message.

5. REFERENCES

Input Message(s):

ADD:PAUTH
ADD:PCGRP
ADD:TAUTH
ADD:TCGRP
VFY:PAUTH
VFY:PCGRP
VFY:TAUTH
VFY:TCGRP

Output Message(s):

REPT:LOGIN
VFY:AUTH
VFY:PAUTH
VFY:PCGRP
VFY:TAUTH
VFY:TCGRP
1. PURPOSE
Requests that all lines assigned to a specific call pickup group (CPUG) number or lines having a form of directed call pickup be queried and reported.

2. FORMAT

```
VFY:CPU[,TN=a[-b]|,MLHG=c[&d]-e[&f]][,CPUG=g[-g][-g][-g][-g][,TYPE=h][,DEVICE=j];
```

3. EXPLANATION OF MESSAGE

- **a** = Telephone number (TN) or the lower limit of a range of TNs.
- **b** = Upper limit of a range of TNs. If entered CPUG is also required.
- **c** = Multi-line hunt group (MLHG) number or the lower limit of a range of MLHG numbers (1-2000).
- **d** = Upper limit of a range of MLHG numbers.
- **e** = MLHG terminal member number or the lower limit of a range of MLHG member numbers (1-2015).
- **f** = Upper limit of a range of MLHG members.
- **g** = Call pickup group (CPUG) number (2-65535).
- **h** = Type of call pickup. Valid value(s):
  - **O** = Originating.
  - **T** = Terminating.
  - **B** = Both originating and terminating.
  - **D** = Directed.

- **j** = Destination device or file for the report. The device or file name is input as a character string and must be enclosed with double quote characters. If the input string is prefixed by a slash (/), the destination will be taken as the name of a file. The length of the file name should not exceed thirty (30) characters.

The default destination for single CPUGs or single line is the name of the default tty device obtained from the environment variable LCHAN. The default destination for multiple CPUGs is the FILE vfycpu. Files are stored in the directory (/rclog).

4. SYSTEM RESPONSE

- **NG** = No good. An invalid argument in the input message was given or the default output device could not be determined.
PF = Printout follows. The request was received and the VFY:CPU output will follow.

RL = Retry later. The VFY:CPU process was not able to allocate temporary file resources.

5. REFERENCES

Output Message(s):

   VFY:CPU

Other Manual(s):

235-190-101  Business and Residence Modular Features
235-200-100  BRCS Assignment Guide
VFY:CPU-B

Software Release: 5E15 and later
Command Group: TRKLN
Application: 5
Type: Input

1. PURPOSE

Requests that all lines assigned to a specific call pickup group (CPUG) number or lines having a form of directed call pickup be queried and reported.

2. FORMAT

VFY:CPU[,TN=a[-b],MLHG=c[&d]-e[&f]][,CPUG=g[-g][-g][-g][-g]][,TYPE=h][,DEVICE=j][,NTFY=k];

3. EXPLANATION OF MESSAGE

a = Telephone number (TN) or the lower limit of a range of TNs.
b = Upper limit of a range of TNs. If entered CPUG is also required.
c = Multi-line hunt group (MLHG) number or the lower limit of a range of MLHG numbers (1-2000).
d = Upper limit of a range of MLHG numbers.
e = MLHG terminal member number or the lower limit of a range of MLHG member numbers (1-2015).
f = Upper limit of a range of MLHG members.
g = Call pickup group (CPUG) number (2-65535).
h = Type of call pickup. Valid value(s):
   B = Both originating and terminating.
   D = Directed.
   O = Originating.
   T = Terminating.

j = Destination device or file for the report. The device or file name is input as a character string and must be enclosed with double quote characters. If the input string is prefixed by a slash (/), the destination will be taken as the name of a file. The length of the file name should not exceed 30 characters.

The default destination for single CPUGs or single line is the name of the default tty device obtained from the environment variable LCHAN. The default destination for multiple CPUGs is the FILE vfycpu. Files are stored in the directory (/rclog).

k = Visual notification for originating call pickup. Valid value(s):
   N = No, the visual notification is not provided.
   Y = Yes, the visual notification is provided.
4. SYSTEM RESPONSE

NG = No good. An invalid argument in the input message was given or the default output device could not be determined.

PF = Printout follows. The request was received. Followed by the VFY:CPU output message.

RL = Retry later. The VFY:CPU process was not able to allocate temporary file resources.

5. REFERENCES

Output Message(s):

VFY:CPU

Other Manual(s):
235-190-103 Business and Residence Feature Description
1. PURPOSE

Requests that the contents of files that are essential to the booting of the administrative module (AM) be verified.

Format 1 is used to verify a single file or a list of files.

Format 2 is used to verify all essential files within a database partition.

2. FORMAT

[1]  VFY:FILE: ({FN="a b" | FLIST="c" [, DELTA]} [, MP="d" [, OLMP="e" ] [, DN=f, OFLPN=g ] ] [, GEN|, PRINT]);


3. EXPLANATION OF MESSAGE

a = A string containing the full path to the essential file

b = A string of 1 to 3 characters that indicates the type of checking to be performed. The first letter must be 'i', 'g', or 'n'. The letter 'i' or 'g' indicates that the cyclic redundancy check (CRC) information is stored internally or globally. The letter 'n' that CRC information is not to be checked. If CRC information is not to be checked, then at least one additional character must appear in the string.

The first letter may be followed by the letter 'X'. If 'X' appears, then the file is checked for execution permission by the owner.

The last letter (either second or third), if specified, indicates that the file type to be checked. Valid value(s):

- = Regular.
1 = Contiguous.
2 = Multi-extent.
B = Block special.
C = Character special.
I = IOP special.
R = Record special.
D = Director.
P = Pipe.

The checks for executable by owner and file type are optional as long as CRC checking is specified. If CRC checking is inhibited, then at least one of the optional checks must be specified.

c = The full pathname of a specification file containing entries in the format of variables 'a' and 'b'.

d = The full pathname of the directory where the database partition is mounted or where the off-line
partition is to be mounted; default is "/".

e
= The corresponding on-line mount point of the file system containing the files being verified. For a non-root file system, if the file names stored in /.crcvalues were stored relative to "/" (for example, no MP option was used when the CRC was generated and stored), then the on-line mount point (OLMP) option must be used when verifying the contents of a copy of this file which resides on an off-line partition.

f
= The number of the off-line disk which contains the files to be verified. Legal values are 0 to 31. The default is to use the on-line disks.

g
= The number of the off-line disk partition to be verified. Legal values are 0 to 63. The default is to use on-line disk partitions.

h
= A two-character string indicating the pack name of the SG database partition to be verified. This value is the same as the pack_name field in the fs record for the database partition. Default is "rt."

i
= The pack number which corresponds to the pack_number field in the fs record for the database partition being verified. Legal values are 0 to 32767; default is 0.

j
= The SG database partition number of the SG database partition corresponding to the par_number in the partition's fs record. Legal values are 0 to 63; default is 5.

The DELTA keyword provides the following service: If VFY:FILE is using the FLIST keyword and finds a file name in the specification file with the checking option "g," but that file is not found in the global crcvalue file, then VFY:FILE will generate an entry for that file in the global crcvalue file.

The GEN keyword will cause VFY:FILE to generate and store CRC information for the file or list of files provided. GEN and DELTA make the assumption that the contents of each the files is correct before VFY:FILE is run and should be used only with extreme caution. The PRINT option causes VFY:FILE to print the CRC information which it calculates for each essential file specified. No actual verification of the CRC information takes place. The PRINT and GEN options may not be used together. The option to inhibit CRC checking should not be used unless checking CRC information for the specified file is not appropriate. Do not view this option as a fast way to verify essential files.

4. SYSTEM RESPONSE

PF
= Printout follows. Followed by a VFY:FILE output message.

5. REFERENCES

Input Message(s):

VFY:FILE

Other Manual(s):
235-105-250 System Recovery
235-600-305 ECD/SG
VFY:MHD

**Software Release:** 5E14 and later  
**Command Group:** AM  
**Application:** 5,3B  
**Type:** Input  

**WARNING:** INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. **PURPOSE**

Reads all or specific disk tracks/blocks and verifies the header and error-correction code of each sector of the tracks/blocks read. The error-correction code is read to verify the correctability of the data in each sector.

For storage module drive (SMD) disk drives, the header contains the cylinder, track, and sector identification numbers, and should match the SMD disk file controller (DFC) internal head position data. For small computer system interface (SCSI) disk drives, the error-correction code is read to verify the correctability of the data in each disk block. The moving head disk (MHD) does not have to be in the active state for this input message to work.

Note: It may take several minutes to verify a complete disk. For SMD DFC, this request may fail to complete if it is input while another MHD related request is active on the same DFC. If this happens, repeat the request after the other input message completes. For SCSI DFC, a maximum of two "verify" requests are possible for different MHDs on the same DFC.

**WARNING:** This message should not be executed when either the AM or CM REX are running. Executing this message at those times can result in call processing problems.

2. **FORMAT**

    [1] VFY:MHD=a [,TRACK=b[&c]];  
    [2] VFY:MHD=a [,BLOCK=b[&c]];  

3. **EXPLANATION OF MESSAGE**

    a = Member number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.  
    b = There are two different formats depending on the type of MHD (SMD or SCSI). Valid value(s):  
        - Track(s) of the SMD MHD to be verified, in decimal notation. May be the first track of a range (0-17604).  
        - Block(s) of the SCSI MHD to be verified, in decimal notation. May be the first block of a range (0-2147483646).  
    c = The last track/block of a range of tracks (0-17064 or 0-2147483646).

4. **SYSTEM RESPONSE**

    PF = Printout follows. Followed by VFY:MHD output message.
5. REFERENCES

Input Message(s):

INIT:MHD

Output Message(s):

VFY:MHD

Other Manual(s):
235-105-110 System Maintenance Requirements and Tools
235-105-210 Routine Operations and Maintenance
235-105-220 Corrective Maintenance

MCC Display Page(s):

123 (DISK FILE SYSTEM ACCESS)
VFY:MLHG

Software Release: 5E14 and later
Command Group: RCV
Application: 5
Type: Input

1. PURPOSE

Requests a report to verify all the members of a multi-line hunt group (MLHG). The report quickly provides information on all members of a particular MLHG. The message is useful for trouble shooting MLHG data.

2. FORMAT

VFY:MLHG, GROUP=a [,DEVICE="b"] [,REPORT=c];

3. EXPLANATION OF MESSAGE

a = Multi-line hunt group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

b = Destination device or file for the report. The device or file name is input as a character string and must be inclosed with double quotation marks. If the input string is prefixed by a slash (/), the destination will be taken as the name of a file. The length of the file name must not exceed thirty (30) characters. The default destination is the name of the default tty device obtained from the environment variable LCHAN.

c = Type of report. Valid value(s):
    G = Report group.
    M = Report member.
    B = Report both group and member.

4. SYSTEM RESPONSE

NG = No good. An invalid argument in the input message was given or the default output device could not be determined.

PF = Printout follows. Followed by the report on the specified destination device/file.

RL = Retry later. The VFY:MLHG process was not able to allocate temporary file resources.

5. REFERENCES

None
1. PURPOSE

Requests verification of office routing translations, used in call processing, from the originating line or trunk to the terminating line or trunk.

This input message supports routing for voice calls. This includes intra- and inter-office calls. This input message examines routing of voice calls including automatic route selection (ARS) voice calls. For Format 1, this message supports verification of switch number portability (NP) routing information and recognition of LRNs in routing tables. This format also supports verification of provisioned routing information for long distance platform (LDP).

For Format 2, this message supports routing for circuit-switched data (CSD), except for certain features like automatic route selection (ARS). This includes intra- and inter-office CSD calls. This input message also supports verification of switch number portability (NP) routing information and recognition of LRNs in routing tables. This format also supports verification of provisioned routing information for long distance platform (LDP), with the ability to verify wideband data rates for LDP calls.

For Format 3, this input supports routing for packet-switched data (PSD) calls. This includes intra- and inter-office PSD calls.

2. FORMAT

[1] VFY:OFC,[CSV],{DN=a|TG=b[-c]|MLHG=d-e|PORI=f-g}[,DIG=h]
   [,LRN=1|PORTEDDN=m|NONPORTED][,ANI=n][,II=o|OLI=p]
   [,CALLTYPE=q][,CIC=r][,TNS=s-t][,CC=u][,SAT][,TNSC=v]
   [,PRESUBSC];

[2] VFY:OFC,CSD,{DN=a|TG=b[-c]|MLHG=d-e},{DATARATE=w|WBRATE=x|
   WBCHANNEL=y}[,DIG=h][,LRN=1|PORTEDDN=m|NONPORTED][,ANI=n]
   [,II=o|OLI=p][,CALLTYPE=q][,CIC=r][,TNS=s-t][,CC=u][,SAT]
   [,TNSC=v][,PRESUBSC];

   [,RPOA=i][,ICPI=j][,PSN=k][,DIG=h];

3. EXPLANATION OF MESSAGE

<table>
<thead>
<tr>
<th>Symbol</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>a</td>
<td>Directory number (DN) of the line whose translations are to be verified.</td>
</tr>
<tr>
<td>b</td>
<td>Trunk group number of the trunk whose translations are to be verified. This field may be used to enter a Bearer Independent Call Control (BICC) Trunk group. If a Service Trunk group is entered, an error will be returned.</td>
</tr>
<tr>
<td>c</td>
<td>Optional member number of the trunk group whose translations are to be verified. If not specified, the first assigned member is used. The member value cannot be entered if the trunk group specified is a BICC trunk group. The base CIC is used to process all BICC requests.</td>
</tr>
<tr>
<td>d</td>
<td>Group number of the multi-line hunt group line whose translations are to be verified.</td>
</tr>
<tr>
<td>e</td>
<td>Member number of the multi-line hunt group line whose translations are to be verified.</td>
</tr>
</tbody>
</table>
f = Module number (key to RLPORTLA) of the port whose translations are to be verified.

g = Port name (key to RLPORTLA) of the port whose translations are to be verified.

h = Optional address digits of call to be verified. This field should contain the LRN when PORTEDDN is also entered. Must be specified unless the call is from a manual or direct connect line, trunk or unless a packet switch number (PSN) is input for Packet. The special characters "#" and "*" may be included along with numeric digits by surrounding the entire field with double quotation marks. If no special characters are entered, then the quotation marks are optional.

It is a general rule-of-thumb that whenever there is timing in a digit sequence that the customer can end by dialing a #, then that # must be included in the input digit string. This is normally the case with ambiguous or conflict sequences.

For example, in the case of using an IDP and dialing an escape to POTS dial code followed by ODP dial code (which starts with a # sign) and possibly more digits, a # sign needs to be inserted in the digit string between the escape to POTS code and the dial code. The customer dialing the following sequence 9 (action DPOTSA defined in IDP), #8 (ARSUSE code defined in ODP) and 5610000 (a DN) would enter this digit string in the input message as dig="9##85610000".

This is because this input message works off the digit string and cannot do critical interdigit timing as is done when the digits are being collected from a user. Entering the digit string above as "9#85610000" would result in the # being read as end of critical interdigit timing and the ODP would be left to incorrectly interpret the digits 85610000.

For LDP calls, the value of this field depends on the CALLTYPE input field (variable q). Please refer the tables under the explanation of CALLTYPE input field for valid values.

i = Optional Registered Private Operating Agency, a four-digit Data Network Interexchange Carrier (DNIC) used with packet routing.

j = Optional Interexchange Carrier Preselect Indication, a four-digit DNIC used with packet routing.

k = Optional Packet Switch Number, a number between 1 and 255, inclusive, used in Internal Protocol Packet routing as the destination of the call.

l = Optional ten digit Location Routing Number.

m = Ported DN, generic address parameter (SS7 ISUP). Variable h contains the LRN. This overrides the LNP query. No LNP query will be done when LRN is entered.

n = Optional automatic number identification (ANI). ANI is a required field for LDP LATA trunks.

Valid value(s):
10 digit NPA-NXX-XXXX
3 digit NPA
NULL = The NULL value shall be valid only when DIG=950-XXXX for CALLTYPE=FGB or FGBPS.

o = Optional ANI information digits (II) for a MF trunk. Valid value(s):
00 = Identified line with no special treatment.
01 = Operator number identified (multiparty).
02 = ANI failure.
06 = Hotel without room identification.
07 = Coinless, hospital, or inmate call.
08 = Interlata restricted.
10 = Test call.
20 = Automatic input/output dialing (AIOD) listed directory number sent.
23 = Identified line (coin or noncoin).
24 = Translated 800 call.
27 = Coin line.
34 = Operator handled.
52 = Outbound wide area transport (OUTWATS) line.
68 = Interlata restricted hotel line.
78 = Interlata restricted coinless line.
93 = Virtual private network line.
NULL = NULL input, valid only when DIG=950-XXXX for CALLTYPE=FGB or FGBPS calls.

The default value for this field is 00.

p
= Optional originating line information (OLI) for a CCS7 trunk. Valid value(s):
    IDLINE = Identified line with no special treatment.
    01 = Operator number identified (multiparty).
    02 = ANI failure.
    06 = Hotel without room identification.
    07 = Coinless, hospital, or inmate call.
    08 = Interlata restricted.
    10 = Test call.
    20 = Automatic input/output dialing (AIOD) listed directory number sent.
    23 = Identified line (coin or noncoin).
    24 = Translated 800 call.
    27 = Coin line.
    34 = Operator handled.
    52 = Outbound wide area transport (OUTWATS) line.
    68 = Interlata restricted hotel line.
    78 = Interlata restricted coinless line.
    93 = Virtual private network line.
    NULL = NULL input, valid only when DIG=950-XXXX for CALLTYPE=FGB or FGBPS calls.

The default value for this field is IDLINE.

q
= Optional calltype prefix of the dialed number. This also corresponds to the nature of number value for CCS7 signaling. Valid value(s):
    1P = World zone 1, non-operator.
    0P = World zone 1, zero plus.
    011 = International, non-operator.
    01P = International 01 plus (dialed as 01+CC+NN).
    01M = International 01 minus.
    DOM = Domestic (United States).
    FGB = FGB (950-xxxx) calls from transition EAEO/AT.
    FGBPS = FGB (950-xxxx) calls from public station during and after the transition.
    FGDCT = Feature group D cutthrough calls.
The default value for this field is DOM.

If calltype is 011, 01P, 1P or 0P only the national number digits have to be entered on the DIG field on input. No prefixes should be present on the DIG= field. The software will add appropriate prefixes based on CALLTYPE. The software will also add the country code from input command for international calls.

If CALLTYPE is 01M, DIG= and CC= should not be entered on input. Software will analyze this as an international operator call based on CALLTYPE.

If CALLTYPE is DOM, user has to enter the actual digit string to be analyzed along with necessary prefixes. For example, if the user wants a DOMESTIC operator call, the digit string must have a 0 prefix on the DIG= field.

Table 1: Mapping of CALLTYPE to CCS7 Nature of Address/Switch Prefixing

The following table describes relationship between certain input parameter combinations and how the switch processes them for ISUP signaling.

Fields CALLTYPE, DIG, CC, TNS are VFY:OFC input fields.

CCS7 nature of address is the nature of address assigned to the call based on these inputs.

Switch prefix is the prefix that the switch adds to the called party number based on these inputs.

<table>
<thead>
<tr>
<th>CALLTYPE</th>
<th>DIG (to be input)</th>
<th>CC (to be input)</th>
<th>TNS (to be input)</th>
<th>CCS7 Nature of address</th>
<th>Switch Prefix</th>
</tr>
</thead>
<tbody>
<tr>
<td>011</td>
<td>National number</td>
<td>Required</td>
<td>Required</td>
<td>International number</td>
<td>011</td>
</tr>
<tr>
<td>01P</td>
<td>National number</td>
<td>Required</td>
<td>Required</td>
<td>International number, operator requested</td>
<td>01</td>
</tr>
<tr>
<td>01M</td>
<td>No digits</td>
<td>Not required</td>
<td>Required</td>
<td>No number present, operator requested</td>
<td>0</td>
</tr>
<tr>
<td>1P</td>
<td>National number</td>
<td>Not required</td>
<td>Required</td>
<td>National (significant) Number</td>
<td>NONE</td>
</tr>
<tr>
<td>0P</td>
<td>National number</td>
<td>Not required</td>
<td>Required</td>
<td>National number, operator requested</td>
<td>0</td>
</tr>
<tr>
<td>DOM</td>
<td>Switch does not prefix any digits</td>
<td>Not required</td>
<td>Not required</td>
<td>National (significant) Number</td>
<td>NONE</td>
</tr>
<tr>
<td>FGB, FGBPS</td>
<td>950xxxx</td>
<td>Not required</td>
<td>Not required</td>
<td>950+ type calls</td>
<td>NONE</td>
</tr>
<tr>
<td>FGDCT</td>
<td>Not required</td>
<td>Not required</td>
<td>Not required</td>
<td>Cutthru to carrier</td>
<td>NONE</td>
</tr>
</tbody>
</table>

Table 2: Mapping of CALLTYPE to switch prefix for MF signaling

The following table describes relationship between certain input parameter combinations and how the switch processes them for MF signaling.

Fields CALLTYPE, DIG, CC, CIC are VFY:OFC input fields.
Switch prefix is the prefix that the switch adds to the called party number based on these inputs.

<table>
<thead>
<tr>
<th>CALLTYPE</th>
<th>DIG (to be input)</th>
<th>CC (to be input)</th>
<th>CIC (to be input)</th>
<th>Switch prefix</th>
</tr>
</thead>
<tbody>
<tr>
<td>011</td>
<td>National number</td>
<td>Required</td>
<td>Required</td>
<td>011</td>
</tr>
<tr>
<td>01P</td>
<td>National number</td>
<td>Required</td>
<td>Required</td>
<td>01</td>
</tr>
<tr>
<td>01M</td>
<td>No digits</td>
<td>Not required</td>
<td>Required</td>
<td>Prefix 0 to</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>“KP-0-ST” to</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>become</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>“KP-00-ST”</td>
</tr>
<tr>
<td>1P</td>
<td>National number</td>
<td>Not required</td>
<td>Required</td>
<td>NONE</td>
</tr>
<tr>
<td>0P</td>
<td>National number</td>
<td>Not required</td>
<td>Required</td>
<td>NONE</td>
</tr>
<tr>
<td>DOM</td>
<td>Switch does not</td>
<td>Not required</td>
<td>Not required</td>
<td>NONE</td>
</tr>
<tr>
<td></td>
<td>prefix any digits</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Actual digit string to be analyzed has to be input</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>FGB, FGBPS</td>
<td>9500000 or Blank</td>
<td>Not required</td>
<td>Not required</td>
<td>NONE</td>
</tr>
<tr>
<td>FGDCT</td>
<td>Not required</td>
<td>Not required</td>
<td>Not required</td>
<td>NONE</td>
</tr>
</tbody>
</table>

\r = Optional carrier identification code (CIC). CIC can be 3 digit(0-999) or 4 digit(0-9999).

\s = Optional circuit code for transit network selector (TNS). Valid values are in the range 0-15. For incoming MINT trunk, any value specified for TNS is ignored.

\t = Optional carrier code for transit network selector (TNS). Valid carrier code can be 3 digit(0-999) or 4 digit(0-9999). For incoming MINT trunk, any value specified for TNS is ignored.

\u = Optional 3 digit(0-999) country code for the called number.

\v = Optional terminating network selection code (TNSC), relevant only for specified MINT trunks. Valid values are in the range 0-999. Default value is 1.

\w = Narrowband data rate for CSD calls. Valid value(s):

56 = 56-kbps, unrestricted digital information, circuit-mode, rate adapted from 56-kbps.
64 = 64-kbps, unrestricted digital information, circuit-mode.
R64 = 64-kbps, restricted digital information, circuit-mode, rate adapted from 56-kbps.

\x = Wideband data rate for CSD calls. Valid value(s):

384 = 384 kbps.
384_1536 = 384 or 1536 kbps.
1536 = 1536 kbps.

\y = Wideband data rate channel for CSD calls. Wideband channel specifies the number of DS0s requested for the call. The number of DS0s is the information transfer rate multiplier value. This field will always be included for “multi-rate” calls. Valid values for this field are between 2 and 24.

NONPORTED = Presence of this key indicates that dig= value is known to be nonported.

PRESUBSC = Optional keyword to indicate if the calling party is presubscribed to the carrier associated with this call.

SAT = Optional keyword to indicate if the call has been routed via satellite. For SS7, SAT keyword is valid for all trunks. For MF, SAT keyword can only be used for MINT trunks.
4. SYSTEM RESPONSE

NG

= No good. May also include:
- ANI PARAMETER MUST BE 3 or 10 DIGITS OR ENTERED AS NULL
- ANI PARAMETER CANNOT BE ENTERED WITH DN OR MLHG
- ANI PARAMETER MUST BE NULL or DIGITS
- ANI PARAMETER NOT SUPPORTED - BASIC LDP FEATURE IS NOT ACTIVE
- CALLTYPE IS NOT FGB/FGBPS, ANI, OLI OR II CANNOT BE ENTERED
- CALLTYPE PARAMETER CANNOT BE ENTERED WITH DN OR MLHG
- CALLTYPE PARAMETER NOT SUPPORTED - BASIC LDP FEATURE IS NOT ACTIVE
- CALLTYPE PARAMETER NOT SUPPORTED - VERIFY OFFICE FOR LDP IS NOT ACTIVE
- CALLTYPE SHOULD BE FGB/FGBPS FOR DIG=950-XXXX
- CANNOT SPECIFY LRN DIGITS WITHOUT A DIG PARAMETER
- CANNOT SPECIFY PORTEDDN OR NONPORTED WITHOUT A DIG PARAMETER
- CC PARAMETER CANNOT BE ENTERED WHEN CALLTYPE=01M
- CC PARAMETER CANNOT BE ENTERED WITH DN OR MLHG
- CC PARAMETER NOT SUPPORTED - BASIC LDP FEATURE IS NOT ACTIVE
- CC PARAMETER NOT SUPPORTED - VERIFY OFFICE FOR LDP IS NOT ACTIVE
- CIC PARAMETER CANNOT BE ENTERED WITH DN OR MLHG
- CIC PARAMETER MUST BE DIGITS
- CIC PARAMETER NOT SUPPORTED - BASIC LDP FEATURE IS NOT ACTIVE
- CIC PARAMETER NOT SUPPORTED - VERIFY OFFICE FOR LDP IS NOT ACTIVE
- DIG CANNOT BE ENTERED WITH PSN
- DIG NOT ENTERED, CALLTYPE SHOULD BE FGB/FGBPS/FGDCT/01M
- DIG PARAMETER CANNOT BE ENTERED FOR CALLTYPE=FGDCT/01M
- FOR FGB CALLS, DIG MUST BE 950-XXXX OR NOT ENTERED
- FOR FGB CALLS, WHEN ANI=NULL THEN II=NULL HAS TO BE ENTERED
- FOR FGB CALLS, WHEN ANI=NULL THEN OLI=NULL HAS TO BE ENTERED
- FOR FGB CALLS, WHEN OLI=NULL THEN ANI=NULL HAS TO BE ENTERED
- FOR FGB CALLS, WHEN II=NULL THEN ANI=NULL HAS TO BE ENTERED
- II PARAMETER CANNOT BE ENTERED WITH DN OR MLHG
- II PARAMETER CANNOT BE ENTERED WHEN CALLTYPE=01M
- II PARAMETER NOT SUPPORTED - BASIC LDP FEATURE IS NOT ACTIVE
- II PARAMETER NOT SUPPORTED - VERIFY OFFICE FOR LDP IS NOT ACTIVE
- LRN PARAMETER NOT SUPPORTED - TEST QUERY FOR LRN FEATURE NOT PURCHASED
- LRN PARAMETER MUST BE 10 DIGITS
- NON-NUMBER DIGIT = Address digits contain characters other than 0-9, #, and *. These two
  special characters should be in quoted strings.
- NONPORTED KEYWORD NOT SUPPORTED - NP VERIFY OFFICE FOR LRNS NOT
  PURCHASED
- NULL ANI VALUE CAN ONLY BE USED FOR FGB CALLS = ANI=NULL, OLI/II=NULL can be
  entered only when CALLTYPE=FGB/FGBPS.
- OLI PARAMETER CANNOT BE ENTERED WITH DN OR MLHG
- OLI PARAMETER NOT SUPPORTED - BASIC LDP FEATURE IS NOT ACTIVE
- OLI PARAMETER NOT SUPPORTED - VERIFY OFFICE FOR LDP IS NOT ACTIVE
- ONLY SS7 TRUNK ORIGINATIONS CAN SPECIFY PORTEDDN PARAMETER
- PORTEDDN PARAMETER NOT SUPPORTED - NP VERIFY OFFICE FOR LRNS NOT
  PURCHASED
- PORTEDDN PARAMETER MUST BE 10 DIGITS
- PRESUBSC PARAMETER CANNOT BE ENTERED WITH DN OR MLHG
- PRESUBSC PARAMETER NOT SUPPORTED - BASIC LDP FEATURE IS NOT ACTIVE
- PRESUBSC PARAMETER NOT SUPPORTED - VERIFY OFFICE FOR LDP IS NOT ACTIVE
- PSN CANNOT BE ENTERED WITH RPOA OR ICPI
- RPOA/ICPI MUST BE FOUR DIGIT BCD
- SAT PARAMETER CANNOT BE ENTERED WITH DN OR MLHG
- SAT PARAMETER NOT SUPPORTED - BASIC LDP IS NOT ACTIVE
- SAT PARAMETER NOT SUPPORTED - VERIFY OFFICE FOR LDP IS NOT ACTIVE
- SYSTEM ERROR = No terminal process could be created in the administrative module (AM). This is probably a temporary condition. If this happens repeatedly, refer to the TECHNICAL ASSISTANCE portion of the INTRODUCTION section of the Input Messages manual.
- TG CANNOT BE ENTERED WITH DN OR MLHG = The only valid origination combinations for packet (PKT) are DN, MLHG, DN and MLHG, or TG.
- TNS PARAMETER CANNOT BE ENTERED WITH DN OR MLHG
- TNS PARAMETER MUST BE DIGITS = The circuit code and carrier ID in TNS parameter must contain digits only.
- TNS PARAMETER NOT SUPPORTED - BASIC LDP FEATURE IS NOT ACTIVE
- TNS PARAMETER NOT SUPPORTED - VERIFY OFFICE FOR LDP IS NOT ACTIVE
- TNSC PARAMETER CANNOT BE ENTERED WITH DN OR MLHG
- TNSC PARAMETER NOT SUPPORTED - BASIC LDP FEATURE IS NOT ACTIVE
- WBCHANNEL PARAMETER CANNOT BE ENTERED WITH DN OR MLHG
- WBCHANNEL PARAMETER NOT SUPPORTED - BASIC LDP FEATURE IS NOT ACTIVE
- WBRATE PARAMETER CANNOT BE ENTERED WITH DN OR MLHG
- WBRATE PARAMETER NOT SUPPORTED - BASIC LDP FEATURE IS NOT ACTIVE
- WBRATE PARAMETER NOT SUPPORTED - VERIFY OFFICE FOR LDP IS NOT ACTIVE
- WBRATE PARAMETER NOT SUPPORTED - VERIFY OFFICE FOR LDP IS NOT ACTIVE

PF = Printout follows. Followed by the appropriate output message. May also include:
- EVENT n = Request (identified by the number n) has been accepted and is being processed. The VFY:OFC output message may contain multiple segments. Each segment will contain this event number.

RL = Retry later. May also include:
- NO STACK SPACE = No stack space is available in the AM. This is probably a temporary condition. If this happens repeatedly, refer to the TECHNICAL ASSISTANCE portion of the INTRODUCTION section of the Input Messages manual.
- NO SYSTEM RESOURCE = No process control blocks (PCBs) in the AM are available. This is probably a temporary condition. If this happens repeatedly, refer to the TECHNICAL ASSISTANCE portion of the INTRODUCTION section of the Input Messages manual.
- UNABLE TO SEND MSG = The AM is unable to send messages. This is probably a temporary condition. If this happens repeatedly, refer to the TECHNICAL ASSISTANCE portion of the INTRODUCTION section of the Input Messages manual.
- VERIFY IN PROGRESS = Another office verification is currently in progress. Only one verification can be done at a time.

5. REFERENCES

Output Message(s):
VFY: OFC

Other Manual(s):

Where 'x' is the release-specific version of the document.

- 235-118-21x Recent Change Menu Mode Text Interface
- 235-118-24x Recent Change Procedures
- 235-118-24x Recent Change Reference
- 235-600-11x Translations Data
- 235-200-110 Long Distance Platform
VFY:OFC-B

Software Release: 5E16(2) and later
Command Group: MAINT
Application: 5
Type: Input

1. PURPOSE

Requests verification of office routing translations, used in call processing, from the originating line or trunk to the terminating line or trunk.

This input message supports routing for voice calls. This includes intra- and inter-office calls. This input message examines routing of voice calls including automatic route selection (ARS) voice calls.

For Format 1, this message supports verification of switch number portability (NP) routing information and recognition of LRNs in routing tables. This format also supports verification of provisioned routing information for long distance platform (LDP).

For Format 2, this message supports routing for circuit-switched data (CSD), except for certain features like automatic route selection (ARS). This includes intra- and inter-office CSD calls. This input message also supports verification of switch number portability (NP) routing information and recognition of LRNs in routing tables. This format also supports verification of provisioned routing information for long distance platform (LDP), with the ability to verify wideband data rates for LDP calls.

For Format 3, this input supports routing for packet-switched data (PSD) calls. This includes intra- and inter-office PSD calls.

2. FORMAT

. . .[,LRN=i|PORTEDDN=j|NONPORTED],[ANI=k] [,II=1|OLI=m]. . .
. . .[,PRESUBSC];
________________________________________________________

. . .,WBCHANNEL=v}[,DIG=h] [,LRN=i|PORTEDDN=j|NONPORTED],[ANI=k]. . .
. . .[,TNSC=s] [,PRESUBSC];
________________________________________________________

. . .[,RPOA=w] [,ICPI=x] [,PSN=y] [,DIG=h];
________________________________________________________

3. EXPLANATION OF MESSAGE

NONPORTED = Presence of this key indicates that dig= value is known to be nonported.

PRESUBSC = Optional keyword to indicate if the calling party is presubscribed to the carrier associated with this call.

SAT = Optional keyword to indicate if the call has been routed using satellite. For SS7, SAT keyword is valid for all trunks. For MF, SAT keyword can only be used for MINT trunks.
= Directory number (DN) of the line whose translations are to be verified.

b = Trunk group number of the trunk whose translations are to be verified. This field may be used to enter a bearer independent call control (BICC) trunk group. If a service trunk group is entered, an error will be returned.

c = Optional member number of the trunk group whose translations are to be verified. If not specified, the first assigned member is used. The member value cannot be entered if the trunk group specified is a BICC trunk group. The base CIC is used to process all BICC requests.

d = Group number of the multi-line hunt group line whose translations are to be verified.

e = Member number of the multi-line hunt group line whose translations are to be verified.

f = Module number (key to RLPORTLA) of the port whose translations are to be verified.

g = Port name (key to RLPORTLA) of the port whose translations are to be verified.

h = Optional address digits of call to be verified. This field should contain the LRN when PORTEDDN is also entered. Must be specified unless the call is from a manual or direct connect line, trunk or unless a packet switch number (PSN) is input for packet. The special characters "#" and "**" may be included along with numeric digits by surrounding the entire field with double quotation marks. If no special characters are entered, then the quotation marks are optional.

It is a general rule-of-thumb that whenever there is timing in a digit sequence that the customer can end by dialing a #, then that # must be included in the input digit string. This is normally the case with ambiguous or conflict sequences.

For example, in the case of using an IDP and dialing an escape to POTS dial code followed by ODP dial code (which starts with a # sign) and possibly more digits, a # sign needs to be inserted in the digit string between the escape to POTS code and the dial code. The customer dialing the following sequence 9 (action DPOTSA defined in IDP), #8 (ARSUSE code defined in ODP) and 5610000 (a DN) would enter this digit string in the input message as dig="9##85610000".

This is because this input message works off the digit string and cannot do critical interdigit timing as is done when the digits are being collected from a user. Entering the digit string above as "9#85610000" would result in the # being read as end of critical interdigit timing and the ODP would be left to incorrectly interpret the digits 85610000.

For LDP calls, the value of this field depends on the CALLTYPE input field (variable ‘o’). Please refer the tables under the explanation of CALLTYPE input field for valid values.

i = Optional ten digit location routing number.

j = Ported DN, generic address parameter (SS7 ISUP). Variable ‘h’ contains the LRN. This overrides the LNP query. No LNP query will be done when LRN is entered.

k = Optional automatic number identification (ANI). ANI is a required field for LDP LATA trunks. Valid value(s):

10 digit NPA-NXX-XXXX
3 digit NPA
NULL

The NULL value shall be valid only when DIG=950-XXXX for CALLTYPE=FGB or FGBPS.
l
= Optional ANI information digits (II) for a MF trunk. Valid value(s):
00 = Identified line with no special treatment.
01 = Operator number identified (multiparty).
02 = ANI failure.
06 = Hotel without room identification.
07 = Coinless, hospital, or inmate call.
08 = Interlata restricted.
10 = Test call.
20 = Automatic input/output dialing (AIOD) listed directory number sent.
23 = Identified line (coin or noncoin).
24 = Translated 800 call.
27 = Coin line.
34 = Operator handled.
52 = Outbound wide area transport (OUTWATS) line.
68 = Interlata restricted hotel line.
78 = Interlata restricted coinless line.
93 = Virtual private network line.
NULL = NULL input, valid only when DIG=950-XXXX for CALLTYPE=FGB or FGBPS calls.

The default value for this field is 00.

m
= Optional originating line information (OLI) for a CCS7 trunk. Valid value(s):
IDLINE = Identified line with no special treatment.
01 = Operator number identified (multiparty).
02 = ANI failure.
06 = Hotel without room identification.
07 = Coinless, hospital, or inmate call.
08 = Interlata restricted.
10 = Test call.
20 = Automatic input/output dialing (AIOD) listed directory number sent.
23 = Identified line (coin or noncoin).
24 = Translated 800 call.
27 = Coin line.
34 = Operator handled.
52 = Outbound wide area transport (OUTWATS) line.
68 = Interlata restricted hotel line.
78 = Interlata restricted coinless line.
93 = Virtual private network line.
NULL = NULL input, valid only when DIG=950-XXXX for CALLTYPE=FGB or FGBPS calls.

The default value for this field is IDLINE.

n
= Optional calltype prefix of the dialed number. This also corresponds to the nature of number value
for CCS7 signaling except for APN. If APN, it corresponds to either the nature of number value for
CCS7 signaling or to the called party number information element type of number and numbering
plan identification values for Q.931 signaling. Valid value(s):
1P = World zone 1, non-operator.
0P = World zone 1, zero plus.
011 = International, non-operator.
01P = International 01 plus (dialed as 01+CC+NN).
01M = International 01 minus.
DOM = Domestic (United States).
FGB = FGB (950-xxxx) calls from transition EAO/AT.
FGBPS = FGB (950-xxxx) calls from public station during and after the transition.
FGDCT = Feature group D cutthrough calls.
APN = Action point numbers.

The default value for this field is DOM.

If calltype is 011, 01P, 1P or 0P only the national number digits have to be entered on the DIG field on input. No prefixes should be present on the DIG= field. The software will add appropriate prefixes based on CALLTYPE. The software will also add the country code from input command for international calls.

If CALLTYPE is 01M, DIG= and CC= should not be entered on input. Software will analyze this as an international operator call based on CALLTYPE.

If CALLTYPE is DOM, user has to enter the actual digit string to be analyzed along with necessary prefixes. For example, if the user wants a DOMESTIC operator call, the digit string must have a 0 prefix on the DIG= field.

If CALLTYPE is APN, user has to enter the private digit string to be analyzed. This value only applies on an edge switch for CCS7 TTOLL and IC trunks and for Service Node EDSL trunks. The following tables do not apply when CALLTYPE is APN.

### Mapping of CALLTYPE to CCS7 Nature of Address/Switch Prefixing

This table describes relationship between certain input parameter combinations and how the switch processes them for ISUP signaling.

Fields CALLTYPE, DIG, CC, TNS are VFY:OFC input fields.

CCS7 nature of address is the nature of address assigned to the call based on these inputs.

Switch prefix is the prefix that the switch adds to the called party number based on these inputs.

<table>
<thead>
<tr>
<th>CALLTYPE</th>
<th>DIG (to be input)</th>
<th>CC (to be input)</th>
<th>TNS (to be input)</th>
<th>CCS7 Nature of address</th>
<th>Switch prefix</th>
</tr>
</thead>
<tbody>
<tr>
<td>011</td>
<td>National number</td>
<td>Required</td>
<td>Required</td>
<td>International number</td>
<td>011</td>
</tr>
<tr>
<td>01P</td>
<td>National number</td>
<td>Required</td>
<td>Required</td>
<td>International number, operator requested</td>
<td>01</td>
</tr>
<tr>
<td>01M</td>
<td>No digits</td>
<td>Not required</td>
<td>Required</td>
<td>No number present, operator requested</td>
<td>00</td>
</tr>
<tr>
<td>1P</td>
<td>National number</td>
<td>Not required</td>
<td>Required</td>
<td>National (significant) Number</td>
<td>NONE</td>
</tr>
<tr>
<td>0P</td>
<td>National number</td>
<td>Not required</td>
<td>Required</td>
<td>National number, operator requested</td>
<td>0</td>
</tr>
<tr>
<td>DOM</td>
<td>Actual digit string to be analyzed</td>
<td>Not required</td>
<td>Not required</td>
<td>National (significant) Number</td>
<td>NONE</td>
</tr>
</tbody>
</table>
Mapping of CALLTYPE to switch prefix for MF signaling

This table describes relationship between certain input parameter combinations and how the switch processes them for MF signaling.

Fields CALLTYPE, DIG, CC, CIC are VFY:OFC input fields.

Switch prefix is the prefix that the switch adds to the called party number based on these inputs.

<table>
<thead>
<tr>
<th>CALLTYPE</th>
<th>DIG (to be input)</th>
<th>CC (to be input)</th>
<th>CIC (to be input)</th>
<th>Switch prefix</th>
</tr>
</thead>
<tbody>
<tr>
<td>01T</td>
<td>National number</td>
<td>Required</td>
<td>Required</td>
<td>01T</td>
</tr>
<tr>
<td>01P</td>
<td>National number</td>
<td>Required</td>
<td>Required</td>
<td>01</td>
</tr>
<tr>
<td>01M</td>
<td>No digits</td>
<td>Not required</td>
<td>Required</td>
<td>Prefix 0 to KP-0ST to become &quot;KP-00-ST&quot;</td>
</tr>
<tr>
<td>1P</td>
<td>National number</td>
<td>Not required</td>
<td>Required</td>
<td>NONE</td>
</tr>
<tr>
<td>0P</td>
<td>National number</td>
<td>Not required</td>
<td>Required</td>
<td>NONE</td>
</tr>
<tr>
<td>DOM</td>
<td>Switch does not prefix any digits. Actual digit string to be analyzed has to be input.</td>
<td>Not required</td>
<td>Not required</td>
<td>NONE</td>
</tr>
<tr>
<td>FGB, FGBPS</td>
<td>9500000 or Blank</td>
<td>Not required</td>
<td>Not required</td>
<td>NONE</td>
</tr>
<tr>
<td>FGDCT</td>
<td>Not required</td>
<td>Not required</td>
<td>Not required</td>
<td>NONE</td>
</tr>
</tbody>
</table>

- **o**: Optional carrier identification code (CIC). CIC can be 3 digit (0-999) or 4 digit (0-9999).
- **p**: Optional circuit code for transit network selector (TNS). Valid values are in the range 0-15. For incoming MINT trunk, any value specified for TNS is ignored.
- **q**: Optional carrier code for transit network selector (TNS). Valid carrier code can be 3 digit (0-999) or 4 digit (0-9999). For incoming MINT trunk, any value specified for TNS is ignored.
- **r**: Optional 3 digit (0-999) country code for the called number.
- **s**: Optional terminating network selection code (TNSC), relevant only for specified MINT trunks. Valid values are in the range 0-999. Default value is 1.
- **t**: Narrowband data rate for CSD calls. Valid value(s):
  - 56 = 56-kbps, unrestricted digital information, circuit-mode, rate adapted from 56-kbps.
  - 64 = 64-kbps, unrestricted digital information, circuit-mode.
  - R64 = 64-kbps, restricted digital information, circuit-mode, rate adapted from 56-kbps.
- **u**: Wideband data rate for CSD calls. Valid value(s):
  - 384 = 384 kbps.
  - 384_1536 = 384 or 1536 kbps.
  - 1536 = 1536 kbps.
- **v**: Wideband data rate channel for CSD calls. Wideband channel specifies the number of DS0s requested for the call. The number of DS0s is the information transfer rate multiplier value. This field will always be included for "multi-rate" calls. Valid values for this field are between 2 and 24.
- **w**: Optional registered private operating agency, a four-digit data network interexchange carrier (DNIC) used with packet routing.
x = Optional interexchange carrier preselect indication, a four-digit DNIC used with packet routing.

y = Optional packet switch number, a number between 1 and 255, inclusive, used in internal protocol packet routing as the destination of the call.

4. SYSTEM RESPONSE

NG = No good. May also include:
- ANI PARAMETER MUST BE 3 or 10 DIGITS OR ENTERED AS NULL
- ANI PARAMETER CANNOT BE ENTERED WITH DN OR MLHG
- ANI PARAMETER MUST BE NULL or DIGITS
- ANI PARAMETER NOT SUPPORTED - BASIC LDP FEATURE IS NOT ACTIVE
- CALLTYPE=APN CANNOT BE ENTERED WITH DN OR MLHG
- CALLTYPE=APN NOT SUPPORTED - EDGE SWITCH FEATURE IS NOT ACTIVE
- CALLTYPE IS NOT FGB/FGBPS, ANI, OLI OR II CANNOT BE ENTERED
- CALLTYPE PARAMETER CANNOT BE ENTERED WITH DN OR MLHG
- CALLTYPE PARAMETER NOT SUPPORTED - BASIC LDP FEATURE IS NOT ACTIVE
- CALLTYPE PARAMETER NOT SUPPORTED - VERIFY OFFICE FOR LDP IS NOT ACTIVE
- CALLTYPE SHOULD BE FGB/FGBPS FOR DIG=950-XXXX
- CANNOT SPECIFY LRN DIGITS WITHOUT A DIG PARAMETER
- CANNOT SPECIFY PORTEDDN OR NONPORTED WITHOUT A DIG PARAMETER
- CIC PARAMETER CANNOT BE ENTERED WHEN CALLTYPE=01M
- CIC PARAMETER CANNOT BE ENTERED WITH DN OR MLHG
- CIC PARAMETER NOT SUPPORTED - BASIC LDP FEATURE IS NOT ACTIVE
- CIC PARAMETER NOT SUPPORTED - VERIFY OFFICE FOR LDP IS NOT ACTIVE
- DIG CANNOT BE ENTERED WITH PSN
- DIG NOT ENTERED, CALLTYPE SHOULD BE FGB/FGBPS/FGDCT/01M
- DIG PARAMETER CANNOT BE ENTERED FOR CALLTYPE=FGDCT/01M
- FOR FGB CALLS, DIG MUST BE 950-XXXX OR NOT ENTERED
- FOR FGB CALLS, WHEN ANI=NULL THEN II=NULL HAS TO BE ENTERED
- FOR FGB CALLS, WHEN ANI=NULL THEN OLI=NULL HAS TO BE ENTERED
- FOR FGB CALLS, WHEN II=NULL THEN ANI=NULL HAS TO BE ENTERED
- FOR FGB CALLS, WHEN OLI=NULL THEN ANI=NULL HAS TO BE ENTERED
- II PARAMETER CANNOT BE ENTERED WITH DN OR MLHG
- II PARAMETER NOT SUPPORTED - BASIC LDP FEATURE IS NOT ACTIVE
- II PARAMETER NOT SUPPORTED - VERIFY OFFICE FOR LDP IS NOT ACTIVE
- LRN PARAMETER NOT SUPPORTED - TEST QUERY FOR LRN FEATURE NOT PURCHASED
- LRN PARAMETER MUST BE 10 DIGITS
- ONLY SS7 TRUNK ORIGINATIONS CAN SPECIFY PORTEDDN PARAMETER
- PORTEDDN PARAMETER NOT SUPPORTED - NP VERIFY OFFICE FOR LRNS NOT PURCHASED

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- PORTEDDN PARAMETER MUST BE 10 DIGITS
- PRESUBSC PARAMETER CANNOT BE ENTERED WITH DN OR MLHG
- PRESUBSC PARAMETER NOT SUPPORTED - BASIC LDP FEATURE IS NOT ACTIVE
- PRESUBSC PARAMETER NOT SUPPORTED - VERIFY OFFICE FOR LDP IS NOT ACTIVE
- PSN CANNOT BE ENTERED WITH RPOA OR ICPI
- RPOA/ICPI MUST BE FOUR DIGIT BCD
- SAT PARAMETER CANNOT BE ENTERED WITH DN OR MLHG
- SAT PARAMETER NOT SUPPORTED - BASIC LDP IS NOT ACTIVE
- SAT PARAMETER NOT SUPPORTED - VERIFY OFFICE FOR LDP IS NOT ACTIVE
- TG CANNOT BE ENTERED WITH DN OR MLHG
- The only valid origination combinations for packet are DN, MLHG, DN and MLHG, or TG.
- TNS PARAMETER CANNOT BE ENTERED WITH DN OR MLHG
- TNS PARAMETER MUST BE DIGITS - The circuit code and carrier ID in TNS parameter must contain digits only.
- TNS PARAMETER NOT SUPPORTED - BASIC LDP FEATURE IS NOT ACTIVE
- TNS PARAMETER NOT SUPPORTED - VERIFY OFFICE FOR LDP IS NOT ACTIVE
- TNSC PARAMETER CANNOT BE ENTERED WITH DN OR MLHG
- TNSC PARAMETER NOT SUPPORTED - BASIC LDP FEATURE IS NOT ACTIVE
- TNSC PARAMETER NOT SUPPORTED - VERIFY OFFICE FOR LDP IS NOT ACTIVE
- WBCHANNEL PARAMETER CANNOT BE ENTERED WITH DN OR MLHG
- WBCHANNEL PARAMETER NOT SUPPORTED - BASIC LDP FEATURE IS NOT ACTIVE
- WBCHANNEL PARAMETER NOT SUPPORTED - VERIFY OFFICE FOR LDP IS NOT ACTIVE
- WBRATE PARAMETER CANNOT BE ENTERED WITH DN OR MLHG
- WBRATE PARAMETER NOT SUPPORTED - BASIC LDP FEATURE IS NOT ACTIVE
- WBRATE PARAMETER NOT SUPPORTED - VERIFY OFFICE FOR LDP IS NOT ACTIVE

PF
- Printout follows. Followed by the appropriate output message. May also include:
  - EVENT n = Request (identified by the number n) has been accepted and is being processed. The VFY:OFC output message may contain multiple segments. Each segment will contain this event number.

RL
- Retry later. May also include:
  - NO STACK SPACE = No stack space is available in the AM. This is probably a temporary condition. If this happens repeatedly, refer to the TECHNICAL ASSISTANCE portion of the INTRODUCTION section of the Input Messages manual.
  - NO SYSTEM RESOURCE = No process control blocks (PCBs) in the AM are available. This is probably a temporary condition. If this happens repeatedly, refer to the TECHNICAL ASSISTANCE portion of the INTRODUCTION section of the Input Messages manual.
  - UNABLE TO SEND MSG = The AM is unable to send messages. This is probably a temporary condition. If this happens repeatedly, refer to the TECHNICAL ASSISTANCE portion of the INTRODUCTION section of the Input Messages manual.
  - VERIFY IN PROGRESS = Another office verification is currently in progress. Only one verification can be done at a time.

5. REFERENCES
Output Message(s):

VFY: OFC

Other Manual(s):

Where 'x' is the release-specific version of the document.

235-118-251  Recent Change Menu Mode Text Interface
235-118-25x  Recent Change Procedures
235-118-25x  Recent Change Reference
235-600-11x  Translations Data
235-200-110  Long Distance Platform
VFY:PAUTH
Software Release: 5E14 and later
Command Group: AUTH
Application: 5,3B
Type: Input

1. PURPOSE

Format 1 verifies a person identity and the person's last login date and time. If the optional identity (IDENT) parameter is not specified, the whole person authority database (PAUTH) is printed showing all person identities and last login times.

Format 2 verifies person identities with the following characteristics:

Those that surpass a particular number of days since last logging in.

Those that surpass a particular number of days for a single login session.

Those that have never logged in.

This input message is used in administering security of the maintenance interface. Refer to the Routine Operations and Maintenance manual for authority administration information.

2. FORMAT

[1] VFY:PAUTH[:IDENT="a"];


3. EXPLANATION OF MESSAGE

a = Identity of the person to whom the associated date and time applies, in one to eight letters and/or digits.

b = Number of days considered dormant, an integer from 1 to 99999 inclusive.

4. SYSTEM RESPONSE

NG = No good. Valid value(s):
- NO DORMANT USERS PRESENT = There are no dormant person identities falling within the specified number of days.
- NON-EXISTENT PERSON IDENTITY = The given person identity does not exist in the person authority database.
- UNABLE TO ACCESS AUTHORITY ADMINISTRATION = The person authority database is inaccessible.

PF = Printout follows. Followed by VFY:PAUTH output message.

5. REFERENCES

Input Message(s):
ADD:PAUTH
CHG:PAUTH
DEL:PAUTH

Output Message(s):

REPT:LOGIN
VFY:PAUTH

Other Manual(s):

235-105-210  Routine Operations and Maintenance
VFY:PCGRP
Software Release: 5E14 and later
Command Group: N/A
Application: 5,3B
Type: Input

1. PURPOSE
Verifies the person-command group (PCGRP) relation for a given person identity (IDENT). All command groups and profiles assigned to IDENT are printed using the VFY:PCGRP output message.

This input message is used in administering security of the maintenance interface. Refer to the Routine Operations and Maintenance manual for authority administration information.

2. FORMAT
VFY:PCGRP:IDENT=a;

3. EXPLANATION OF MESSAGE
a = Identity of the person in one to eight letters and/or digits.

4. SYSTEM RESPONSE
NG = No good. May also include:
- NON-EXISTENT PERSON IDENTITY = The given person identity does not exist in the person authority database.
- NO AUTHORITY GROUPS ASSIGNED TO THIS PERSON = No command groups or profiles have been assigned to this person identity; refer to the ADD:PCGRP and ADD:PROFL input messages.
- UNABLE TO ACCESS AUTHORITY ADMINISTRATION = The person authority database is inaccessible.

PF = Printout follows. Followed by output message VFY:PCGRP.

5. REFERENCES
Input Message(s):
ADD:PAUTH
ADD:PCGRP
ADD:PROFL
CHG:PAUTH
CHG:PROFL
DEL:PAUTH
DEL:PCGRP
DEL:PROFL
VFY:PAUTH
VFY:PROFL
Input Appendix(es):

APP : COMMAND-GRP

Output Message(s):

VFY : PAUTH
VFY : PROFL

Other Manual(s):
235-105-210  Routine Operations and Maintenance
VFY:PROFL

Software Release: 5E14 and later
Command Group: N/A
Application: 5,3B
Type: Input

1. PURPOSE

Verifies all profile names in the profile authority database (PROFL), or verifies the command groups associated with a given profile identity (IDENT) if the optional IDENT parameter is specified.

This input message is used in administering security of the maintenance interface. Refer to the Routine Operations and Maintenance manual for authority administration information.

2. FORMAT

VFY:PROFL[:IDENT=a];

3. EXPLANATION OF MESSAGE

a = Identity of the profile in one to eight letters and/or digits.

4. SYSTEM RESPONSE

NG = No good. May also include:
- NO AUTHORITY GROUPS ASSIGNED TO THIS PROFILE = The profile does not have any command groups assigned to it.
- NON-EXISTENT PROFILE IDENTITY = The given profile identity does not exist in the profile authority database.
- UNABLE TO ACCESS PROFILE ADMINISTRATION = The profile authority database is inaccessible.

PF = Printout follows. Followed by the VFY:PROFL output message.

5. REFERENCES

Input Message(s):
ADD:PROFL
CHG:PROFL
DEL:PROFL

Input Appendix(es):
APP:COMMAND-GRP

Output Message(s):
VFY:PROFL
Other Manual(s):
235-105-210  *Routine Operations and Maintenance*
VFY:RDTA-A

Software Release: 5E14 only
Command Group: TRKLN
Application: 5
Type: Input

1. PURPOSE

Requests verification of an active remote digital test access (RDTA) session for a specific port under test (PUT). This request will verify that the ports involved in an RDTA session are connected as intended. The PUT is always used on the input request to identify the session for verification.

The verification begins by accessing the switching module (SM), where the PUT on the input request resides, to determine the actual physical connection. That information is then compared with the session data in the administrative module (AM) for consistency. If there is consistency, a VFY:RDTA success output message is sent in response to the input request to describe the connection. Otherwise, a VFY:RDTA failure message is sent describing the inconsistency or reason for failure. An OP:RDTA input message may be executed to determine a port name for possible verification or to access additional information on a particular RDTA session.

2. FORMAT

VFY:RDTA,a[,CH=u];

3. EXPLANATION OF MESSAGE

Note: Refer to the Acronym section of the Input Messages manual for the full expansion of acronyms shown in the format.

a = Port identification. Valid value(s):

<table>
<thead>
<tr>
<th>Acronym</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>AIUE</td>
<td>AIUEN=d-l-v-w</td>
</tr>
<tr>
<td>BST</td>
<td>b-c</td>
</tr>
<tr>
<td>DEN</td>
<td>d-e-f-g</td>
</tr>
<tr>
<td>DN</td>
<td>h</td>
</tr>
<tr>
<td>ILEN</td>
<td>d-i-j-k</td>
</tr>
<tr>
<td>LCEN</td>
<td>d-l-m-n</td>
</tr>
<tr>
<td>LCEN</td>
<td>d-l-e_1-v-w</td>
</tr>
<tr>
<td>MLHG</td>
<td>o-p</td>
</tr>
<tr>
<td>INEN</td>
<td>d-x-j-k</td>
</tr>
<tr>
<td>NEN</td>
<td>d-x-y-z-a_1-b_1-c_1-d_1</td>
</tr>
<tr>
<td>OAPO</td>
<td>b</td>
</tr>
<tr>
<td>OPT</td>
<td>b-c</td>
</tr>
<tr>
<td>PKTDN</td>
<td>h</td>
</tr>
<tr>
<td>RTRS</td>
<td>q-r</td>
</tr>
<tr>
<td>TKGMN</td>
<td>s-t</td>
</tr>
</tbody>
</table>

b = Operator service center number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

c = Relative position number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

d = Switching module number.
e  = Digital line and trunk unit (DLTU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

f  = Digital facility interface (DFI) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

g  = Digital channel number. If this is a DFI-2, channels 1-24 are associated with T1-A and channels 25-48 are associated with facility T1-B.

h  = The DN. This parameter can only be used to identify channels associated with DSLs.

i  = Integrated digital carrier unit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

j  = Remote terminal (RT) number or IDCU digital signal level 1 (DS1) serving PUB43801 number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

k  = RT line number or PUB43801 channel. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

l  = Integrated services line unit (ISLU) or access interface unit (AIU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

m  = Line group controller number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

n  = Line card number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

o  = Multi-line hunt group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

p  = Multi-line hunt group member number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

q  = Data link relative group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

r  = Data link relative member number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

s  = Trunk group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

t  = Trunk group member number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

u  = Channel type (not valid for DEN and TKGMN port identification). Valid value(s):
      B1  = Channel B1.
      D   = D-channel (default).

v  = Line board number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
w = Line circuit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages Manual.

x = Digital networking unit - synchronous optical network (SONET) (DNU-S) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages Manual.

y = Data group (DG) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages Manual.

z = SONET termination equipment (STE) facility number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages Manual.

a¹ = Synchronous transport signal (STS) facility number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages Manual.

b¹ = Virtual tributary group (VTG) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages Manual.

c¹ = Virtual tributary member (VTM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages Manual.

d¹ = Digital signal level 0 (DS0) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages Manual.

e¹ = Line group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages Manual.

4. SYSTEM RESPONSE

PF = Printout follows. The request has been accepted. Followed by VFY:RDTA output message.

RL = Retry later. Valid value(s):
   - FAILED TO CREATE PROCESS = A system error has occurred. Refer to the TECHNICAL ASSISTANCE portion of the INTRODUCTION section of the Input Messages manual.
   - TOO MANY PROCESSES ACTIVE = The request has been denied, probably due to system load.

5. REFERENCES

Input Message(s):

EXC:RDTA
OP:RDTA
STP:RDTA
UPD:RDTA

Output Message(s):

EXC:RDTA
OP:RDTA
STP:RDTA
VFY:RDTA-B

Software Release: 5E15 only
Command Group: TRKLN
Application: 5
Type: Input

1. PURPOSE

Requests verification of an active remote digital test access (RDTA) session for a specific port under test (PUT). This request will verify that the ports involved in an RDTA session are connected as intended. The PUT is always used on the input request to identify the session for verification.

The verification begins by accessing the switching module (SM), where the PUT on the input request resides, to determine the actual physical connection. That information is then compared with the session data in the administrative module (AM) for consistency. If there is consistency, a VFY:RDTA success output message is sent in response to the input request to describe the connection. Otherwise, a VFY:RDTA failure message is sent describing the inconsistency or reason for failure. An OP:RDTA input message may be executed to determine a port name for possible verification or to access additional information on a particular RDTA session.

2. FORMAT

VFY:RDTA,a[,CH=u];

3. EXPLANATION OF MESSAGE

Note: Refer to the Acronym section of the Input Messages manual for the full expansion of acronyms shown in the format.

a = Port identification. Valid value(s):

<table>
<thead>
<tr>
<th>Acronym</th>
<th>Example</th>
</tr>
</thead>
<tbody>
<tr>
<td>AIUE=d-l-v-w</td>
<td></td>
</tr>
<tr>
<td>BST=b-c</td>
<td></td>
</tr>
<tr>
<td>BSN=d-e-f-g</td>
<td></td>
</tr>
<tr>
<td>DN=h</td>
<td></td>
</tr>
<tr>
<td>ILEN=d-i-j-k</td>
<td></td>
</tr>
<tr>
<td>LCEN=d-l-m-n</td>
<td></td>
</tr>
<tr>
<td>LCKEN=d-l-e^1-v-w</td>
<td></td>
</tr>
<tr>
<td>MLHG=o-p</td>
<td></td>
</tr>
<tr>
<td>INEN=d-x-j-k</td>
<td></td>
</tr>
<tr>
<td>DNEN=d-x-y-z-a^1-b^1-c^1-d^1</td>
<td></td>
</tr>
<tr>
<td>GAPD=b</td>
<td></td>
</tr>
<tr>
<td>OPT=b-c</td>
<td></td>
</tr>
<tr>
<td>PKTDN=h</td>
<td></td>
</tr>
<tr>
<td>RTRSN=q-r</td>
<td></td>
</tr>
<tr>
<td>TRGMN=s-t</td>
<td></td>
</tr>
<tr>
<td>PLTEN=d-f^1-g^1-h^1-i^1</td>
<td></td>
</tr>
</tbody>
</table>

b = Operator service center number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

c = Relative position number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

d = Switching module number.

e = Digital line and trunk unit (DTLU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.
= Digital facility interface (DFI) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

g = Digital channel number. If this is a DFI-2, channels 1-24 are associated with T1-A and channels 25-48 are associated with facility T1-B.

h = The DN. This parameter can only be used to identify channels associated with DSLs.

i = Integrated digital carrier unit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

j = Remote terminal (RT) number or IDCU digital signal level 1 (DS1) serving PUB43801 number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

k = RT line number or PUB43801 channel. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

l = Integrated services line unit (ISLU) or access interface unit (AIU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

m = Line group controller number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

n = Line card number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

o = Multi-line hunt group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

p = Multi-line hunt group member number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

q = Data link relative group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

r = Data link relative member number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

s = Trunk group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

t = Trunk group member number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

u = Channel type (not valid for DEN and TKGMN port identification). Valid value(s):

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>B1</td>
<td>Channel B1.</td>
</tr>
<tr>
<td>D</td>
<td>D-channel (default).</td>
</tr>
</tbody>
</table>

v = Line board number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages Manual.

w = Line circuit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages Manual.
x = Digital networking unit - synchronous optical network (SONET) (DNU-S) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages Manual.

y = Data group (DG) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages Manual.

z = SONET termination equipment (STE) facility number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages Manual.

a¹ = Synchronous transport signal (STS) facility number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages Manual.

b¹ = Virtual tributary group (VTG) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages Manual.

c¹ = Virtual tributary member (VTM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages Manual.

d¹ = Digital signal level 0 (DS0) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages Manual.

e¹ = Line group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages Manual.

f¹ = Peripheral control and timing (PCT) line and trunk unit (PLTU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages Manual.

g¹ = PCT facility interface (PCTFI) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages Manual.

h¹ = Tributary number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages Manual.

i¹ = Channel number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages Manual.

4. SYSTEM RESPONSE

PF = Printout follows. The request has been accepted. Followed by VFY:RDTA output message.

RL = Retry later. Valid value(s):
   - FAILED TO CREATE PROCESS = A system error has occurred. Refer to the TECHNICAL ASSISTANCE portion of the INTRODUCTION section of the Input Messages manual.
   - TOO MANY PROCESSES ACTIVE = The request has been denied, probably due to system load.

5. REFERENCES

Input Message(s):
   EXC:RDTA
   OP:RDTA
Output Message(s):

EXC: RDTA
OP: RDTA
STP: RDTA
UPD: RDTA
VFY: RDTA

Input Appendix(es):

APP: RANGES

Other Manual(s):

235-105-110  System Maintenance Requirements and Tools
235-190-104  ISDN Feature Description
235-900-341  National ISDN Basic Rate Interface Specification
1. PURPOSE

Requests verification of an active remote digital test access (RDTA) session for a specific port under test (PUT). This request will verify that the ports involved in an RDTA session are connected as intended. The PUT is always used on the input request to identify the session for verification.

The verification begins by accessing the switching module (SM), where the PUT on the input request resides, to determine the actual physical connection. That information is then compared with the session data in the administrative module (AM) for consistency.

If there is consistency, a VFY:RDTA success output message is sent in response to the input request to describe the connection. Otherwise, a VFY:RDTA failure message is sent describing the inconsistency or reason for failure. An OP:RDTA input message may be executed to determine a port name for possible verification or to access additional information on a particular RDTA session.

2. FORMAT

VFY:RDTA,a[,CH=u];

3. EXPLANATION OF MESSAGE

Refer to the Acronym section of the Input Messages manual for the full expansion of acronyms shown in the format.

\[\text{a} = \text{Port identification. Valid value(s):}\]
\[\text{AIUEN=dlv-w}\]
\[\text{BST=bc}\]
\[\text{DEN=del-f-g}\]
\[\text{DN=h}\]
\[\text{ILEN=di-j-k}\]
\[\text{LCEN=dlm-n}\]
\[\text{LCKEN=dl-\text{i}v-w}\]
\[\text{MLHG=op}\]
\[\text{INEN=dxj-k}\]
\[\text{NEN=dxyzal-bcl-dl}\]
\[\text{OAPO=b}\]
\[\text{OPT=bc}\]
\[\text{PKTDN=h}\]
\[\text{PLLEN=df-gl-hi}\]
\[\text{RTRS=q-r}\]
\[\text{TKGMN=st}\]
\[\text{OIUEN=d-ijkl-zal-bcl-dl}\]

\[\text{b} = \text{Operator service center number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.}\]

\[\text{c} = \text{Relative position number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.}\]
= Switching module number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

e = Digital line and trunk unit (DLTU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

f = Digital facility interface (DFI) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

g = Digital channel number. If this is a DFI-2, channels 1-24 are associated with T1-A and channels 25-48 are associated with facility T1-B.

h = The DN. This parameter can only be used to identify channels associated with DSLs.

i = Integrated digital carrier unit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

j = Remote terminal (RT) number or IDCU digital signal level 1 (DS1) serving PUB43801 number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

k = RT line number or PUB43801 channel. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

l = Integrated services line unit (ISLU) or access interface unit (AIU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

m = Line group controller number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

n = Line card number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

o = Multi-line hunt group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

p = Multi-line hunt group member number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

q = Data link relative group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

r = Data link relative member number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

s = Trunk group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

t = Trunk group member number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

u = Channel type (not valid for DEN and TKGMN port identification). Valid value(s):

- B1 = Channel B1.
- D = D-channel (default).
v = Line board number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

w = Line circuit number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

x = Digital networking unit - synchronous optical network (SONET) (DNU-S) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

y = Data group (DG) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

z = SONET termination equipment (STE) facility number. For OIU-NAR, it is OC-3. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

a¹ = Synchronous transport signal (STS) facility number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

b¹ = Virtual tributary group (VTG) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

c¹ = Virtual tributary member (VTM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

d¹ = Digital signal level 0 (DS0) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

e¹ = Line group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

f¹ = Peripheral control and timing (PCT) line and trunk unit (PLTU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

g¹ = PCT facility interface (PCTFI) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

h¹ = Tributary number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

i¹ = Channel number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

j¹ = Optical Interface Unit (OIU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

k¹ = Protection Group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

4. SYSTEM RESPONSE

PF = Printout follows. The request has been accepted. Followed by the VFY:RDTA output message.

RL = Retry later. May also include:
- FAILED TO CREATE PROCESS = A system error has occurred. Refer to the TECHNICAL ASSISTANCE portion of the INTRODUCTION section of the Input Messages manual.
- TOO MANY PROCESSES ACTIVE = The request has been denied, probably due to system load.

5. REFERENCES

Input Message(s):

EXC: RDTA
OP: RDTA
STP: RDTA
UPD: RDTA

Output Message(s):

EXC: RDTA
OP: RDTA
STP: RDTA
UPD: RDTA
VFY: RDTA

Input Appendix(es):

APP: RANGES

Other Manual(s):
235-105-110  System Maintenance Requirements and Tools
235-190-104  ISDN Feature Description
235-900-341  National ISDN Basic Rate Interface Specification
VFY:RTBM

Software Release: 5E14 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

Requests verification of the amount of Real Time Billing Memory (RTBM) and the amount currently in use. Verification can be given for all switching module (SM) types.

2. FORMAT

VFY:RTBM, SM=a;

3. EXPLANATION OF MESSAGE

a = SM number.

4. SYSTEM RESPONSE

PF = Printout follows. Request accepted. The VFY:RTBM output message will follow.
RL = Retry later. SM is isolated.

5. REFERENCES

Input Message(s):

CFR:RTBM

Output Message(s):

CFR:RTBM
VFY:RTBM

Other Manual(s):

Where 'x' is the release-specific version of the document.

235-200-110 Long Distance Platform
VFY:SAMEM-A
Software Release: 5E14 only
Command Group: SM
Application: 5
Type: Input

1. PURPOSE
Requests verification of the amount of stand-alone billing memory (SAMEM) and the amount currently in use. Verification can be given for all switching module (SM) types.

2. FORMAT
VFY: SAMEM, SM=a;

3. EXPLANATION OF MESSAGE
a = SM number.

4. SYSTEM RESPONSE
PF = Printout follows. Request accepted. The VFY:SAME M output message will follow.
RL = Retry later. SM is isolated.

5. REFERENCES
Input Message(s):
    CFR: SAMEM
    VFY: SAMEM

Output Message(s):
    CFR: SAMEM

Other Manual(s):
Where 'x' is the release-specific version of the document.
235-190-101 Business and Residence Modular Features
235-190-115 Local and Toll System Features
235-190-130 Local Area Services Features
235-900-113 Product Specification
VFY:SAMEM-B

Software Release: 5E15 and later
Command Group: SM
Application: 5
Type: Input

1. PURPOSE

The V FY:SAMEM input message requests a report of the amount of memory configured for the Stand Alone Billing Memory (SABM) and the amount currently in use. This command can be used for all switching module (SM) types.

2. FORMAT

VFY:SAMEM, SM=a;

3. EXPLANATION OF MESSAGE

a = SM number.

4. SYSTEM RESPONSE

PF = Printout follows. Request accepted. The V FY:SAMEM output message will follow.

RL = Retry later. SM is isolated.

5. REFERENCES

Input Message(s):

CFR:SAMEM

Output Message(s):

CFR:SAMEM
VFY:SAMEM

Other Manual(s):

Where 'x' is the release-specific version of the document.

235-190-103 Business and Residence Feature Description
235-190-115 Local and Toll System Features
235-190-130 Local Area Signaling Services
235-900-113 Product Specification
VFY:TAPE

Software Release: 5E14 and later
Command Group: FHADM
Application: 5,3B
Type: Input

1. PURPOSE

Requests verification of the readability of information on administrative module (AM) tapes and the consistency of corresponding hash sums.

System tapes are formatted as a series of headers, each followed by a number of data blocks (or records). A header contains information concerning the number of data blocks which follow it and the size of the blocks. The last header on the tape has no associated data records and is called the trailer header. Each header also contains a hash sum for the header itself and a hash sum for the total of all its corresponding records. Tape verification will check the header and data hash sums and make sure that all information is readable. On a digital audio tape (DAT), a single session or a single volume can be verified. A DAT may be formatted as a multi-volume tape; that is, it may contain headers and data blocks for more than one logical volume. One of these logical volumes or several logical volumes grouped together form a session, and several sessions may be found on a DAT.

2. FORMAT

VFY:TAPE,TD="a"[:RETRY=b][,SESS=c[,VOL=d]][,VERBOSE];

3. EXPLANATION OF MESSAGE

a = Special device file name of the tape drive where system tape to be verified is loaded. Refer to the ECD/SG manual.

b = Number of times to retry after tape read errors (default two). If a read attempt is unsuccessful, the tape will backspace and try to read again until either the attempt is successful or the retry count is exceeded.

c = Number of the session that is to be verified. This option is only valid for a multi-volume DAT. The range of session numbers is 1-9.

d = Number of the volume that is to be verified. This option is only valid for a multi-volume DAT. The range of volume numbers is 0-9.

If verbose option is specified, a line of output is produced for each header hash sum successfully read, and for each header or data record successfully read but required retries.

4. SYSTEM RESPONSE

PF = Printout follows. Followed by VFY:TAPE output message.

5. REFERENCES

Output Message(s):

VFY:TAPE
Other Manual(s):

Where 'x' is the release-specific version of the specified manual.

235-600-30x  ECD/SG
**VFY:TAUTH**

**Software Release:** 5E14 and later  
**Command Group:** N/A  
**Application:** 5,3B  
**Type:** Input

1. **PURPOSE**

Verifies all terminal identities in the terminal authority (TAUTH) database.

This input message is used in administering security of the maintenance interface. Refer to the Routine Operations and Maintenance manual for authority administration information.

2. **FORMAT**

    VFY:TAUTH;

3. **EXPLANATION OF MESSAGE**

None.

4. **SYSTEM RESPONSE**

   NG  = No good. May also include:
   - NO TERMINAL AUTHORITY PRESENT = No terminal authority exists; refer to the ADD:TAUTH input message.
   - UNABLE TO ACCESS AUTHORITY ADMINISTRATION = The terminal authority database is inaccessible.

   PF  = Printout follows. Followed by the VFY:TAUTH output message.

5. **REFERENCES**

Input Message(s):

    ADD:TAUTH
    DEL:TAUTH

Output Message(s):

    VFY:TAUTH
**VFY:TCGRP**

*Software Release:* 5E14 and later  
*Command Group:* N/A  
*Application:* 5,3B  
*Type:* Input

1. **PURPOSE**

Verifies terminal-command group (TCGRP) relation for a given terminal (TERM) identity. All command groups and profiles assigned to TERM are printed using the VFY:TCGRP output message.

This input message is used in administering security of the maintenance interface. Refer to the Routine Operations and Maintenance manual for authority administration information.

2. **FORMAT**

`VFY:TCGRP:TERM=a;`

3. **EXPLANATION OF MESSAGE**

`a`  
= Terminal identity in four characters, starting with "tty".

4. **SYSTEM RESPONSE**

`NG`  
= No good.  
- **INVALID TERMINAL IDENTITY** = The given terminal identity is either not four characters in length or does not start with "tty".  
- **NO AUTHORITY GROUPS ASSIGNED TO THIS TERMINAL** = No command groups or profiles have been assigned to this terminal identity; refer to the ADD:TCGRP and ADD:PROFL input messages.  
- **NON-EXISTENT TERMINAL IDENTITY** = The given terminal identity does not exist in the terminal authority database.  
- **UNABLE TO ACCESS AUTHORITY ADMINISTRATION** = The terminal authority database is inaccessible.

`PF`  
= Printout follows. Followed by the VFY:TCGRP output message.

5. **REFERENCES**

Input Message(s):

- ADD:PROFL  
- ADD:PROFL  
- ADD:TCGRP  
- CHG:PROFL  
- DEL:PROFL  
- DEL:TCGRP  
- VFY:PROFL  
- VFY:TAUTH
Input Appendix(es):

APP:COMMAND-GRP

Output Message(s):

VFY:PROFL
VFY:TAUTH
VFY:TCGRP

Other Manual(s):
235-105-210   Routine Operations and Maintenance
82. WHEN
WHEN:COND

Software Release: 5E14 and later
Command Group: SFTUTIL
Application: 5,3B
Type: Input

1. PURPOSE

Starts a list of administrative module (AM) generic access package (GRASP) input messages that are to be performed when an external event breakpoint condition exists. The list of input messages is called and action list.

2. FORMAT

WHEN:COND=E;

3. EXPLANATION OF MESSAGE

An external event condition exists when the external event backplane signal becomes active.

Commands following a WHEN:COND input message are restricted to the following list. A maximum of five input messages is allowed in the action lists.

- ALW:{UTIL|UTILFLAG|UMEM}
- INH:{UTIL|UTILFLAG|UMEM}
- DUMP:{ADDR|PMEM|REG|UVAR}
- COPY: all forms of the input message, except process identification (PID) or PID source.
- LOAD: all forms of the input message.

Note: Refer to the message descriptions for the details of how the input messages are used within the WHEN input message.

The action list is terminated with the END:WHEN! input message.

E = Action list performed when an external event occurs.

4. SYSTEM RESPONSE

IP = In progress. Breakpoint condition is understood. The associated action list is expected to follow.

NG = No good. May also include:
- TOO MANY BREAKPOINTS = Only 20 breakpoints are permitted at one time.
- UCERR = The utility circuit is unavailable.

RL = Retry later. The system is in an overload condition or completing the previous OP:UMEM message.
5. REFERENCES

Input Message(s):

ALW:UMEM
ALW:UTIL
ALW:UTILFLAG
CLR:UTIL
CLR:UTILFLAG
COPY:ACTDISK
COPY:ADDR
COPY:BKDISK
COPY:DIFF-SRC-MHD
COPY:OOSDISK
COPY:PID
COPY:PTN-ALL
COPY:REG
COPY:SPDISK
COPY:TAPE-EMERDMP
COPY:TAPE-IN
COPY:TAPE-OUT
COPY:TAPE-TEST
COPY:UID
COPY:UVAR
DUMP:ADDR
DUMP:PMEM
DUMP:REG
DUMP:UVAR
END:WHEN
INH:UMEM
INH:UTIL
INH:UTILFLAG
INIT:UMEM
LOAD:ADDR
LOAD:DFC-PUMP
LOAD:DFC-RAM
LOAD:MHD
LOAD:PMEM
LOAD:REG
LOAD:UVAR
OP:UMEM
OP:UTIL
WHEN:UID

Output Message(s):

OP:UTIL
REPT:GRASP
WHEN:COND
WHEN:PID
Software Release: 5E14 and later
Command Group: SFTUTIL
Application: 5,3B
Type: Input

1. PURPOSE

Requests that a list of administrative module (AM) generic access package (GRASP) messages be executed when a specified breakpoint condition exists. The list of messages is called an action list.

Two types of breakpoint conditions are recognized: instruction-execution conditions and data-access conditions.

Format 1 is used when instruction-execution breakpoints are required.

Format 2 is used when data-access breakpoints are required.

Instruction execution is detected by specifying a virtual address within a process. When the instruction at that address is executed, the action list is executed. The first byte of the instruction opcode expected to be found at that address must be specified in the message. The breakpoint definition is rejected if this opcode does not agree with the opcode found at the virtual address.

Data access is indicated by specifying both the virtual address within the process and the type of access to be detected: read, write, and read/write.

A data access breakpoint will fire if the location specified is addressed with the correct access type. A data access breakpoint over a range of data locations will fire if any location in the range is addressed with the correct access tape.

Messages following the WHEN message are restricted to the following list. A maximum of five messages are allowed in action lists.

- ALW: {UTIL|UTILFLAG|UMEM}
- COPY: All forms of the message except process ID (PID) or utility ID (UID) source.
- DUMP: {ADDR|PMEM|REG|UVAR}
- INH: {UTIL|UTILFLAG|UMEM}
- LOAD: All forms of the message.

Note: Refer to the message description for the details of how the messages are used within the WHEN message.

The action list is terminated with the END:WHEN input message.

2. FORMAT

[1] WHEN:PID=a,ADDR=b,OPC=e:EXC[,WORD]!
[2] WHEN:PID=a,ADDR={b[&c][,L=d]}:(R|W|RW)[,WORD]!

3. EXPLANATION OF MESSAGE

EXC = Execute the action list when the breakpoint address is executed.
**R** = Trigger the action list when a read operation occurs on any part of the full memory word containing the specified byte address(es).

**RW** = Trigger the action list when either the R or the W condition is met.

**W** = Trigger the action list when a write operation occurs on any part of the full memory word containing the specified byte address(es).

**WORD** = Interpret the address and length fields as words. If this option is omitted, they are assumed to be byte values.

**a** = Process ID (PID) of the target process.

**b** = Virtual byte address for the breakpoint, or the beginning address of a range of addresses, in decimal, octal, or hexadecimal notation.

**c** = End address for a range of addresses.

**d** = Length of a range of addresses in bytes.

**e** = One-byte opcode expected to be found at the breakpoint address. The value is checked for software implemented breakpoints only.

### 4. SYSTEM RESPONSE

**IP** = In progress. Breakpoint condition is understood. The associated action list is expected to follow.

**NG** = No good. May also include:
- **BAD PID** = The process ID is for a process for which dumps are not permitted.
- **TOO MANY BREAKPOINTS** = Only 20 breakpoints are permitted at one time.
- **UCERR** = The utility circuit is unavailable.

**RL** = Retry later. The system is in an overload condition or completing the previous OP:UMEM message.

**?A** = Action field or command code contains an error. It may mean that the command code was incorrectly typed or that a field delimiter was omitted. May also include:
- **INVALID KEY WORD** = The message is not allowed in a WHEN action list. The END:WHEN input message is expected after the fifth action.

**?I** = General syntax error or:
- **RANGE ERROR (PID)** = Process ID is out of range.
- **RANGE ERROR (OPC)** = One byte opcode is expected.
- **INCONSISTENT DATA (ADDR)** = Address range must be in ascending order.

### 5. REFERENCES

Input Message(s):

ALW:UMEM
WHEN:RUTIL

Software Release: 5E14 and later
Command Group: SFTUTIL
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Requests a set of the given break point at the specified common network interface (CNI) ring node with the action-list provided.

The results of this operation are displayed. On a successful break point setup, the break point is automatically inhibited (disabled). The user must use the ALW:RUTIL or ALW:RUTILFLAG input request to enable this break point. In a given node, the maximum number of outstanding <action-list> items allowed is 25. The user is prompted for <action-list> items. Nested WHEN:RUTIL input requests are not allowed. Valid action-list input requests are:

ALW:RUTIL
ALW:RUTILFLAG
INH:RUTIL
INH:RUTILFLAG

The remaining input options are valid only within a WHEN action-list:

DUMP:ADDR
DUMP:REG
LOAD:BYTE
LOAD:REG
LOAD:SHORT
LOAD:WORD

The action-list is entered at the WHEN prompt after the WHEN input request is entered. The action-list is terminated by the END:WHEN input request.

WARNING: Incorrect use of this request may interrupt operation of a node on the CNI ring or the whole CNI ring.

2. FORMAT

WHEN:RUTIL=a-b,AP:ADDR=c,OPC=d:EXC; . . .
  . . .[ALW:RUTIL=a-b,AP[:MHIT=p]]; . . .
  . . .[ALW:RUTILFLAG=a-b,AP:BP=o[,MHIT=p]]; . . .
  . . .[DUMP:ADDR=e,L=f;]. . .
  . . .[DUMP:REG=g;]. . .
  . . .[INH:RUTIL=a-b,AP:]. . .
  . . .[INH:RUTILFLAG=a-b,AP:BP=o:]. . .
  . . .[LOAD:BYTE=h:DATA,D=i;]. . .
  . . .[LOAD:REG=g:DATA,D=j;]. . .
  . . .[LOAD:SHORT=k:DATA,D=l;]. . .
  . . .[LOAD:WORD=m:DATA,D=n;]. . .
  . . .END:WHEN;

3. EXPLANATION OF MESSAGE
AP = Attached processor.

a = Group number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

b = Member number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

c = Address of the break point in hexadecimal. This must be the address of the first byte of a target processor instruction.

d = Opcode of text where break point is placed in hexadecimal.

e = Address to begin dump in hexadecimal.

f = Number of bytes to dump in decimal.

g = Name of the register to dump or load. Valid value(s):

<table>
<thead>
<tr>
<th>68000 and 68030 CPU's</th>
<th>68030 CPU only:</th>
</tr>
</thead>
<tbody>
<tr>
<td>A0, A1, A2, A3</td>
<td>DFC, MMUSR, MSR,</td>
</tr>
<tr>
<td>A4, A5, A6, A7</td>
<td>SFC, SRPH, SRPL,</td>
</tr>
<tr>
<td>D0, D1, D2, D3</td>
<td>TC, TT0, TT1,</td>
</tr>
<tr>
<td>D4, D5, D6, D7</td>
<td>VBR, VOFSET</td>
</tr>
<tr>
<td>ISP, SR, PC, TRADR,</td>
<td>CAAR, CACR, CCR, CRPH,</td>
</tr>
<tr>
<td>USP</td>
<td>CRPL</td>
</tr>
</tbody>
</table>

h = Address to load data in hexadecimal.

i = Data value to load in hexadecimal. The data provided must be a byte value.

j = Data value to load in hexadecimal. (a maximum of four bytes)

k = Address to load data in hexadecimal. The address provided is expected to be an even address.

l = Data value to load in hexadecimal. The data provided is expected to be a two-byte value.

m = Address to load data in hexadecimal. The address provided is expected to be on a four-byte boundary.

n = Data value to load in hexadecimal. The data provided is expected to be a four-byte value.

O = Specific break point to be allowed.

p = Maximum number of hits to be allowed for that break point. (If not specified MHIT is set to 10.)

4. SYSTEM RESPONSE

PF = Printout follows. Followed by WHEN:RUTIL output requests.

5. REFERENCES

Input Message(s):
ALW:RUTIL
ALW:RUTILFLAG
CLR:RUTIL
CLR:RUTILFLAG
DUMP:RUTIL
INH:RUTIL
INH:RUTILFLAG
LOAD:RUTIL
OP:RUTIL
OP:RUTILFLAG

Output Message(s):

ALW:RUTIL
ALW:RUTILFLAG
CLR:RUTIL
CLR:RUTILFLAG
DUMP:RUTIL
INH:RUTIL
INH:RUTILFLAG
LOAD:RUTIL
OP:RUTIL
OP:RUTILFLAG
REPT:RUTIL
WHEN:RUTIL

Other Manual(s):
235-105-110 System Maintenance Requirements and Tools
WHEN: UID

Software Release: 5E14 and later
Command Group: SFTUTIL
Application: 5,3B
Type: Input

1. PURPOSE

Requests that a list of administrative module (AM) generic access package (GRASP) messages that are to be performed when a specified breakpoint condition exists be triggered.

The list of messages is called an action list. Two types of breakpoint conditions are recognized: instruction execution conditions and data access conditions. Format 1 is used when instruction-execution breakpoints are required. Format 2 is used when data-access breakpoints are required. Instruction execution is detected by specifying a virtual address within a process. When the instruction at that address is executed, the action list is executed. The first byte of the instruction opcode expected to be found at that address must be specified in the message. The breakpoint definition is rejected if this opcode does not agree with the opcode found at the virtual address. Data access is indicated by specifying both the virtual address within a process and the type of access to be detected: read, write, or read-write. A data access breakpoint will fire if the location specified is addressed with the correct access type. A data access breakpoint over a range of data locations will fire if any location in the range is addressed with the correct access type. Messages following the WHEN message are restricted to the following list. A maximum of five messages is allowed in action lists.

ALW: {UTIL|UTILFLAG|UMEM}
COPY: = All forms of the message, except PID or UID source.
DUMP: {ADDR|PMEM|REG|UVAR}
INH: {UTIL|UTILFLAG|UMEM}
LOAD: = All forms of the message.

Note: Refer to the message descriptions for the details of how the messages are used within the WHEN message.

The action list is terminated with the END: WHEN message.

2. FORMAT

[1] WHEN: UID=a, ADDR=b, OPC=e: EXC [, WORD];
[2] WHEN: UID=a, ADDR={b[ && c][,L=d] } : ( R | W | RW) [, WORD];

3. EXPLANATION OF MESSAGE

EXC = Trigger the action list when the breakpoint address is executed.
R = Trigger the action list when a read operation occurs on any part of the full memory word containing the specified byte address(es).
RW = Trigger the action list when either the R or the W condition is met.
W = Trigger the action list when a write operation occurs on any part of the full memory word containing the specified byte address(es).
WORD = Interpret address and length fields as words. If this option is omitted, they are assumed to be byte values.

a = Utility ID (UID) number of target process.

b = Virtual byte address for the breakpoint or first address in a range of addresses. Specified in decimal, octal, or hexadecimal notation.

c = End address for a range of addresses.

d = Length of a range of addresses in bytes.

e = One byte opcode expected to be found at the breakpoint address. The value is only checked for software implemented breakpoints.

4. SYSTEM RESPONSE

IP = In progress. Breakpoint condition is understood. The associated action list is expected to follow.

NG = No good. May also include:
- BAD UID = The UID is for a process for which dumps are not permitted.
- TOO MANY BREAKPOINTS = Only 20 breakpoints are permitted at one time.
- UCERR = The utility circuit is unavailable.

RL = Retry later. The system is in an overload condition or completing the previous OP:UMEM or message.

?A = Action field or command code contains an error. It may mean that the command code was incorrectly typed or that a field delimiter was omitted. May also include:
- INVALID KEYWORD = The message is not allowed in a WHEN action list. END:WHEN expected after fifth action.

?I = General syntax error or:
- INCONSISTENT DATA (ADDR) = Address range must be in ascending order.
- RANGE ERROR (OPC) = One byte opcode is expected.
- RANGE ERROR (UID) = Utility ID is out of range.

5. REFERENCES

Input Message(s):

ALW:UMEM
ALW:UTIL
ALW:UTILFLAG
CLR:UTIL
CLR:UTILFLAG
COPY:ACTDISK
COPY:ADDR
COPY:BKDISK
COPY:DIFF-SRC-MHD
COPY:OOSDISK
COPY: PID
COPY: PTN-ALL
COPY: REG
COPY: SPDISK
COPY: TAPE-EMERDMP
COPY: TAPE-IN
COPY: TAPE-OUT
COPY: TAPE-TEST
COPY: UID
COPY: UVAR
DUMP: ADDR
DUMP: PMEM
DUMP: REG
DUMP: UVAR
END: WHEN
INH: UMEM
INH: UTIL
INH: UTILFLAG
INIT: UMEM
LOAD: ADDR
LOAD: DFC-PUMP
LOAD: DFC-RAM
LOAD: MHD
LOAD: PMEM
LOAD: REG
LOAD: UVAR
OP: UMEM
OP: UTIL
WHEN: PID

Output Message(s):

OP: UTIL
WHEN: UID
REPT: GRASP
WHEN:UT-CMP-A

Software Release: 5E14 only
Command Group: SFTUTIL
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Format 1 requests that a temporary generic utility WHEN breakpoint be defined using an address of an application program in the specified communications module processor (CMP).

Format 2 requests that a temporary generic utility WHEN breakpoint be defined using the symbolic address of an application program in the specified CMP. Format 3 requests that a generic utility timed WHEN be defined in the specified CMP. All formats give the user the ability to sequence through a defined list of generic utility input messages at a given point in the application code (breakpoint), or at an approximate time interval (timed). This message may be used together with any of the other CMP generic utility input messages (refer to the input messages listed in the REFERENCES section). If this message is used together with other generic utility input messages, the END:UT-CMP input message may be used to signal the end of the series of messages.

Note: Generic utility WHEN input messages may be removed from processors by various software maintenance/recovery activities (that is, pumps, initializations, audits, and so forth).

WARNING: The user takes responsibility for any effects on system operation that result from the use of this input message. Know the effects of the message before using it.

2. FORMAT

[1] WHEN:UT:CMP=a,[MATE|PRIM],ADDR=b,OPC=f [,HIT=h][,FOREVER][,NOPRINT][,UTILFLAG=i]{!|;}
[2] WHEN:UT:CMP=a,[MATE|PRIM],[FUNC=c|SYMIDX=d] [,OFF=e,OPC=f][,HIT=h][,FOREVER][,NOPRINT][,UTILFLAG=i]{!|;}
[3] WHEN:UT:CMP=a,[MATE|PRIM],TIME=g [,HIT=h][,FOREVER][,NOPRINT][,UTILFLAG=i]{!|;}

3. EXPLANATION OF MESSAGE

FOREVER = Allow the WHEN to be hit an unlimited number of times. If neither HIT=h nor FOREVER is specified, the hit count 'h' defaults to 1.
MATE = Execute this input message in the standby CMP.
NOPRINT = Suppress the WHEN:UT-CMP output message.
PRIM = Execute this input message in the active CMP.
a = CMP number.
b = Absolute address at which to set the breakpoint.
c = Symbolic name of the function. The name is entered as a string of up to 15 characters, enclosed in double quotation marks. If the symbol name is greater than 15 characters the symbol index number 'd' must be used to enter this input message using symbolics. The function's symbol index number can be determined by using the DUMP:UT-SYMID input message.

d = Symbol index number of function. The symbol index can be determined for this processor by using the DUMP:UT-SYMID input message.

e = Offset to be added to the function address in bytes (0 - 65535).

f = Two bytes of opcode that is expected at address 'b' or within function 'c' or 'd' at offset 'e'.

g = Time interval, in milliseconds, at which the timer expires (1 - 4,294,967,295).

h = Number of times the WHEN may be activated before being automatically inhibited. If neither HIT=h nor FOREVER is specified, the hit count 'h' (1 - 32,767, default is 1).

i = User-specified ID of the WHEN input message if it is unique within the system. If the WHEN ID number is not contained within the numeric range of 0 through 127 and there are fewer than 45 total WHEN input messages in the system, or if the WHEN input message is not unique, the system will automatically assign the next available WHEN ID number and no error message will be printed.

4. SYSTEM RESPONSE

Refer to the APP:UT-IM-REASON appendix in the Appendixes section of the Input Messages manual.

5. REFERENCES

Input Message(s):

ALW:UT-CMP
CLR:UT-CMP
COPY:UT-CMP
DUMP:UT-CMP
DUMP:UT-SYMID
ELSE:UT-CMP
END:UT-CMP
EXC:UT-CMP
IF:UT-CMP
IF:UT-CMP-ENDIF
INH:UT-CMP
LOAD:UT-CMP
OP:UT-CMP

Output Message(s):

WHEN:UT-CMP

Input Appendix(es):

APP:UT-IM-REASON

Other Manual(s):
WHEN:UT-CMP-B

Software Release: 5E15 and later
Command Group: SFTUTIL
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Format 1 requests that a temporary generic utility WHEN breakpoint be defined using an address of an application program in the specified communications module processor (CMP).

Format 2 requests that a temporary generic utility WHEN breakpoint be defined using the symbolic address of an application program in the specified CMP. Format 3 requests that a generic utility timed WHEN be defined in the specified CMP. Format 4 defines a matching WHEN input message. The matching WHEN input message is only supported on CM Model 3 CMPs. Format 5 defines an instruction access address WHEN input message. The instruction access address WHEN input message is only supported on CM Model 3 CMPs. Format 6 defines a data address access WHEN input message. The data address access WHEN input message is only supported on CM Model 3 CMPs. All formats give the user the ability to sequence through a defined list of generic utility input messages at a given point in the application code (breakpoint formats 1 & 2), or at an approximate time interval (timed format 3), when a complete match is made on the E-Bus (matching format 4), the microprocessor fetches the specified instruction (instruction address format 5), or microprocessor detects the specified access on the data address (data access format 6). This message may be used together with any of the other CMP generic utility input messages (refer to the input messages listed in the REFERENCES section). If this message is used together with other generic utility input messages, the END:UT-CMP input message may be used to signal the end of the series of messages.

Note: Generic utility WHEN input messages may be removed from processors by various software maintenance/recovery activities (that is, pumps, initializations, audits, and so forth).

WARNING: The user takes responsibility for any effects on system operation that result from the use of this input message. Know the effects of the message before using it.

2. FORMAT

[1] WHEN:UT:CMP=a,{MATE|PRIM},ADDR=b,OPC=f
 [,HIT=h][,FOREVER][,NOPRINT][,UTILFLAG=i]{!|;}

[2] WHEN:UT:CMP=a,{MATE|PRIM},{FUNC=c|SYMIDX=d}
 [,OFF=e,OPC=f][,HIT=h][,FOREVER][,NOPRINT][,UTILFLAG=i]{!|;}

[3] WHEN:UT:CMP=a,{MATE|PRIM},TIME=g
 [,HIT=h][,FOREVER][,NOPRINT][,UTILFLAG=i]{{|;}

[4] WHEN:UT:CMP=a,{MATE|PRIM},ADRS=j[,AMSK=k],[DATA=l][,DMSK=m][,DATAH=n][,DHMSK=o]
 [,OPER=p][,OMSK=q][,HIT=h][,FOREVER][,NOPRINT][,UTILFLAG=i]{!|;}

 [,HIT=h][,FOREVER][,NOPRINT][,UTILFLAG=i]{{|;}
WHEN:UT:_CMP=a, (MATE|PRIM), DABR=s
[, HIT=h] [, FOREVER] [, NOPRINT] [, UTILFLAG=i]{!|;}

3. EXPLANATION OF MESSAGE

FOREVER
  = Allow the WHEN to be hit an unlimited number of times. If neither HIT=h nor FOREVER is specified, the hit count ‘h’ defaults to 1.

MATE
  = Execute this input message in the standby CMP.

NOPRINT
  = Suppress the WHEN:UT-CMP output message.

PRIM
  = Execute this input message in the active CMP.

a
  = CMP number.

b
  = Absolute address at which to set the breakpoint.

c
  = Symbolic name of the function. The name is entered as a string of up to 15 characters, enclosed in double quotation marks. If the symbol name is greater than 15 characters the symbol index number ‘d’ must be used to enter this input message using symbolics. The function's symbol index number can be determined by using the DUMP:UT-SYMID input message.

d
  = Symbol index number of function. The symbol index can be determined for this processor by using the DUMP:UT-SYMID input message.

e
  = Offset to be added to the function address in bytes (0 - 65535).

f
  = Two bytes of opcode that is expected at address ‘b’ or within function ‘c’ or ‘d’ at offset ‘e’.
 Opcode that is expected at address ‘b’ or within function ‘c’ or ‘d’ at offset ‘e’. The following opcode size rules must be used:
  - If switch CM complex is Model 2 or earlier, the opcode must be a two byte opcode.
  - If switch CM complex is Model 3, the opcode must be a four byte opcode.

g
  = Time interval, in milliseconds, at which the timer expires (1 - 4,294,967,295).

h
  = Number of times the WHEN may be activated before being automatically inhibited. If neither HIT=h nor FOREVER is specified, the hit count ‘h’ (1 - 32,767, default = 1).

i
  = User-specified ID of the WHEN input message if it is unique within the system. If the WHEN ID number is not contained within the numeric range of 0 through 127 and there are fewer than 45 total WHEN input messages in the system, or if the WHEN input message is not unique, the system will automatically assign the next available WHEN ID number and no error message will be printed.

j
  = Address that is to be compared on every bus cycle with the address actually on the bus. This value is used with the address mask ‘k’ to provide an address range for the comparison. The three lower address bits cannot be a range.

k
  = Mask value for the address field ‘j’. A “1” bit is a don’t care indication for that bit. A “0” bit indicates that the address comparison between the bus and the contents of the address field ‘j’ must match for that bit.

note: The last three bits are always 0.
l = Data low that is to be compared on every bus cycle with the data actually on the bus. This value is used with the data mask 'm' to provide a range of data values for the comparison.

m = Mask value for the data low field 'l'. A "1" bit is a don't care indication for that bit. A "0" bit indicates that the data comparison between the bus and the contents of the data field 'l' must match for that bit.

Note: The Data low is the bits 0-31 of a 64 bit data bus. Data sizes less than 32 bits must be specified in the correct byte lane for the matcher to function correctly.

n = Data high that is to be compared on every bus cycle with the data actually on the bus. This value is used with the data high mask 'o' to provide a range of data values for the comparison.

o = Mask value for the data field 'n'. A "1" bit is a don't care indication for that bit. A "0" bit indicates that the data comparison between the bus and the contents of the data field 'n' must match for that bit.

Note: The Data high are bits 32-63 of a 64 bit data bus. Data sizes less than 32 bits must be specified in the correct byte lane for the matcher to function correctly.

p = Type of bus operation that is to be compared on every bus cycle with the type of operation actually being performed on the bus. This value is used with the operation mask 'q' to provide a range of operations for the comparison.

Note: To set the WHEN for a basic read or write operation the OMSK field 'q' can be set to OMSK=hhffffff7x, where x is the invert of the size of the operation (that is h'c = byte, h'a = short, h'6 = long word, h'e = double long word, and h'b = burst or 256 bit). The OPER field would need to be set to OPER=hh'0000000x for a read and OPER=hh'0000000x for a write and 'x' would match the size indicated in the invert of the OMSK field (that is h'3 = byte, h'5 = short, h'9 = long word, h'1 = double long word, and h'4 = burst). Refer to the global header regs/RGa74mat.h for further information.

q = Mask value for the operation field 'p'. A "1" bit is a don't care indication for that bit. A "0" bit indicates that the comparison between the operation being performed on the bus and the contents of the operation field 'p' must match for that bit.

r = The address of the instruction access to be trapped on.

Note: This value is passed directly to the instruction address breakpoint register. It contains the instruction address to be compared against bits 0-29, breakpoint enable bit (UT ALLOW forces this to active) bit 30, and the translation enable bit 31. Refer to the global header regs/RG750mis.h for further information.

s = The address and the type of data access to be trapped on. The lowest 3 bits are zero regardless of the value provided.

Note: This value is passed directly to the data address breakpoint register. It contains the data address to be compared against bits 0-28, the translation enable bit 29, the data write enable bit 30, and the data read enable bit 31. To set the WHEN for a basic read operation the value should be h'xxxxxxy where x is the address to match, and y = h'x101 (x being the last of the address, translation is enabled, data
write turned off, and data read turned on). For a write operation the address needs
to be defined and \( y = h'x110 \) can used. Refer to the global header
regs/RG750mis.h for further information.

4. SYSTEM RESPONSE

Refer to the APP:UT-IM-REASON appendix in the Appendixes section of the Input Messages manual.

5. REFERENCES

Input Message(s):

ALW:UT-CMP
CLR:UT-CMP
COPY:UT-CMP
DUMP:UT-CMP
DUMP:UT-SYMID
ELSE:UT-CMP
END:UT-CMP
EXC:UT-CMP
IF:UT-CMP
IF:UT-CMP-ENDIF
INH:UT-CMP
LOAD:UT-CMP
OP:UT-CMP

Output Message(s):

WHEN:UT-CMP

Input Appendix(es):

APP:UT-IM-REASON

Other Manual(s):

System Maintenance Requirements and Tools
Audits
WHEN:UT-MCTSI-PI

Software Release: 5E14 and later
Command Group: SFTUTIL
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Format 1 requests that a temporary generic utility WHEN breakpoint be defined using an address of an application program in the specified packet interface unit (PI).

Format 2 requests that a temporary generic utility WHEN breakpoint be defined using the symbolic address of an application program in the specified PI. Format 3 requests that a generic utility timed WHEN be defined in the specified PI. All formats give the user the ability to sequence through a defined list of generic utility input messages at a given point in the application code (breakpoint), or at an approximate time interval (timed).

Note: This input message is only supported on PIs of the PI2 hardware type.

Note: Generic utility WHEN input messages may be removed from processors by various software maintenance/recovery activities (that is, pumps, initializations, audits, and so forth).

WARNING: The user is responsible for any effects on system operation that result from the use of this input message. Know the effects of the message before using it.

2. FORMAT

[1] WHEN:UT:MCTSI=a-b,PI,ADDR=c,OPC=g[,HIT=i][,FOREVER][,NOPRINT][,UTILFLAG=j]{!|;}

[2] WHEN:UT:MCTSI=a-b,PI,{FUNC=d|SYMIDX=e}[,OFF=f,OPC=g][,HIT=i][,FOREVER][,NOPRINT][,UTILFLAG=j]{!|;}

[3] WHEN:UT:MCTSI=a-b,PI,TIME=h[,HIT=i][,FOREVER][,NOPRINT][,UTILFLAG=j]{!|;}

3. EXPLANATION OF MESSAGE

FOREVER = Allow the WHEN to be activated an unlimited number of times. If neither HIT=i nor FOREVER is specified, the hit count 'i' defaults to 1.

NOPRINT = Suppress the WHEN:UT-MCTSI output message.

a = Switching module (SM) number.

b = Side of the module controller/time-slot interchange (MCTSI).

c = Absolute address at which to set the breakpoint.

d = Symbolic name of the function. The name is entered as a string of up to 15 characters, enclosed in double quotation marks. If the symbol name is greater than 15 characters the symbol index
number 'e' must be used to enter this input message using symbolics. The function's symbol index number can be determined by using the DUMP:UT-SYMID input message.

\[ e = \text{Symbol index number of function. The symbol index can be determined for this processor by using the DUMP:UT-SYMID input message.} \]

\[ f = \text{Offset to be added to the function address in bytes (0 - 65535).} \]

\[ g = \text{Two bytes of opcode that is expected at address 'c' or within function 'd' or 'e' at offset 'f'.} \]

\[ h = \text{Time interval, in milliseconds, at which the timer expires (1 - 4,294,967,295).} \]

\[ i = \text{Number of times the WHEN may be activated before being automatically inhibited. If neither HIT=i nor FOREVER is specified, the hit count 'i' (1 - 32,767, default is 1).} \]

\[ j = \text{User-specified ID of the WHEN input message if it is unique within the system. If the WHEN ID number is not contained within the numeric range of 0 through 127 and there are fewer than 45 total WHEN input messages in the system, or if the WHEN message is not unique, the system will automatically assign the next available WHEN ID number and no error message will be printed.} \]

### 4. SYSTEM RESPONSE

Refer to the APP:UT-IM-REASON appendix in the Appendixes section of the Input Messages manual.

### 5. REFERENCES

Input Message(s):

- ALW:UT-MCTSI-PI
- CLR:UT-MCTSI-PI
- COPY:UT-MCTSI-PI
- DUMP:UT-MCTSI-PI
- DUMP:UT-SYMID
- ELSE:UT-MCTSI-PI
- END:UT-MCTSI-PI
- EXC:UT-MCTSI-PI
- IF:UT-MCTSI-PI
- IF:UT-MCTSI-PE
- INH:UT-MCTSI-PI
- LOAD:UT-MCTSI-PI
- OP:UT-MCTSI-PI

Output Message(s):

- WHEN:UT-MCTSI-PI

Input Appendix(es):

- APP:UT-IM-REASON

Other Manual(s):

- 235-105-110 System Maintenance Requirements and Tools
- 235-600-400 Audits
WHEN:UT-PSUPH-A

Software Release: 5E14 only
Command Group: SFTUTIL
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Format 1 requests that a temporary generic utility WHEN breakpoint be defined using an address of an application program in the specified packet switch unit protocol handler (PSUPH).

Format 2 requests that a temporary generic utility WHEN breakpoint be defined using the symbolic address of an application program in the specified PSUPH. Format 3 requests that a generic utility timed WHEN be defined in the specified PSUPH. All formats give the user the ability to sequence through a defined list of generic utility input messages at a given point in the application code (breakpoint), or at an approximate time interval (timed).

Note: This input message is only supported on PSUPHs of the PH3/PH4 and later hardware types (that is, not PH2 hardware types).

This message may be used together with any of the other PSUPH generic utility input messages (refer to the input messages listed in the REFERENCES section).

If this message is used together with other generic utility messages, the END:UT-PSUPH input message may be used to signal the end of the series of messages.

Note: Generic utility WHEN input messages may be removed from processors by various software maintenance recovery activities (that is, pumps, initializations, audits, and so forth).

WARNING: The user is responsible for any effects on system operation that result from the use of this input message. Know the effects of the message before using it.

2. FORMAT

[1] WHEN:UT:PSUPH=a-b-c-d,ADDR=e,OPC=i
   [,HIT=k][,FOREVER][,NOPRINT][,UTILFLAG=l]{!|;}

[2] WHEN:UT:PSUPH=a-b-c-d,{FUNC=f|SYMIDX=g}
   [,OFF=h,OPC=i][,HIT=k][,FOREVER][,NOPRINT][,UTILFLAG=l]{!|;}

   [,HIT=k][,FOREVER][,NOPRINT][,UTILFLAG=l]{!|;}

3. EXPLANATION OF MESSAGE

FOREVER = Allow the WHEN to be activated an unlimited number of times. If neither HIT=k nor FOREVER is specified, the hit count 'k' defaults to 1.

NOPRINT = Suppress the WHEN:UT-PSUPH output message.
= Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

b = Unit number (always 0).

c = Shelf number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

d = Slot number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

e = Absolute address at which to set the breakpoint.

f = Symbolic name of the function. The name is entered as a string of up to 15 characters, enclosed in double quotation marks. If the symbol name is greater than 15 characters the symbol index number 'g' must be used to enter this input message using symbolics. The function's symbol index number can be determined by using the DUMP:UT-SYMID input message.

g = Symbol index number of function. The symbol index can be determined for this processor by using the DUMP:UT-SYMID input message.

h = Offset to be added to the function address in bytes (0 - 65535).

i = Two bytes of opcode that is expected at address 'e' or within function 'f' or 'g' at offset 'h'.

j = Time interval, in milliseconds, at which the timer expires (1 - 4,294,967,295).

k = Number of times the WHEN may be activated before being automatically inhibited. If neither HIT=i nor FOREVER is specified, the hit count 'l' (1 - 32,767, default is 1).

l = User-specified ID of the WHEN input message if it is unique within the system. If the WHEN ID number is not contained within the numeric range of 0 through 127 and there are fewer than 45 total WHEN input messages in the system, or if the WHEN input message is not unique, the system will automatically assign the next available WHEN ID number and no error message will be printed.

4. SYSTEM RESPONSE

Refer to the APP:UT-IM-REASON appendix in the Appendixes section of the Input Messages manual.

5. REFERENCES

Input Message(s):

ALW:UT-PSUPH
CLR:UT-PSUPH
COPY:UT-PSUPH
DUMP:UT-PSUPH
DUMP:UT-SYMID
ELSE:UT-PSUPH
END:UT-PSUPH
EXC:UT-PSUPH
IF:UT-PSUPH
IF:UT-PSUPH-END
INH:UT-PSUPH
LOAD:UT-PSUPH
OP: UT-PSUPH

Output Message(s):
WHEN: UT-PSUPH

Input Appendix(es):
APP: RANGES
APP: UT-IM-REASON

Other Manual(s):
235-105-110  System Maintenance Requirements and Tools
235-600-400  Audits
WHEN:UT-PSUPH-B

Software Release: 5E15 only
Command Group: SFTUTIL
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Format 1 requests that a temporary generic utility WHEN breakpoint be defined using an address of an application program in the specified packet switch unit protocol handler (PSUPH).

Format 2 requests that a temporary generic utility WHEN breakpoint be defined using the symbolic address of an application program in the specified PSUPH. Format 3 requests that a generic utility timed WHEN be defined in the specified PSUPH. Format 4 requests that a generic utility instruction access address WHEN be defined in the specified PSUPH. The instruction access address WHEN input message is only supported in a PSUPH of the PHV5 hardware type. Format 5 requests that a generic utility data address access WHEN be defined in the specified PSUPH. The data address access WHEN input message is only supported in a PSUPH of the PHV5 hardware type. All formats give the user the ability to sequence through a defined list of generic utility input messages at a given point in the application code (breakpoint formats 1 & 2), or at an approximate time interval (timed format 3), the microprocessor fetches the specified instruction (instruction address format 4), or microprocessor detects the specified access on the data address (data access format 5).

Note: This input message is not supported on PSUPHs of the PH2 hardware type.

This message may be used together with any of the other PSUPH generic utility input messages (refer to the input messages listed in the REFERENCES section).

If this message is used together with other generic utility messages, the END:UT-PSUPH input message may be used to signal the end of the series of messages.

Note: Generic utility WHEN input messages may be removed from processors by various software maintenance recovery activities (that is, pumps, initializations, audits, and so forth).

WARNING: The user is responsible for any effects on system operation that result from the use of this input message. Know the effects of the message before using it.

2. FORMAT

[1] WHEN:UT:PSUPH=a-b-c-d,ADDR=e,OPC=i [,HIT=k][,FOREVER][,NOPRINT][,UTILFLAG=l]{{|};

[2] WHEN:UT:PSUPH=a-b-c-d,{FUNC=f|SYMIDX=g} [,OFF=h,OPC=i][,HIT=k][,FOREVER][,NOPRINT][,UTILFLAG=l]{{|};


[4] WHEN:UT:PSUPH=a-b-c-d,IABR=m [,HIT=k][,FOREVER][,NOPRINT][,UTILFLAG=l]{{|};
3. EXPLANATION OF MESSAGE

FOREVER = Allow the WHEN to be activated an unlimited number of times. If neither HIT=k nor FOREVER is specified, the hit count 'k' defaults to 1.

NOPRINT = Suppress the WHEN:UT-PSUPH output message.

a = Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

b = Unit number (always 0).

c = Shelf number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

d = Slot number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

e = Absolute address at which to set the breakpoint.

f = Symbolic name of the function. The name is entered as a string of up to 15 characters, enclosed in double quotation marks. If the symbol name is greater than 15 characters the symbol index number 'g' must be used to enter this input message using symbolics. The function's symbol index number can be determined by using the DUMP:UT-SYMID input message.

g = Symbol index number of function. The symbol index can be determined for this processor by using the DUMP:UT-SYMID input message.

h = Offset to be added to the function address in bytes (0 - 65535).

i = Opcode that is expected at address 'e' or within function 'f' or 'g' at offset 'h'. The following opcode size rules must be used:
   - If PSUPH is a PH[3-4,6,22], PHA, PHV[1-4] hardware type, the opcode must be a two byte opcode.
   - If PSUPH is a PHV5 hardware type, the opcode must be a four byte opcode.

j = Time interval, in milliseconds, at which the timer expires (1 - 4,294,967,295).

k = Number of times the WHEN may be activated before being automatically inhibited. If neither HIT=i nor FOREVER is specified, the hit count 'i' (default is 1).

l = User-specified ID of the WHEN input message if it is unique within the system. If the WHEN ID number is not contained within the numeric range of 0 through 127 and there are fewer than 45 total WHEN input messages in the system, or if the WHEN input message is not unique, the system will automatically assign the next available WHEN ID number and no error message will be printed.

m = The address of the instruction access to be trapped on.

Note: This value is passed directly to the instruction address breakpoint register. It contains the instruction address to be compared against bits 0-29, breakpoint enable bit (UT ALLOW forces this to active) bit 30, and the translation enable bit.
31. Refer to the global header regs/RGppcmis.h for further information.

\[ n \]

= The address and the type of data access to be trapped on. The lowest 3 bits are zero regardless of the value provided.

Note: This value is passed directly to the data address breakpoint register. It contains the data address to be compared against bits 0-28, the translation enable bit 29, the data write enable bit 30, and the data read enable bit 31. To set the WHEN for a basic read operation the value should be h'xxxxxy where x is the address to match, and y = h'w101 (w being the last of the address i.e bit 28, translation is enabled, data write turned off, and data read turned on). For a write operation the address needs to be defined and y = h'w110 can be used. Refer to the global header regs/RGppcmis.h for further information.

4. SYSTEM RESPONSE

Refer to the APP:UT-IM-REASON appendix in the Appendixes section of the Input Messages manual.

5. REFERENCES

Input Message(s):

- ALW:UT-PSUPH
- CLR:UT-PSUPH
- COPY:UT-PSUPH
- DUMP:UT-PSUPH
- DUMP:UT-SYMID
- ELSE:UT-PSUPH
- END:UT-PSUPH
- EXC:UT-PSUPH
- IF:UT-PSUPH
- IF:UT-PSUPH-END
- INH:UT-PSUPH
- LOAD:UT-PSUPH
- OP:UT-PSUPH

Output Message(s):

- WHEN:UT-PSUPH

Input Appendix(es):

- APP:RANGES
- APP:UT-IM-REASON

Other Manual(s):

- 235-105-110 System Maintenance Requirements and Tools
- 235-600-400 Audits
WHEN:UT-PSUPH-C

**Software Release:** 5E16(1) and later
**Command Group:** SFTUTIL
**Application:** 5
**Type:** Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Format 1 requests that a temporary generic utility WHEN breakpoint be defined using an address of an application program in the specified packet switch unit protocol handler (PSUPH).

Format 2 requests that a temporary generic utility WHEN breakpoint be defined using the symbolic address of an application program in the specified PSUPH.

Format 3 requests that a generic utility timed WHEN be defined in the specified PSUPH.

Format 4 requests that a generic utility instruction access address WHEN be defined in the specified PSUPH. The instruction access address WHEN input message is only supported in a PSUPH of the PHV5, PHV6, PH31, PHA2, or PHE2 hardware type.

Format 5 requests that a generic utility data address access WHEN be defined in the specified PSUPH. The data address access WHEN input message is only supported in a PSUPH of the PHV5, PHV6, PH31, PHA2, or PHE2 hardware type.

All formats give the user the ability to sequence through a defined list of generic utility input messages at a given point in the application code (breakpoint formats 1 & 2), or at an approximate time interval (timed format 3), the microprocessor fetches the specified instruction (instruction address format 4), or microprocessor detects the specified access on the data address (data access format 5).

This input message is not supported on PSUPHs of the PH2 hardware type.

This message may be used together with any of the other PSUPH generic utility input messages (refer to the input messages listed in the REFERENCES section).

If this message is used together with other generic utility messages, the END:UT-PSUPH input message may be used to signal the end of the series of messages.

Generic utility WHEN input messages may be removed from processors by various software maintenance recovery activities (that is, pumps, initializations, audits, and so forth).

**WARNING:** The user is responsible for any effects on system operation that result from the use of this input message. Know the effects of the message before using it.

2. FORMAT

```
[1] WHEN:UT:PSUPH=a-b-c-d,ADDR=e,OPC=i. . .
   . . .[,HIT=k],[FOREVER],[NOPRINT],[UTILFLAG=l](!|;)

   . . .[,OFF=h,OPC=i][,HIT=k],[FOREVER],[NOPRINT],[UTILFLAG=l](!|;)
```

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      . . .[,HIT=k][,FOREVER][,NOPRINT][,UTILFLAG=1]{!|;}
________________________________________________________

      . . .[,HIT=k][,FOREVER][,NOPRINT][,UTILFLAG=1]{!|;}
________________________________________________________

      . . .[,HIT=k][,FOREVER][,NOPRINT][,UTILFLAG=1]{!|;}
________________________________________________________

3.  EXPLANATION OF MESSAGE

FOREVER  = Allow the WHEN to be activated an unlimited number of times. If neither HIT=k nor FOREVER is specified, the hit count 'k' defaults to 1.

NOPRINT  = Suppress the WHEN:UT-PSUPH output message.

a  = Switching module (SM) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

b  = Packet switching unit (PSU) number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

c  = Shelf number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

d  = Slot number. Refer to the APP:RANGES appendix in the Appendixes section of the Input Messages manual.

e  = Absolute address at which to set the breakpoint.

f  = Symbolic name of the function. The name is entered as a string of up to 15 characters, enclosed in double quotation marks. If the symbol name is greater than 15 characters the symbol index number 'g' must be used to enter this input message using symbolics. The function's symbol index number can be determined by using the DUMP:UT-SYMID input message.

g  = Symbol index number of function. The symbol index can be determined for this processor by using the DUMP:UT-SYMID input message.

h  = Offset to be added to the function address in bytes (0 - 65535).

i  = Opcode that is expected at address 'e' or within function 'f' or 'g' at offset 'h'. The following opcode size rules must be used:
     — If PSUPH is a PH[3-4,6,22], PHA, PHV[1-4] hardware type, the opcode must be a two byte opcode.
     — If PSUPH is a PHV5, PHV6, PH31, PHA2, or PHE2 hardware type, the opcode must be a four byte opcode.

j  = Time interval, in milliseconds, at which the timer expires (1 - 4,294,967,295).

k  = Number of times the WHEN may be activated before being automatically inhibited. If neither HIT=i nor FOREVER is specified, the hit count 'i' (default is 1).
1. User-specified ID of the WHEN input message if it is unique within the system. If the WHEN ID number is not contained within the numeric range of 0 through 127 and there are fewer than 45 total WHEN input messages in the system, or if the WHEN input message is not unique, the system will automatically assign the next available WHEN ID number and no error message will be printed.

m. The address of the instruction access to be trapped on.

This value is passed directly to the instruction address breakpoint register. It contains the instruction address to be compared against bits 0-29, breakpoint enable bit (UT ALLOW forces this to active) bit 30, and the translation enable bit 31. Refer to the global header regs/RGppcmis.h for further information.

n. The address and the type of data access to be trapped on. The lowest 3 bits are zero regardless of the value provided.

This value is passed directly to the data address breakpoint register. It contains the data address to be compared against bits 0-28, the translation enable bit 29, the data write enable bit 30, and the data read enable bit 31. To set the WHEN for a basic read operation the value should be h'xxxxxxxy where x is the address to match, and y = h'w101 (w being the last of the address such as, bit 28, translation is enabled, data write turned off, and data read turned on). For a write operation the address needs to be defined and y = h'w110 can be used. Refer to the global header regs/RGppcmis.h for further information.

4. SYSTEM RESPONSE

Refer to the APP:UT-IM-REASON appendix in the Appendixes section of the Input Messages manual.

5. REFERENCES

Input Message(s):

ALW:UT-PSUPH
CLR:UT-PSUPH
COPY:UT-PSUPH
DUMP:UT-PSUPH
DUMP:UT-SYMID
ELSE:UT-PSUPH
END:UT-PSUPH
EXC:UT-PSUPH
IF:UT-PSUPH
IF:UT-PSUPH-END
INH:UT-PSUPH
LOAD:UT-PSUPH
OP:UT-PSUPH

Output Message(s):

WHEN:UT-PSUPH

Input Appendix(es):

APP:RANGES
Other Manual(s):
235-105-110  System Maintenance Requirements and Tools
235-600-400  Audits
WHEN:UT-SM-A

Software Release: 5E14 - 5E16(1)
Command Group: SFTUTIL
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Format 1 requests that a temporary generic utility breakpoint be defined using and address of an application program in the specified switching module (SM/SM-2000).

Format 2 requests that a temporary generic utility WHEN breakpoint be defined using the symbolic address of an application program in the specified SM/SM-2000.

Format 3 requests that a generic utility timed WHEN be defined in the specified SM/SM-2000.

Format 4 defines a matching WHEN input message. The matching WHEN input message is only supported on SM-2000s.

All formats give the user the ability to sequence through a defined list of generic utility input messages at a given point in the application code (breakpoint), at an approximate time interval (timed), or when a complete match is made on the bus service node (matching).

This message may be used together with any of the other SM/SM-2000 generic utility input messages (refer to the input messages listed in the REFERENCES section).

If this message is used together with other generic utility input messages, the END:UT-SM input message may be used to signal the end of the series of messages.

Generic utility WHEN input messages may be removed from processors by various software maintenance/recovery activities (that is, pumps, initializations, audits, and so forth).

WARNING: The user is responsible for any effects on system operation that result from the use of this input message. Know the effects of the message before using it.

2. FORMAT

   . . .[,NOPRINT][,UTILFLAG=i]{!|;}

   . . .[,HIT=h][,FOREVER][,NOPRINT][,UTILFLAG=i]{!|;}

   . . .[,UTILFLAG=i]{!|;}

   . . .[,OPER=n][,OMSK=o][,HIT=h][,FOREVER][,NOPRINT]. . .
   . . .[,UTILFLAG=i]{!|;}
3. EXPLANATION OF MESSAGE

FOREVER  = Allow the WHEN to be hit an unlimited number of times. If neither HIT=h nor FOREVER is specified, the hit count 'h' defaults to one.

NOPRINT  = Suppress the WHEN:UT-OUT message.

a  = SM/SM-2000 number.

b  = Absolute address at which to set the breakpoint.

c  = Symbolic name of the function. The name is entered as a string of up to 15 characters, enclosed in double quotation marks. If the symbol name is greater than 15 characters the symbol index number 'd' must be used to enter this input message using symbolics. The function's symbol index number can be determined by using the DUMP:UT-SYMID input message.

d  = Symbol index number of function. The symbol index can be determined for this processor by using the DUMP:UT-SYMID input message.

e  = Offset to be added to the function address. The offsets, in bytes, can range from 0-65535.

f  = Two bytes of opcode that is expected at address 'b' or within function 'c' or 'd' at offset 'e'.

g  = Time interval, in milliseconds, at which the timer expires (Upper limit of 4,294,967,295 milliseconds).

h  = Number of times the WHEN may be activated before being automatically inhibited. If neither HIT=h nor FOREVER is specified, the hit count 'h' defaults to one (upper limit of 32767).

i  = User-specified ID of the WHEN input message if it is unique within the system. If the WHEN ID number is not contained within the numeric range of 0 through 127 and there are fewer than 45 total WHEN input messages in the system, or if the WHEN input message is not unique, the system will automatically assign the next available WHEN ID number and no error message will be printed.

j  = Address that is to be compared on every bus cycle with the address actually on the bus. This value is used with the address mask 'k' to provide an address range for the comparison.

k  = Mask value for the address field 'j'. A "1" bit is a don't care indication for that bit. A "0" bit indicates that the address comparison between the bus and the contents of the address field 'j' must match for that bit.

l  = Data that is to be compared on every bus cycle with the data actually on the bus. This value is used with the data mask 'm' to provide a range of data values for the comparison.

m  = Mask value for the data field 'l'. A "1" bit is a don't care indication for that bit. A "0" bit indicates that the data comparison between the bus and the contents of the data field 'l' must match for that bit.

n  = Type of bus operation that is to be compared on every bus cycle with the type of operation actually being performed on the bus. This value is used with the operation mask 'o' to provide a range of operations for the comparison.

To set the WHEN for a basic read or write operation the OMSK field 'o' can be set to
OSMK=h'00x03000, where x is the size of the operation (that is 0 = long word, 1 = byte, 2 = short, and 3 = quad long word). The OPER field would need to be set to OPER=h'00x02000 for a write and OPER=h'00x01000 for a read and ‘x’ would match the size indicated in the OMSK field.

Another example is a mask that looks at the size of the operation, the type of operation (read/write) and ignores MCTSI side switches. Use a mask of 'omsk=h'ffcfcffd'. Refer to the global header smim/SMmp_mthop.h for further information.

- Mask value for the operation field ‘n’. A "1" bit is a don't care indication for that bit. A "0" bit indicates that the comparison between the operation being performed on the bus and the contents of the operation field ‘n’ must match for that bit.

4. SYSTEM RESPONSE

Refer to APP:UT-IM-REASON appendix in the Appendixes section of the Output Messages manual.

5. REFERENCES

Input Message(s):

ALW:UT-SM
CLR:UT-SM
COFY:UT-SM
DUMP:UT-SM
DUMP:UT-SYMID
ELSE:UT-SM
END:UT-SM
EXC:UT-SM
IF:UT-SM
IF:UT-SM-ENDIF
INH:UT-SM
LOAD:UT-SM
OP:UT-SM

Output Message(s):

WHEN:UT-SM

Input Appendix(es):

APP:UT-IM-REASON

Output Appendix(es):

APP:UT-OM-REASON

Other Manual(s):

235-105-110 System Maintenance Requirements and Tools
WHEN:UT-SM-B

Software Release: 5E16(2) and later
Command Group: SFTUTIL
Application: 5
Type: Input

WARNING: INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.

1. PURPOSE

Format 1 requests that a temporary generic utility breakpoint be defined using and address of an application program in the specified switching module (SM/SM-2000).

Format 2 requests that a temporary generic utility WHEN breakpoint be defined using the symbolic address of an application program in the specified SM/SM-2000.

Format 3 requests that a generic utility timed WHEN be defined in the specified SM/SM-2000.

Format 4 defines a matching WHEN input message. The matching WHEN input message is only supported on SM-2000s.

Format 5 defines an instruction access address WHEN input message. The instruction access address WHEN input message is only supported on SMs with a software configuration of CNFG2KPPC.

Format 6 defines a data address access WHEN input message. The data address access WHEN input message is only supported on SMs with a software configuration of CNFG2KPPC.

All formats give the user the ability to sequence through a defined list of generic utility input messages at a given point in the application code (breakpoint Formats 1 and 2), at an approximate time interval (timed Format 3), when a complete match is made on the bus service node (matching Format 4), when the microprocessor fetches the specified instruction (instruction address format 5), or when the microprocessor detects the specified access on the data address (data access Format 6).

This message may be used together with any of the other SM/SM-2000 generic utility input messages (refer to the REFERENCES section).

If this message is used together with other generic utility input messages, the END:UT-SM input message may be used to signal the end of the series of messages.

Generic utility WHEN input messages may be removed from processors by various software maintenance/recovery activities (that is, pumps, initializations, audits, and so forth). During patch recovery operation, a switch command will delete all the when breakpoints and these breakpoints will have to be replanted if needed.

WARNING: The user is responsible for any effects on system operation that result from the use of this input message. Know the effects of the message before using it.

2. FORMAT

[1] WHEN:UT:SM=a,ADDR=b,OPC=f[,HIT=h][,FOREVER][,NOPRINT][,UTILFLAG=i]{!|;}

. . .[,HIT=h][,FOREVER][,NOPRINT][,UTILFLAG=i]{!|;}
3. EXPLANATION OF MESSAGE

FOREVER = Allow the WHEN to be hit an unlimited number of times. If neither HIT=h nor FOREVER is specified, the hit count 'h' defaults to one.

NOPRINT = Suppress the WHEN:UT-SM output message.

a = SM/SM-2000 number.

b = Absolute address at which to set the breakpoint.

c = Symbolic name of the function. The name is entered as a string of up to 15 characters, enclosed in double quotation marks. If the symbol name is greater than 15 characters the symbol index number 'd' must be used to enter this input message using symbolics. The function's symbol index number can be determined by using the DUMP:UT-SYMID input message.

d = Symbol index number of function. The symbol index can be determined for this processor by using the DUMP:UT-SYMID input message.

e = Offset to be added to the function address. The offsets, in bytes, can range from 0-65535.

f = Opcode that is expected at address 'b' or within function 'c' or 'd' at offset 'e'. Valid value(s):

<table>
<thead>
<tr>
<th>If the SM Software Configuration is:</th>
<th>Then:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Not CNFG2KPPC</td>
<td>The opcode must be a two byte opcode.</td>
</tr>
<tr>
<td>CNFG2KPPC</td>
<td>The opcode must be a four byte opcode.</td>
</tr>
</tbody>
</table>

g = Time interval, in milliseconds, at which the timer expires (Upper limit of 4,294,967,295 milliseconds).

h = Number of times the WHEN may be activated before being automatically inhibited. If neither HIT=h nor FOREVER is specified, the hit count 'h' defaults to one (upper limit of 32767).

i = User-specified ID of the WHEN input message if it is unique within the system. If the WHEN ID number is not contained within the numeric range of 0 through 127 and there are fewer than 45 total WHEN input messages in the system, or if the WHEN input message is not unique, the system will
automatically assign the next available WHEN ID number and no error message will be printed.

### j
- Address that is to be compared on every bus cycle with the address actually on the bus. This value is used with the address mask ‘k’ to provide an address range for the comparison.

### k
- Mask value for the address field ‘j’. A “1” bit is a don’t care indication for that bit. A “0” bit indicates that the address comparison between the bus and the contents of the address field ‘j’ must match for that bit.

### l
- Data that is to be compared on every bus cycle with the data actually on the bus. This value is used with the data mask ‘m’ to provide a range of data values for the comparison.

### m
- Mask value for the data field ‘l’. A “1” bit is a don’t care indication for that bit. A “0” bit indicates that the data comparison between the bus and the contents of the data field ‘l’ must match for that bit.

### n
- Type of bus operation that is to be compared on every bus cycle with the type of operation actually being performed on the bus. This value is used with the operation mask ‘o’ to provide a range of operations for the comparison.

To set the WHEN for a basic read or write operation the OMSK field ‘o’ can be set to OMSK=h’00x03000, where x is the size of the operation (that is 0 = long word, 1 = byte, 2 = short, and 3 = quad long word). The OPER field would need to be set to OPER=h’00x02000 for a write and OPER=h’00x01000 for a read and ‘x’ would match the size indicated in the OMSK field. Another example is a mask that looks at the size of the operation, the type of operation (read/write) and ignores MCTSI side switches. Use a mask of ‘omsk=h’ffe000fffd’. Refer to the global header smim/SMmp_mthop.h for further information.

### o
- Mask value for the operation field ‘n’. A “1” bit is a don’t care indication for that bit. A “0” bit indicates that the comparison between the operation being performed on the bus and the contents of the operation field ‘n’ must match for that bit.

### p
- The address of the instruction access to be trapped on.

This value is passed directly to the instruction address breakpoint register. It contains the instruction address to be compared against bits 0-29, breakpoint enable bit (UT ALLOW forces this to active) bit 30, and the translation enable bit 31. Refer to the global header regs/RG750mis.h for further information.

### q
- The address and the type of data access to be trapped on. The lowest 3 bits are zero regardless of the value provided.

This value is passed directly to the data address breakpoint register. It contains the data address to be compared against bits 0-28, the translation enable bit 29, the data write enable bit 30, and the data read enable bit 31. To set the WHEN for a basic read operation the value should be h’xxxxxy where ‘x’ is the address to match, and y = h’x101 (‘x’ being the last of the address, translation is enabled, data write turned off, and data read turned on). For a write operation the address needs to be defined and y = h’x110 can used. Refer to the global header regs/RG750mis.h for further information.

### 4. SYSTEM RESPONSE

Refer to APP:UT-IM-REASON appendix in the Appendixes section of the Output Messages manual.
5. REFERENCES

Input Message(s):

ALW:UT-SM
CLR:UT-SM
COPY:UT-SM
DUMP:UT-SM
DUMP:UT-SYMID
ELSE:UT-SM
END:UT-SM
EXC:UT-SM
IF:UT-SM
IF:UT-SM-ENDIF
INH:UT-SM
LOAD:UT-SM
OP:UT-SM

Output Message(s):

WHEN:UT-SM

Input Appendix(es):

APP:UT-IM-REASON

Output Appendix(es):

APP:UT-OM-REASON

Other Manual(s):
235-105-110  System Maintenance Requirements and Tools
83. WRT
WRT:AMADATA

Software Release: 5E14 and later
Command Group: SFTMGT
Application: 5
Type: Input

1. PURPOSE

Requests that billing data be collected from the switching modules (SMs) and the billing data in the administrative module be written to disk prior to generic retrofit.

The output of this input message is delayed until all of the daily SM billing data has been written to disk (10 - 15 seconds for every 10 equipped SMs in the office, depending on the amount of daily billing to be collected). This input message should not be used if the SMs are in isolation. Check the 141 MCC page to make sure no SM is listed as isolated before proceeding. If an SM is isolated, the CLR:ISOL-SM input message can be used to take it out of isolation. Since writes to disk are not possible when a write request is in progress, the disk writer is in initialization, or the disks are full. This input message should not be used under those circumstances. To determine if a write request is in progress, use the OP:AMA-STATUS input message to determine if one of the shared data segment (SDS) subsegments is nearly full and therefore about to be written to disk. The disk writer is in initialization if a boot is in progress or a version of the INIT:AM-FPI input message has just been invoked. To determine if the disks are 100% full, use the OP:AMA-DISK input message.

2. FORMAT

WRT:AMADATA;

3. EXPLANATION OF MESSAGE

No variables.

4. SYSTEM RESPONSE

NA = No acknowledgement. Automatic message accounting (AMA) option may be incorrect. If the AMA option is correct retry input message.

PF = Printout follows. Followed by a WRT:AMA-DATA output message.

5. REFERENCES

Input Message(s):

CLR:ISOL-SM
INIT:AM-FPI
OP:AMA-DISK
OP:AMA-STATUS

Output Message(s):

CLR:ISOL-SM
INIT:AM-LVL
REPT:AMA-DISK-STO
REPT:AMA-STATUS
WRT: AMA–DATA

Other Manual(s):

Where ‘x’ is the release-specific version of the specified manual.

- 235-105-110  System Maintenance Requirements and Tools
- 235-105-210  Routine Operations and Maintenance
- 235-105-24x  Software Release Retrofit
- 235-190-300  Billing Features and Specifications
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Table 1: TYPES OF TRANSMISSION TESTS